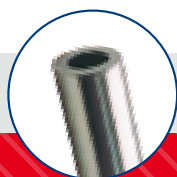


CATÁLOGO 2011 CATALOGUE



PISTONES

AROS

EJES

CAMISAS

PISTONS

RINGS

PINS

LINERS



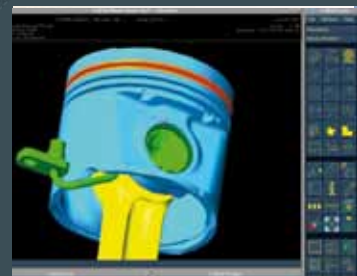
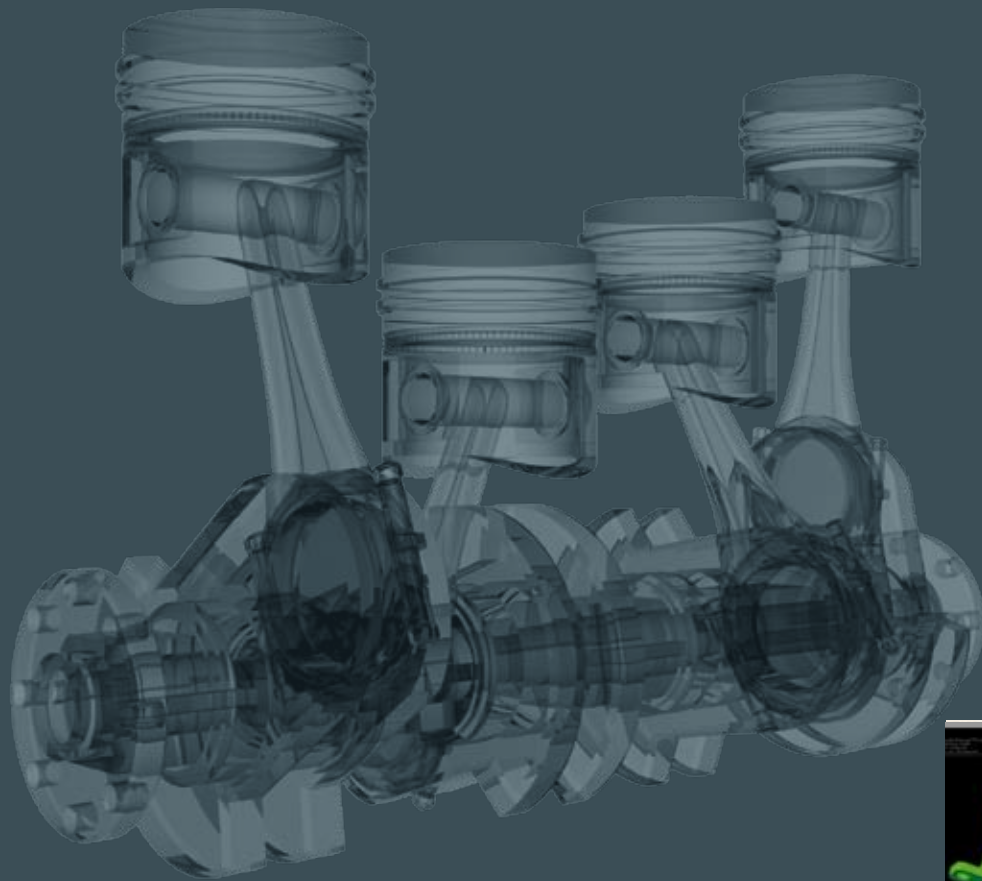
TARABUSI

GRUPO CIE AUTOMOTIVE



TARABUSI

GRUPO **CIE** AUTOMOTIVE



PISTONES

AROS

EJES

CAMISAS

PISTONS

RINGS

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LINERS



PISTONS

SEGMENTS

AXES DE PISTON

CHEMISES

Prólogo

TARABUSI, S. A. GRUPO CIE AUTOMOTIVE

Presenta

El nuevo catálogo 2011 que contiene una amplia gama de pistones, camisas y segmentos cubriendo las aplicaciones principales para automóviles, camiones, autobuses, tractores, motores estacionarios, máquinas industriales y compresores.

En estas páginas se relacionan las referencias de los pistones, dispuestas en orden alfabético de marcas, diámetros y alturas de compresión, con sus correspondientes ejes y aros, así como con sus camisas (referencia y características principales) si procede.

Para cualquier aclaración o consulta no dude en contactar con nuestros equipos Técnico o Comercial.

Agradecemos la confianza depositada en los productos Tarabusi

Introducción

NUESTRO PRODUCTO

La calidad y desarrollo del producto TARABUSI nos ha convertido en la empresa líder en fabricación del sistema EQUIPO-MOTOR.

NUESTROS CLIENTES

Son nuestra razón de ser. Tanto constructores de primera línea, como del mercado mundial de reparación, han confiado y confían en nuestros productos.

NUESTRO SERVICIO

Una característica fundamental en la cual también volcamos nuestros esfuerzos. Un buen equipo humano, unido a la informatización de todos nuestros sistemas, nos permiten ofrecer un servicio rápido, directo y eficaz.

Declaración de Garantía

Los productos TARABUSI responden siempre a un alto grado de calidad y desarrollo, avalado por las certificaciones: ISO 9001 / ISO/TS 16949 / ISO 14001 / OHSAS 18001.

Garantizamos la calidad de nuestros productos, así como su adaptabilidad al estado actual de la técnica. El período de garantía es de 12 meses, a partir de la fecha de montaje de éstos.

El producto reclamado se sustituirá sin cargo, una vez verificado en TARABUSI, que se trata de un fallo de material o fabricación, siempre que la comunicación sea por escrito dentro de un plazo de 30 días, a contar desde la fecha en que ocurrió la avería.

La garantía no es aplicable si el producto TARABUSI ha sido modificado por un tercero o ha sido montado con componentes ajenos a nuestros fabricados. Tampoco será aplicable la garantía si la manipulación y montaje de los productos no se realizan conforme a las indicaciones prescritas.

Tanto el desgaste normal, como los daños por utilización indebida, quedan excluidos de esta garantía.

Contenido de este catálogo

Aunque TARABUSI ha puesto el máximo interés en la preparación de la información contenida en este catálogo, toda aquella se entiende sin compromiso, quedando excluida toda reclamación de indemnización relacionada con ella.

- Los nombres, descripciones, motores, vehículos, etc..., que aparecen en este catálogo, sólo se indican para fines de comparación.
- No podemos responder de modificaciones realizadas por los fabricantes de motores o compresores.
- En caso de duda, dirijan su consulta a nuestro departamento post-venta.
- Los dibujos, figuras y otros datos, sirven únicamente para explicar e ilustrar nuestros productos y no pueden ser utilizados en ningún caso como base para instalación de piezas.
- Agradeceremos toda comunicación de eventuales errores, los cuales serán corregidos en siguientes ediciones.
- Nos reservamos el derecho a modificaciones sin previo aviso.
- Este catálogo sustituye a cualquier otra edición anterior

Protección de la propiedad



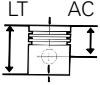

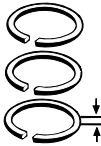

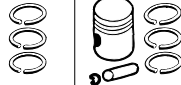

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Con la aparición de este catálogo, pierden su validez todas las ediciones anteriores.

SELECCION DE PRODUCTOS "AT"

Para seleccionar los distintos productos AT, apropiados a cada marca y tipo de motor, nuestro Catálogo propor-

ciona una información muy completa, cuyo detalle es el siguiente.

			Type					
1	2	3	4	5	6	7	8	
Línea para la marca								

Columna (1):

Tipo motor
Tipo vehículo — Años de construcción
Características técnicas de motores y tipos de vehículos.

Columna (2):

Referencia del pistón
Diámetro nominal en milímetros (y pulgadas, si procede).
Cantidad.
Forma del pistón.
Nº de pistón en bruto.

Columna (3):

Altura de compresión (AC)
×
Longitud total del émbolo en milímetros (y pulgadas, si procede). (LT)
En algunos tipos de motores, las alturas de compresión varían según las sobremedidas; la cuantía que figura en el catálogo corresponde al diámetro standard. En estos casos se indicará en la columna (4) "VC".

Columna (4):

Principales características del pistón. Se indican con las abreviaturas siguientes:
Cabeza con anodizado duro. **A**

ALMADUR: Pistón de dilatación controlada mediante chapas de regulación, aplicable en general a cualquier tipo de pistones. (Marca Registrada). **ALM**
AT-MATIC: Pistón de dilatación controlada mediante chapas de regulación, aplicable principalmente a émbolos de gasolina 4t. (Marca Registrada). **ATM**
CINTURAT: Pistón de dilatación controlada mediante anillo de regulación. (Marca Registrada). **CIN**

Pistón con galería para refrigeración. -**G**
Aleación hipereutética. **H**

INSERTO: De hierro austenítico en el 1.º canal. **IN**
INSERTO DOBLE: De hierro austenítico en primer y segundo canal. **IN2**
Pieza de acero insertada en la cabeza del pistón, para evitar daños ocasionados por la ignición. **P**
Lámina de acero insertada en 1.º canal. **R**
Variación de altura de compresión en sobremedidas. **VC**
Casquillo de bronce en el agujero del bulón. **CB**

Columna (5):

Diámetro exterior (Ø)
×
Longitud del eje de émbolo. (L)
En milímetros (y pulgadas, si procede). Cuando el bulón sea fijo a la biela se indicará con la letra **F**.

Columna (6):

Cantidad, tipo y altura de los aros en milímetros (y pulgadas, si procede). Los tipos de los aros se representan al principio del catálogo. Cuando el aro lleva apóstrofo ('), significa que se trata de un material especial.

Forma de la camisa. Cuando junto a las letras indicativas de las dimensiones no aparece el dibujo correspondiente, es válido el anterior.

Columna (7):

Dimensiones, nominal y sobremedidas, a las que se terminan los pistones y aros, en milímetros (y pulgadas, si procede).
Características especiales de la camisa se indican mediante las abreviaturas siguientes:
Camisa nitrurada. **N**
Material especial de alto contenido de carbono. **C**
Camisa con el diámetro interior cromado duro. **CR**
Referencia y dimensiones de la camisa.
A = diámetro exterior.
L = longitud total.
C = diámetro pestaña.
H+F = altura total de pestaña, siendo:
H = altura pestaña
F = altura cortafuegos.

Columna (8):

Referencia juego de aros.
Referencia pistón completo.
Referencia equipo cilindro.

INDICACIONES Y ABREVIATURAS

Las indicaciones y abreviaturas que se dan a título de información, significan:

Air cooled: motor refrigerado por aire.

Also suitable for...: también puede usarse para...

Between bosses: distancia entre moyús del émbolo (espacio de biela).

Cast Iron Cylinder Block: bloque de hierro fundido, para motores, en dos versiones (aleación ligera o hierro fundido).

Carburettor, Carburettor: alimentación del motor por medio de carburador.

cc: centímetros cúbicos (cilindrada del motor).

Combustion bowl Ø: diámetro cámara de combustión.

Compressor: compresor de aire u otro fluido.

Cubic inches: pulgadas cúbicas (cilindrada del motor).

cwt.: quintal (aproximadamente 50 kg).

cyl.: número de cilindros.

Cylinder head ... and ... with corresponding nozzle holder: culata ... y ... con el correspondiente portainyector.

Diesel: motor que funciona mediante el ciclo de ignición por compresión.

Direct Injection Diesel: lo mismo que el anterior, pero con inyección directa del combustible.

Dto.: para motores del mismo tipo que los del párrafo anterior.

Engine: motor.

Exchangeable in sets: intercambiable en juegos completos.

For cast Iron Bores Only: para cilindros de hierro fundido solamente.

From engine ...: desde motor ...

From Engine ... and Engine ...: desde motor ... y motor ...

From Engine ... and ... onwards: desde motor ... y ... en adelante.

From Engine ... to Engine ... and ...: desde motor ... hasta motor ... y ...

From Series ...: desde series ...

Fuel Injection: inyección de combustible (generalmente de gasolina).

HC: alta compresión; para motores opcionales de alta y baja relación de compresión.

Horizontal Engine: motor en posición horizontal.

HP: caballos de vapor (potencia en general, según

especificación original del motor).

Indirect Injection Diesel: motor Diesel con inyección indirecta del combustible.

Industrial: Motor Industrial (no para automóviles).

Injection: la alimentación es por medio de inyector.

KW: kilovatios (potencia en general, según especificación original del motor).

LC: baja compresión; para motores opcionales de baja o alta relación de compresión.

Left Hand Piston: émbolo mano izquierda, para motores con émbolos de dos tipos (mano derecha y mano izquierda).

Light Alloy Cylinder Block: Bloque de aleación ligera, para motores en dos versiones (aleación ligera o hierro fundido).

Ltr.: litros (cilindrada del motor).

Machine piston crown if necessary: para émbolos que deben medirse una vez montados en el motor y mecanizarse la cabeza si fuera necesario de acuerdo con el Manual de Servicio.

Marine: motor marino.

May be mounted in older vehicles, too, when using a cylinder of special material: se puede montar también en motores antiguos, igualmente, cuando se utilizan cilindros de material especial.

Moped: motocicletas con pedales o ciclomotores.

Multi cyl.: motores con número opcional de cilindros.

No oil ring fitted in 5th groove: sin montar aro de engrase en 5º canal.

Normally Aspirated: motor de aspiración normal.

OHV: motor con válvulas en cabeza.

Right Hand Engine Only: motor con giro a derechas solamente.

Right Hand Piston: émbolo mano derecha, para motores con émbolos de dos tipos (mano derecha y mano izquierda).

Sealing rings: juntas tóricas.

See ...: Ver ...

Ser. ... upward: series mayores que ...

Series from ...: series desde ...

Series to ...: series hasta ...

Spanish Engines: estos motores se fabrican en España (cuando el mismo motor se fabrica en otros países).

Stamo: motor estacionario.

Stroke: carrera del émbolo.

To engine ...: hasta motor ...

To series...: hasta series ...

To use with ... and ... cylinder head: para usar con ... y ... culata.

ton.: tonelada inglesa o métrica.

Transfer: ventana de transferencia.

Transformation: transformación del motor de serie.

Turbocharged: motor turboalimentado.

Turbocharged-intercooled: motor turboalimentado con refrigeración del aire de carga.

Vertical engine: motor en posición vertical.

V Form: motor con cilindros en forma de V.

V8: motor con 8 cilindros en V.

Water cooled: motor refrigerado por agua.

With con-rod 256 mm: motor con biela de 256 mm de longitud.

With cylinder head gasket 1,4 mm: motor con junta de culata de 1,4 mm de espesor.

With pin Ø: con eje de émbolo de diámetro.

Without valve pockets, also replacement for pistons with valve pockets: émbolos sin fresaduras

de válvulas, también sustituible para émbolos con fresaduras de válvulas.

16:1/8.5:1: relación de compresión.

Mar. 1975 onwards: motores fabricados a partir de marzo 1975.

Sept. 1974-77: motores fabricados desde septiembre 1974 hasta el año 1977.

To Sept. 1977: motores fabricados hasta septiembre 1977.

To 1980: motores fabricados hasta 1980.

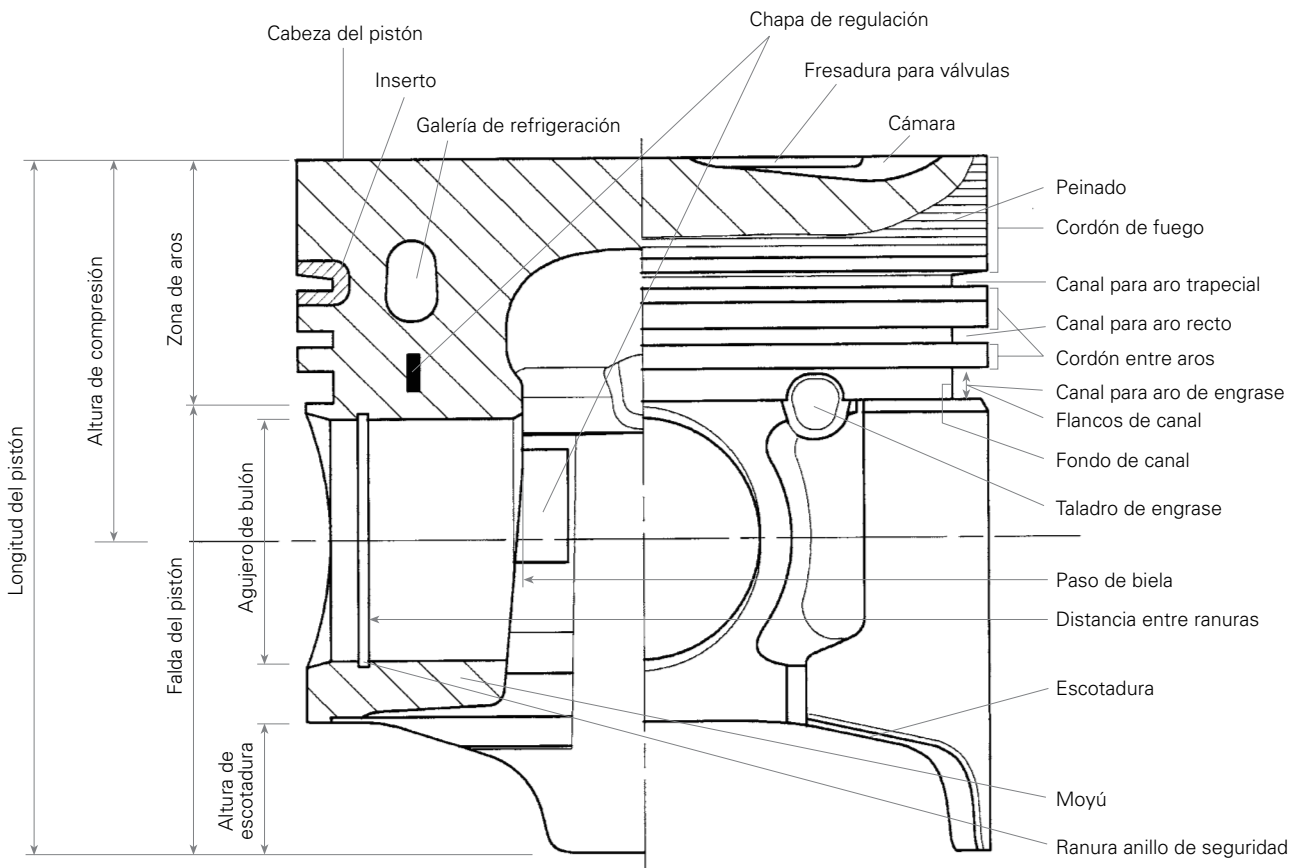
1983-85: motores fabricados entre los años 1983-1985.

1986 onwards: motores fabricados a partir del año 1986.

1973-Aug. 1978: motores fabricados desde el año 1973 hasta agosto de 1978.

INFORMACIONES TECNICAS SOBRE NUESTROS PRODUCTOS

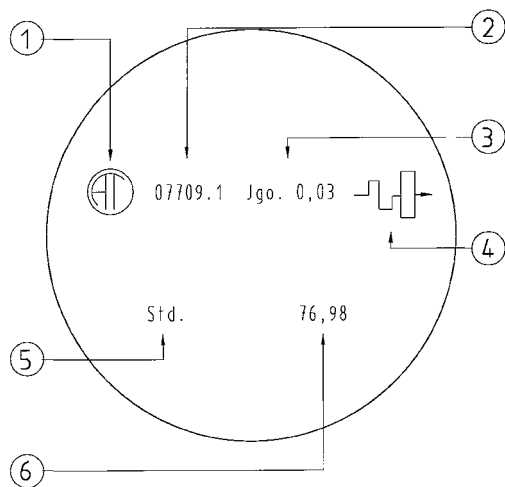
Denominaciones / Dimensiones del pistón



Marcas en la cabeza del émbolo


Los émbolos están marcados de acuerdo con la figura siguiente:

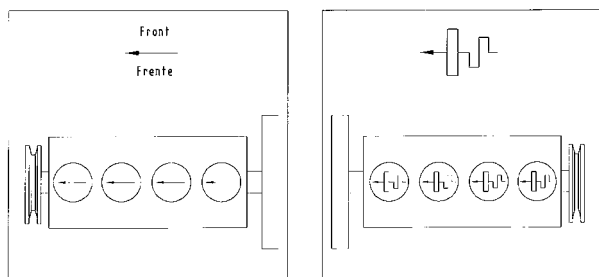
1. TARABUSI. Marca Registrada.
2. Referencia del pistón.
3. Holgura o juego entre émbolo y cilindro.
4. Posición de montaje, si fuera necesario (flecha apuntando hacia el volante).
5. Standard o sobremedida.
6. Diámetro real



Según nuestro ejemplo, el taller rectificador de motores debe tener en cuenta que el diámetro interior del cilindro, en el bloque, debe mecanizarse a: $76,98 + 0,03 = 77,01$ milímetros mínimo, a fin de que un pistón como el indicado se monte con la holgura adecuada.

Cuando los pistones se sirven para montarse con camisas terminadas, no se indica la holgura.

La posición de montaje , que indica hacia el volante del motor, algunas veces se expresa mediante \rightarrow FRENTE \rightarrow , que indica la parte frontal del motor, o también por ESC \rightarrow , que indica el lado de escape, en motores de dos tiempos.



Aros

Algunos de los tipos más usuales se presentan en las figuras correspondientes, con sus números de identificación. Cuando los aros se sirven separados de los pistones, el usuario procederá a montar cada uno en su canal correspondiente (1°, 2°, 3°, ...), tal como se indica en el envase, y la marca "TOP" irá siempre situada hacia la cabeza del pistón. No se deben montar aros cromados en camisas cromadas.

Los aros de diámetro superior a 130 mm no son de suministro normal, por lo que deben ser siempre motivo de consulta previa.

Ejes de pistón

Pueden ser de dos clases:

- Ejes fijados a la biela (letra F).
- Ejes flotantes retenidos por anillos (sin letra).

Cada pistón se sirve con su eje correspondiente, habiéndose dispuesto ajustes de diferentes clases, según los distintos tipos de motores. Por este motivo, se hallará algunas veces una cierta diferencia de ajuste cuando se monta un eje con huelgo o con interferencia.

Ultimamente ha habido una clara tendencia a diseñar los ejes con un ajuste muy ligero (con holgura), ya que la perfección geométrica y el buen acabado superficial, tanto en el pistón como en su eje, pueden obtenerse con los métodos modernos de producción de que se dispone. Particularmente, nuestro sistema de "precisionado" produce un alojamiento de eje en el pistón con un acabado de espejo y una rugosidad casi nula. Por consiguiente, no debe extrañar si algunas veces se tiene la sensación de que los ejes entran muy holgados en los pistones, sobre todo en los tipos de eje fijo a la biela.

Camisas

Las camisas secas o forros, y las húmedas, pueden identificarse fácilmente por las figuras correspondientes. Las dimensiones principales de cada camisa figuran también en la parte descriptiva. Con respecto al diámetro interior, se considerarán los puntos siguientes:

- Los números de referencia de las camisas que empiezan con 40,41,42 ó 43, indican camisas con el interior terminado.
- Los números de referencia de la camisa que empiezan con 44, 45 ó 46, indican camisas con el interior semi-terminado (sobreespesor en diámetro interior de aproximadamente 0,5 milímetros); las operaciones finales a realizar posteriormente al montaje son: mandrinado y bruñido.

- Los números de referencia de las camisas que empiezan con 47, indican camisas con el interior preacabado (sobreespesor en diámetro interior de aproximadamente 0,05 milímetros); la operación final a realizar posteriormente al montaje es el bruñido.

Anillos de retención

Los anillos de retención, bien sean de tipo Seeger o de alambre, según el modelo del motor, también se entregan con los pistones completos; no se deben distorsionar ni cambiar los anillos durante el montaje. Usar siempre tenazas especiales para instalar los anillos de retención en los alojamientos.

Juntas tóricas

Si se usan juntas tóricas de un material o unas dimensiones distintas a las originales, la camisa puede deformarse y dar origen a un agarrotamiento del pistón.

Materiales

Con el fin de cumplir todos los requisitos que exige cada motor, se han seleccionado en cada caso los materiales más idóneos, desde los más normales hasta los más complejos. Entre estos últimos figuran las aleaciones hipereutécticas para pistones, aleaciones de grafito esférico templadas y revenidas para aros, y aceros de alta aleación cementados para ejes de pistón. Todas las aleaciones de aluminio y de hierro se producen en nuestras fundiciones especiales, utilizando los métodos de fusión, colada e inspección más modernos.

COMO EFECTUAR UN PEDIDO

Los **pistones desnudos** se identifican y se piden por su marca y número de referencia. Si el diámetro solicitado no es el nominal, se indicará correctamente su sobremedida (cuando la sobremedida es en pulgadas, aparece siempre un cero después del punto; cuando la sobremedida es en milímetros, aparece siempre un dígito cualquiera después del punto).

Las **camisas** se identifican y se piden igualmente por su marca y número de referencia (1^{er} dígito: 4).

Los **pistones completos** (pistón + aros + eje + anillos de retención) se identifican y piden por su número de referencia (1^{er} dígito: 6).

Los **juegos de aros** se identifican igualmente por su referencia (1^{er} dígito: 7).

El conjunto de un pistón con sus aros, eje, anillos de retención, camisa y sus juntas tóricas, si procede, forma el **equipo cilindro** que se identifica y pide por su número de referencia (1^{er} dígito: 5).

Ejemplos de pedido:

- **Pistón** Perkins ref. 90845.2
- **Pistón** Seat ref. 07352.4, .40
- **Camisa** Pegaso ref. 4068934
- **Pistón completo** Ford ref. 6243204
- **Pistón completo** Ford ref. 6243215
- **Juego de aros** Peugeot ref. 7221200
- **Juego de aros** Peugeot ref. 7221222
- **Equipo cilindro** Peugeot ref. 5457502

Productos pedidos

Pistón desnudo a diámetro standard (Ø 98,476).

Pistón desnudo a sobremedida de +0,40 mm (Ø 73,4).

Camisa solamente (con sus juntas tóricas, si procede).

Un pistón con sus aros, eje y anillos de retención a diámetro standard (Ø 80).

Un pistón con sus aros, eje y anillos de retención a sobremedida de +0,50 mm (Ø 80,5).

Juego de 3 aros: uno tipo 608', uno tipo 651' y uno tipo 533 a diámetro standard (Ø 94).

Juego de 3 aros: uno tipo 608', uno tipo 651' y uno tipo 533 a sobremedida de 0,40 mm (Ø 94,40).

Un pistón con su eje con sus dos anillos de retención, un juego de 4 aros y una camisa (con sus juntas tóricas si procede).

INSTRUCCIONES DE MONTAJE

Para conseguir los mejores resultados de nuestros equipos, debe prestarse una especial atención a las instrucciones de montaje, ya que la vida de las piezas depende en gran medida de la forma en que se han montado y ajustado.

Todas las piezas entregadas están fabricadas con materiales seleccionados, y mecanizadas con las dimensiones, tolerancias y huelgos correctos; las piezas entregadas como conjuntos deberán instalarse sin intentar mezclar las de un equipo con las de otro.

Salvo para reparaciones generales, normalmente no es necesario desmontar el motor completo del bastidor para sustituir aros, pistones o camisas. Después de desmontar la culata y el cárter, deben poderse quitar los casquillos del pie de biela, y extraer el conjunto del pistón (junto con la biela) de las camisas desgastadas. Varios golpes hacia arriba en el fondo de las viejas camisas suelen ser suficientes para aflojarlas a fin de que puedan sacarse hacia arriba; usar un extractor de camisas especial si fuera preciso.

Para desmontar un eje que se encuentra muy ajustado, caliéntese el pistón en aceite caliente; no forzar

el eje, ya que éste puede distorsionar al pistón. Una vez que los pistones han sido montados (siempre usar tenazas especiales para insertar los anillos de retención y los aros), asegurarse de que los pistones están correctamente alineados con el pie de biela. Para la inserción del conjunto del pistón en el cilindro, utilizar un buen zuncho para aros, con el fin de evitar posibles roturas de éstos, y obligar al pistón con ligeros golpes para evitar que se dañen los cordones.

Las camisas nuevas deben compararse cuidadosamente con las que se hayan extraído del motor, para ver si son del tipo adecuado, especialmente en lo que se refiere a la situación de las gargantas de las juntas tóricas y a la forma de la pestaña.

Límpiese todo el óxido e incrustaciones de las caras de asiento en el bloque, y de los conductos de agua. Límpiese con un trapo las superficies de contacto de las camisas nuevas, y también las juntas tóricas de goma u otras juntas, con el fin de insertar las camisas; untar las camisas con aceite para ayudar a la inserción, asegurándose que las juntas tóricas están en sus gargantas. Antes de introducir las camisas secas, limpiar las superficies exteriores perfectamente y quitar las rebabas presentes, bruñiendo a mano si es preciso; introducir las camisas a presión y medir la distorsión.

Las superficies de apoyo deben estar perfectamente planas y perpendiculares con los cilindros.

CONDICIONES DE VENTA

Nuestras ofertas se entregan sin compromiso. A falta de nuestra aprobación por escrito, todas las condiciones indicadas en el pedido del comprador y que se desvíen de las estipuladas, no serán reconocidas por nosotros. Nos reservamos el derecho de entregar hasta el 10% en defecto o en exceso de la cantidad pedida, cuando los pedidos entregados no proceden de nuestras existencias de almacén, sino que han sido fabricados expresamente; en este caso, podemos solicitar que el pedido sea superior a una cantidad mínima.

Nuestras posibilidades en efectuar las entregas están sujetas a reserva en todos los casos; los plazos de entrega se observarán en todo lo posible, sin compromiso formal por nuestra parte. No podemos aceptar penalizaciones por demoras en las entregas. El período considerado como plazo de entrega comienza al recibo del pedido en firme (una vez aclarados todos los puntos), y termina cuando la mercancía está dispuesta para embarque.

Nuestros precios cotizados son estrictamente netos, embalaje normal incluido, y las mercancías se facturan a los precios vigentes en la fecha de la entrega. Nos reservamos el derecho de regular nuestros precios en el caso de variaciones en los costos de materiales, jornales y otros. Los embalajes especiales de madera y materiales de protección se cargan por separado y tampoco se acepta su devolución. Todos los riesgos de transporte y deterioros incidentales se hallan sujetos a la responsabilidad del propio comprador.

Las condiciones de pago se fijan individualmente; normalmente, el comprador abrirá una carta de crédito

irrevocable a nuestro favor en un Banco español nombrado por nosotros, permitiendo envíos parciales y transbordos; los atrasos en los pagos devengarán los intereses vigentes en ese momento. Las mercancías entregadas, siguen siendo de nuestra propiedad hasta que el comprador cumpla con todas sus obligaciones en cuanto a pagos y demás condiciones convenidas.

El comprador se hace responsable sobre la legalidad del diseño que nosotros efectuemos sobre: Planos, muestras, croquis, etc., que nos hayan sido entregados. Los modelos, coquillas, utillajes, etc., se cobrarán por separado y seguirán siendo de nuestra propiedad aún cuando hayan sido costeados en parte por el comprador; esto también se aplica a cierto tipo limitado de piezas que, aún referenciadas en este Catálogo, no pueden servirse sin cargar algunos gastos por utillajes especiales. En estos casos es de prever cierta demora en las entregas correspondientes.

Ante la inexistencia de una reclamación inmediata y certificada por escrito, se considerarán las mercancías como formalmente aceptadas. Referente a especificaciones técnicas, solamente nos comprometemos a respetar nuestros diseños y normas. Las mercancías correctamente pedidas y suministradas no pueden ser devueltas a origen; toda excepción precisa de nuestro consentimiento por escrito.

En caso de litigio sobre cualquier asunto relacionado con la venta de nuestros productos, el comprador admite la competencia de los Tribunales de Bilbao, o de los Tribunales de la capital del país comprador, de acuerdo con nuestra elección.

Todos los impuestos, tasas, gravámenes, etc., que se deriven de la venta de nuestros productos, tal y como se indica en estas condiciones de venta, son a cargo del comprador.

GAMA DE PRODUCTOS DE CALIDAD TARABUSI

PISTONES

Se fabrican fundamentalmente en aleación eutéctica aluminio-silicio (AT 12), de bajo coeficiente de dilatación, elevada resistencia incluso a las temperaturas de funcionamiento y excelente comportamiento al deslizamiento, empleándose en motores de gasolina y Diesel, y en compresores. En aplicaciones en las que se necesita un coeficiente de dilatación menor (motores de gasolina 2 tiempos con cilindro de hierro), o una mayor resistencia a la carga térmica (motores Diesel refrigerados por aire), está indicado el uso de la aleación hipereutéctica aluminio-silicio (AT 18).

Su estructura interna es muy variada, en concordancia con las exigencias de cada aplicación, oscilando entre la gran flexibilidad de los pistones para motores de gasolina 4 tiempos y la extraordinaria robustez de los pistones Diesel.

En automoción y en general en todas las aplicaciones en las que se exija suavidad de marcha y disminución de ruidos, se han acreditado favorablemente los pistones CINTURAT (motores de gasolina 4 tiempos) y ALMADUR (motores de gasolina 4 tiempos de potencia específica elevada y motores Diesel).

En los motores de gasolina 4 tiempos para automóviles, los pistones emplomados o estañados proporcionan una seguridad adicional durante el rodaje. En los motores Diesel, particularmente en los sobrealimentados y en los refrigerados por aire, los pistones con falda grafitada consiguen una mayor seguridad de funcionamiento en el rodaje, y además, alargan la vida del motor.

Los motores Diesel consiguen elevadas duraciones gracias al uso de INSERTO en su primer canal de compresión. Con la variante del INSERTO a paño, se reduce drásticamente el "blow by", especialmente en los motores sobrealimentados. Para motores que trabajan en atmósferas polvorientas se utiliza el INSERTO en los dos primeros canales de compresión.

En los motores Diesel sometidos a elevadas cargas térmicas y mecánicas, es cada día más frecuente el anodizado duro de la cabeza del pistón.

EJES DE PISTON

Para utilización normal en compresores y motores de gasolina y Diesel se fabrican en aceros de cementación al cromo (AT 509), o para temperaturas de utilización, extremadamente elevadas, al cromo-molibdeno (AT 501).

La resistencia a la fatiga se aumenta cementando los ejes tanto exterior como interiormente y mediante un acabado esmerado de su interior según el procedimiento de taladrado profundo.

AROS

En general se fabrican en aleación perlítica de hierro fundido especial para aros de pistón (AT 110). Los aros del primer canal de compresión o aros de fuego utilizados en motores de gasolina y Diesel son de hierro fundido de elevada resistencia con grafito laminar (AT 111) o grafito esferoidal (AT 126). Los aros que funcionan en camisas templadas o cromadas interiormente se fabrican en aleación resistente al desgaste (AT 123 ó AT 112).

Para aumentar la seguridad de funcionamiento en el rodaje, la mayoría de los aros son fosfatados.

Duraciones prolongadas se consiguen en motores Diesel y gasolina 4 tiempos empleando en los aros del primer canal recubrimientos de cromo (elevada resistencia al desgaste), o capas, o rellenos de molibdeno (elevada resistencia al gripaje). Adicionalmente, los aros de engrase de los motores Diesel son frecuentemente cromados, y en el caso de los motores que trabajan en atmósferas polvorientas, todos los aros pueden ser cromados.

La seguridad funcional durante el rodaje y las condiciones de deslizamiento se mejoran con el abarillado de la superficie de deslizamiento de los aros con recubrimiento de cromo o molibdeno.

En los motores Diesel que montan pistones con tres aros, se mejora extraordinariamente el blow-by utilizando aros de primer canal con arista inferior viva (aro cromado de un solo bisel o con relleno de molibdeno).

Para reducir el consumo de aceite en los motores se emplean extensamente aros de engrase con expansor helicoidal.

CAMISAS DE CILINDRO

En motores de gasolina y Diesel se utilizan camisas de hierro fundido con contenido medio de fósforo (AT 182), obtenido por centrifugación.

Las camisas con el diámetro exterior (zona de aguas) con tratamiento especial están indicadas particularmente para motores propensos a la erosión por cavitación (Nitruradas).

Se fabrican camisas húmedas terminadas (motores de gasolina de 4 tiempos y Diesel) y camisas secas con el diámetro interior semiterminado o totalmente terminado (motores Diesel).

Foreword

TARABUSI, S. A. GRUPO CIE AUTOMOTIVE

Present

The new catalogue 2011 containing a wide range of pistons, rings and cylinder liners, covering the main application for cars, trucks, buses, tractors, stationary industrial engines, and compressors.

Arranged in alphabetical order of makes, diameters and compression heights, pistons references are on these pages related with their corresponding pins and rings, and if necessary, also with their liners (referentes and main characteristics).

For any clarification or enquiry do not hesitate in contacting with our Technical or Commercial Teams.

We thank you your confidence in the Tarabusi products.

Introduction

OUR PRODUCT

The quality of TARABUSI products has made us leader in the manufacture of motor equipment.

OUR CLIENTS

They are our raison d'être. Leading makers and repair companies around the world continue to have every faith in our products.

OUR SERVICE

A basic element in which we invest great effort. A fine human team, working with fully computerized systems, enables us to offer a service that is swift, direct, and efficient.

Our guarantee

TARABUSI products meet the requirements of ISO 9001 / ISO/TS 16949 / ISO 14001 / OHSAS 18001.

We guarantee their quality, and their adaptability to the requirements of current technology, for a period of twelve months from the date of erection.

A defective product will be replaced without charge providing TARABUSI can verify that the fault lies in material or manufacture, and also that the complaint is received in writing within the space of thirty days from the date on which trouble occurs.

The guarantee will not apply if the TARABUSI product has been modified by a third party or has been erected with components not belonging to our products. Nor will it apply if the product in question has not been handled and erected in accordance with our instructions.

Neither normal wear nor damage as a result of misuse will be covered by this guarantee.

Content of this catalogue

TARABUSI has taken great care in preparing this catalogue, but cannot accept any claim based on an error in the information therein contained.

- Names, descriptions, engines, vehicles, etc..., only stated for reference.
- We cannot accept responsibility for modifications carried out by the makers of motors or compressors.
- In case of doubt, address your query to our post-sales department.
- Drawing, figures, and other data are provided solely to explain and illustrate our products. In no case can they be used as basis for the installation of pieces.
- We shall be most grateful if any errors there may be are pointed out, and shall undertake to correct them in later editions.
- We reserve the right to made changes without prior notice.
- This catalogue replaces to any other previous edition.

Protection of property

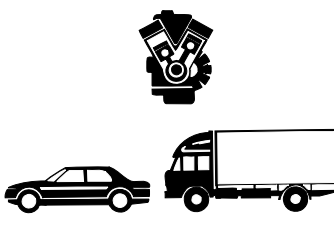
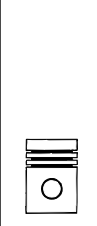
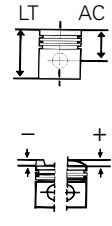


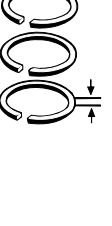
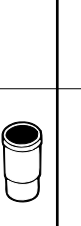


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The present edition renders previous editions null and void.

SELECTION OF "AT" PRODUCTS

To select the different AT products suitable for each make and type of engine, our catalogue provides a most

completed information, whose detail is the following:

				Type					
1	2	3	4	5	6	7	8		
Manufacturer line									

Column (1):

Engine type
Vehicle type — Years of manufacture
Engine technical characteristics and vehicle types.

Column (2):

Piston reference
Nominal bore in millimeters (and in inches if necessary).
Quantity
Piston shape shown by means of a sketch.
Raw piston.

Column (3):

Compression height
×
Piston overall length in millimeters (and in inches if necessary).
Compression heights vary on some type of engines according to the oversizes; the amount shown on the catalogue, corresponds to the standard diameter. In this case "VC" will be stated in column (4).

Column (4):

Main piston features. They will be indicated by means of following abbreviations:
Hard anodized piston crown. **A**
ALMADUR: Special expansion - regulating piston. (Registered Mark). **ALM**
AT-MATIC: Special expansion - regulating piston, mainly applicable to 4 stroke petrol engines. (Registered Mark). **ATM**
CINTURAT: Special expansion - regulating piston. (Registered Mark). **CIN**
Piston with cooling gallery. **G**
Hiper-eutectic alloy. **H**
INSERT: Austenitic iron insert bonded in the first ring groove. **IN**
INSERT 2: Double insert in austenitic iron bonded in first and second groove. **IN2**
Steel plate inserted in piston crown to avoid ignition damages. **P**
Steel rail inserted in the first ring groove. **R**
Variation in compression height for oversizes. **VC**
Piston with piston pin bushings. **CB**

Column (5):

Pin diameter
×
Gudgeon pin length
In millimeters (and in inches if necessary). When pin is anchored in the conrod, letter **F** will be stated.

Column (6):

Ring quantity, type and height in millimeters (and in inches, if necessary). Ring types are shown at the beginning of this catalogue. Where the ring type is followed by an apostrophe ('), it means that it deals with a special material.

Liner shape. If the correspondent liner sketch is not drawn beside the letters showing the liner dimensions, previous sketch is to be applied.

Column (7):

Nominal size and oversizes for pistons and piston rings, in millimeters (and in inches if necessary).

Special features of the liner. They are shown by means of the following abbreviations:

Nitrided liner. **N**

Special material with high carbon content. **C**

Liner with hard chromium plated bore. **CR**

Cylinder liner reference and dimensions.

A = outside diameter.

L = overall length.

C = flange diameter.

H+F = flange overall width, where

H = flange width

F = gasket protection spigot height.

Column (8):

Ring set reference.

Complete Piston reference.

Kit Set reference.

INDICATIONS AND ABBREVIATIONS

Indications and abbreviations shown for information purposes, mean the following:

Air cooled: engine cooled by air.

Also suitable for...: it can also be applied to other engines.

Between bosses: distance between both piston bosses.

Cast Iron Cylinder Block: for engines having two versions (light alloy or cast iron).

Carburettor, Carburettor: engine fed by means of a carburettor.

cc: cubic centimeters (swept volume of the engine).

Combustion bowl Ø: diameter of the combustion chamber.

Compressor: air or other fluid compressor.

Cubic inches: swept volume of the engine.

cwt.: hundredweight.

cyl.: number of cylinders.

Cylinder head ... and ... with corresponding nozzle holder:

Diesel: engine working under compression ignition cycle.

Direct Injection Diesel: as above, but with direct fuel injection.

Dto.: same engine types as in former paragraph.

Engine.

Exchangeable in sets.

For cast Iron Bores Only: for engines with two or more liner options.

From engine ...: suitable for all engines whose numbers are higher than specified.

From Engine ... and Engine ...

From Engine ... and ... onwards.

From Engine ... to Engine ... and ...

From Series ...

Fuel Injection: engines using injection systems to feed the fuel into combustion chambers (usually petrol).

HC: high compression; for engines with high and low compression ratio options.

Horizontal Engine: engine in horizontal position.

HP: horse power (horse power in general, according to engine original specification).

Indirect Injection Diesel: Diesel engine working under compression ignition cycle, but with indirect fuel injection system.

Industrial: Industrial engine (not for automotive purposes).

Injection: fuel injection carried out by injectors.

KW: kilowatt (power in general, according to engine original specification).

LC: low compression; for engines with low and high compression ratio options.

Left Hand Piston: for engines with two types of piston (right and left hand).

Light Alloy Cylinder Block: for engines having two versions (cast iron and light alloy).

Ltr.: litres (swept volume of the engine).

Machine piston crown if necessary: for pistons that must be measured once assembled in the engine, and machined the crown if necessary according to engine service handbook.

Marine: marine engine.

May be mounted in older vehicles, too, when using a cylinder of special material.

Moped: motorcycle with pedals.

Multi cyl.: engines with an optional number of cylinders.

No oil ring fitted in 5th groove.

Normally Aspirated.

OHV: engine with overhead valves.

Right Hand Engine Only: engine with crankshaft rotating rightwards only.

Right Hand Piston: for engines with two types of pistons (left and right hand).

Sealing rings: toroidal sealing rings.

See ...

Ser. ... upward: suitable for all engines whose series numbers are higher than specified.

Series from ...

Series to ...

Spanish Engines: these engines are manufactured in Spain (but at the same time are also made in other countries).

Stamo: stationary engine.

Stroke: piston stroke.

To engine ...

To series...

To use with ... and ... cylinder head.

ton.: imperial or metric ton.

Transfer: scavenging port.

Transformation.

Turbocharged: turbocharged engine.

Turbocharged-intercooled: Turbocharged engine with cooled air charge.

Vertical engine: engine in vertical position.

V Form: engine with cylinders arranged in V form.

V8: engine with 8 cylinders arranged in V form.

Water cooled: engine cooled by water.

With con-rod 256 mm: engine with 256 mm long con-rod.

With cylinder head gasket 1,4 mm: engine with 1,4 mm thick cylinder head gasket.

With pin Ø.

Without valve pockets, also replacement for pistons with valve pockets.

16:1/8.5:1: compression ratio.

Mar. 1975 onwards: engines manufactured after March 1975.

Sept. 1974-77: engines manufactured from Sept. 1974 to 1977.

To Sept. 1977: engines manufactured up to Sept. 1977.

To 1980: engines manufactured up to 1980.

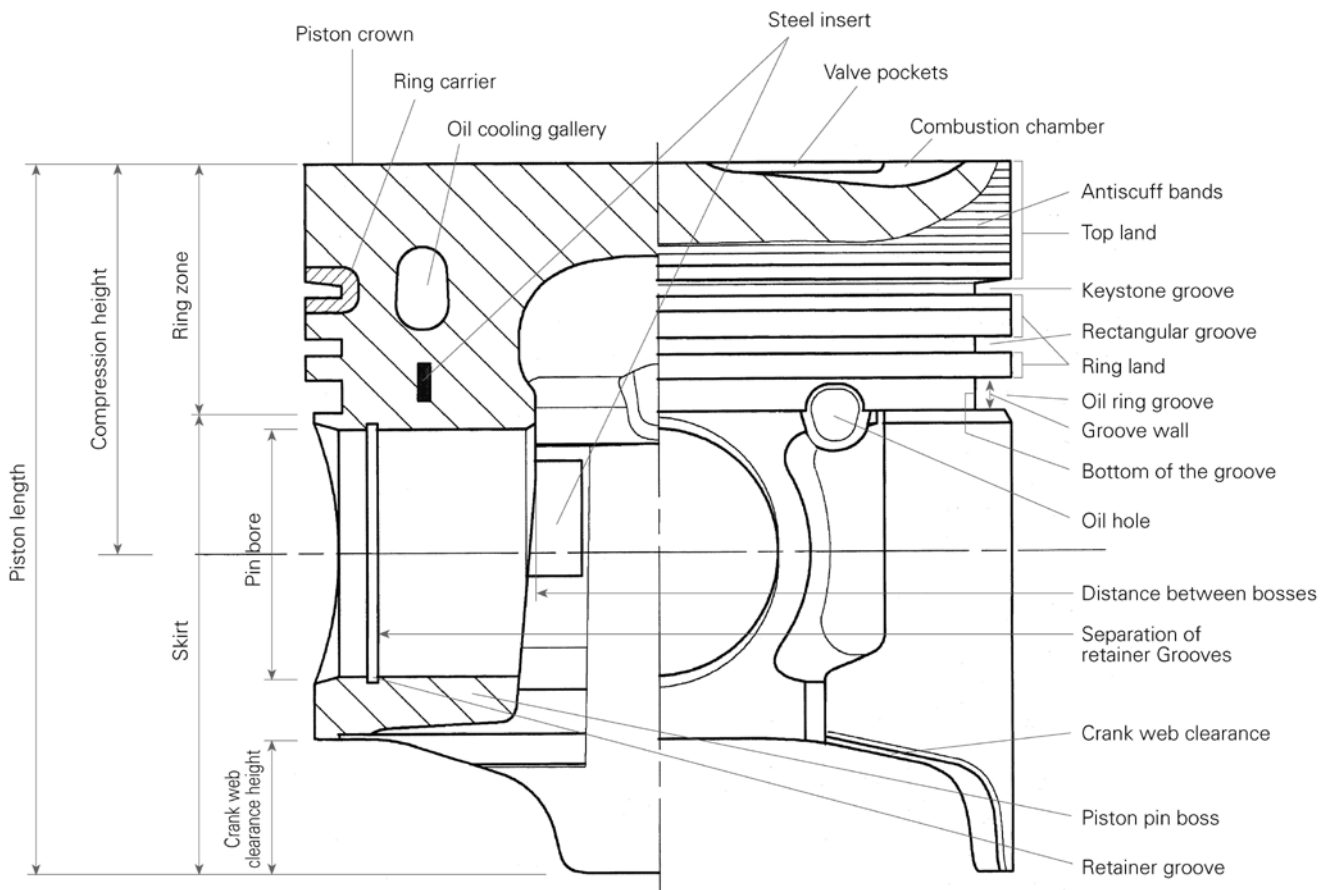
1983-85: engines manufactured from 1983 to 1985.

1986 onwards: engines manufactured after 1986.

1973-Aug. 1978: engines manufactured from 1973 to August 1978.

TECHNICAL INFORMATION ABOUT OUR PRODUCTS

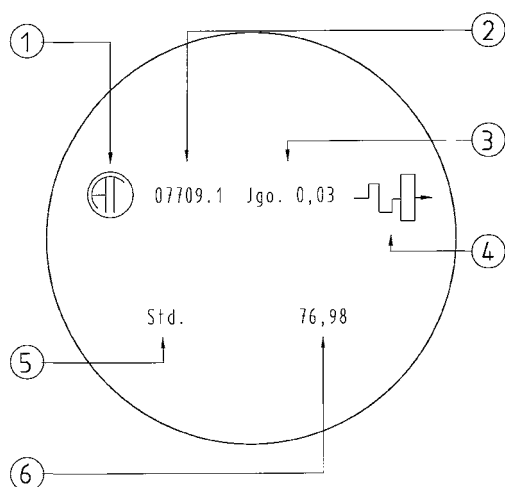
Denominations / Dimensions of the piston



Piston crown marks


Pistons are marked according to the following figure:

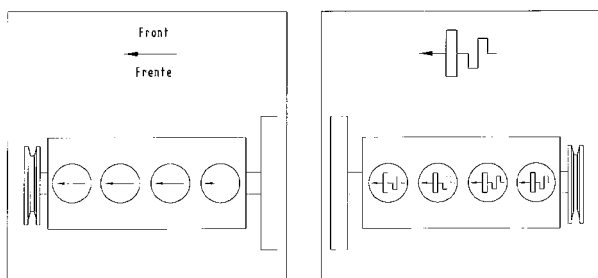
1. TARABUSI. Registered Mark.
2. Piston reference.
3. Piston-bore clearance.
4. Assembly position, if necessary, (arrow facing flywheel).
5. Standard or oversize.
6. Actual diameter.



According to our example, the engine reconditioner must bear in mind that the cylinder bore is to be rebored in the block to the finishing size of: $76,98 + 0,03 = 77,01$ millimeters minimum, as this will allow a piston like the one shown, to be properly fitted in with the adequate clearance.

When pistons are to be fitted in finished liners, the pistons do not bear the clearance.

Assembly position shown thus , which indicates towards the flywheel, has sometimes been changed by either \rightarrow FRENTE \rightarrow , which indicates the front of the engine, or by ESC \rightarrow , which indicates the exhaust port side in two stroke engines.



Rings

Some of the most common types are shown in their corresponding figures, with their identification numbers. When rings are not delivered with pistons, care is to be taken that each ring is fitted in its corresponding groove (1st, 2nd, 3rd ...) as it is indicated on the packing, and likewise applies to the TOP mark, which must always face the piston head. Do not fit chromed rings in chromed-in-the bore liners.

Piston rings with diameters over 130 mm are not of standard supply, and must be always submitted to our previous approval before ordering.

Gudgeon pins

Types shown are as follows:

- Pin anchored in the connecting rod (letter F).
- Floating pin retained by circlips (without letter).

Each piston is fitted with its corresponding gudgeon pin, and different fits have been provided for different engine types; for that reason, a great difference is to be found sometimes, when fitting a pin with clearance, or with interference.

Lately there has been a clear trend to lighter pin fits (with clearance), as geometrical shape and smooth finish, both at piston and pin, are today obtained by modern methods. Particular our "accruising" system yields a mirror finish piston hole, with close-to-zero roughness. Do not be surprised consequently, if you feel sometimes a "loose" fit, particularly with pin press fit in con-rod engines..

Cylinder liners

Dry liners and wet liners can be easily identified by their corresponding figures. Main dimensions of each liner are also shown in the descriptive part. With regard to the cylinder bore, the following points are to be considered:

- Liners with reference numbers starting by 40, 41,42 or 43, mean finished in the bore liners.
- Liners with reference numbers starting by 44, 45 or 46, mean semi-finished in the bore liners (allowance of approx. 0,5 millimeters in diameter); final operations to be done after assembly are: fine boring and honing.
- Liners with reference numbers starting by 47 mean pre-finished in the bore liners (allowance of approx. 0,05 millimeters in diameter); final operation to be done after assembly is honing.

Circlips

Wire or Seeger circlips, according to engine type, are also provided with pistons; do not change or distort circlips in assembly. Always use the pliers to insert the circlip in the piston pin hole groove.

Sealing rings

Where sealing rings or gaskets are required for the correct assembly of the cylinder liner in the block, these are only provided if specially ordered. If sealing rings with dimensions or material other than the genuine ones, are used, the liner can distort, and piston seizure may occur.

Materials

Selected materials have been chosen in order to meet every requirement, ranging from standard alloys to the best standing properties, when necessary. The latter include hypereutectic alloys for pistons, hardened and tempered spheroidal graphite alloys for rings and carburised or nitrided alloyed steels for pins. All aluminium and cast iron alloys are produced in our foundry, using the most modern methods of melting, casting and inspecting.

HOW TO ORDER

Bare pistons are identified and ordered by their make and reference number. If the required diameter is not standard one, oversizes must be properly specified (when oversize is in inches, there is always a zero after the point; when oversize is in millimeters, there is always any digit after the point).

Cylinder liners are identified and ordered by their make and reference number (1st digit: 4).

Complete piston (pistons with rings, pins, and circlips) are identified and ordered by their assembly number (1st digit: 6).

Ring sets are identified and ordered by their assembly number (1st digit: 7).

Finally, the assembly composed by the piston with rings, pin, circlips, liner and its sealing rings if necessary, form the **Kit set** which is identified and ordered by its assembly number (1st digit: 5)

Example of orders:

- Perkins **piston** ref. 90845.2
- Seat **piston** ref. 07352.4, .40
- Pegaso **liner** ref. 4068934
- Ford **complete piston** ref. 6243204

- Ford **complete piston** ref. 6243215
- **Ring set** for Peugeot ref. 7221200
- **Ring set** for Peugeot ref. 7221222
- **Kit set** for Peugeot ref. 5457502

Products ordered

Bare piston at standard diameter (Ø 98,476).

Bare piston at +0,40 mm oversize (Ø 73,4).

Cylinder liner (with its sealing rings, if necessary).

One piston with its rings, one pin and circlips at standard diameter (Ø 80).

One piston with its rings, one pin and circlips at + 0,50 mm oversize (Ø 80,5).

Set of 3 rings: one type 608', one type 651' and one type 533 at standard diameter (Ø 94).

Set of 3 rings: one type 608', one type 651' and one type 533 at +0,40 mm oversize (Ø 94,40).

Set composed by one piston with its pin, two circlips, one set of 4 rings and one liner (with its sealing rings if necessary).

FITTING INSTRUCTIONS

To obtain the best results of our sets, a great attention must be paid to these fitting instructions, as the life of our components depends greatly on how they have been assembled and fitted.

All components supplied are made from selected materials and machined to the correct dimensions, tolerances and clearances; components supplied as sets should be installed without attempting to mix those from one set with those of another.

Unless required for major repairs, it is not usually necessary to remove the complete engine from the chassis in order to replace rings, pistons and liners. After removal of the cylinder head and sump, it should be possible to take off the big end bearing caps, and draw the old piston assembly (together with the conrod) from the worn liners. Several upward taps on the bottom of the old liners should be sufficient to loosen them so that they can easily be pulled upwards; use a special sleeve extractor if necessary.

To remove a tight-fitting gudgeon pin, heat the piston in hot oil; do not force the pin as this may distort the piston. After assembly of new pistons, (always use special pliers to insert the circlips and the piston rings), make sure the pistons are correctly aligned with the big end bearing. When inserting the piston assembly into the cylinder bore, use a good ring compressor device to avoid ring breakages, and tap home lightly to prevent damage to ring lands.

New liners should be carefully compared with those removed, to see whether they are the correct type, particularly with regard to the positioning of the sealing ring grooves and flange design.

Remove all scale and rust from seating surfaces in the

cylinder block, and clear all deposits from water passages. Wipe clean the contact faces of the new liners and also the new rubber sealing rings or gaskets, when inserting wet liners; smear the liners with oil to aid insertion, making sure that sealing rings are in their grooves. Before inserting dry liners, wipe external surfaces perfectly clean and remove by hand honing any burrs which may be present; press the liner firmly into position and check for distortion.

Seating surfaces should be perfectly true and square with the bore.

CONDITIONS OF SALE

Our offers are submitted without obligation. Failing our expressed agreement in writing, any conditions stated in the buyer's order deviating from those stipulated, will not be recognised by us. We reserve the right to deliver up to 10% in excess or below the ordered quantity, when orders are not delivered from our stock, but made purposely; in this case, we may ask to be ordered a minimum quantity.

Our ability to supply is reserved in all cases; terms of delivery will be observed as far as possible, without obligation for us. We cannot accept penalties for delays in delivery. The delivery period agreed upon starts after reception of the firm order (once cleared all pending points), and ends when goods are ready for shipment.

Our prices are quoted strictly net, including normal packing, and the goods are invoiced at the prices valid on date of delivery. We reserve the right to adjust our prices in case of any variations in our costs for wages, materials and others. Special wooden cases and protection material are charged separately and are also not returnable. All risks of transportation and incidental deterioration fall under the buyer's own responsibility.

Terms of payment are fixed individually; generally, the buyer will open an irrevocable Letter of Credit in our favour at a Spanish bank to be named by us, enabling partial shipments and transshipments; for delayed payments, interests will be charged at the current rate. The goods supplied remain our property until the buyer has completely met all obligations.

The buyer assumes responsibility for the legality of our reduction to practice of: drawings, sketches, samples, etc., submitted to us. Patterns, casting dies, tools, etc., are charged separately and remain our property even if the costs have been shared by the buyer; this is also applied to certain types of components that, even listed in this Catalogue, are no able to be delivered without charge of some special tooling. Delay on delivering in these cases is for this reason increased.

Without an immediate written and registered complaint, the goods are deemed to be accepted. Concerning technical specifications, only our own designs and standards are binding us. Goods properly ordered and supplied are never taken back; exceptions need our previous written consent.

For all questions of dispute arising from the sale order or contract, will be competent, according to our choi-

ce the Law Courts of Bilbao, or the Law Courts of the capital of the buyer's country.

Any taxes, duties, etc. deriving from the sale of our products as specified on this terms of sale, will be on the buyer's country.

TARABUSI QUALITY PRODUCTS INCLUDE

PISTONS

They are basically made in eutectic aluminium-silicon alloy (AT 12), of excellent characteristics as low thermal expansion coefficient, good mechanical properties even in hot condition, and first rate sliding characteristics, being employed in petrol and Diesel engines and in compressors. In applications requiring a lower thermal expansion coefficient (2 stroke petrol engines built with cast iron cylinders) or a higher resistance to thermal loads (air cooled Diesel engines), the use of hypereutectic aluminium-silicon alloy (AT 18) is most convenient.

Their internal configuration vary a great deal according to the requirements of each application, oscillating from the great flexibility of the pistons for 4 stroke petrol engines, to the stiffness of the pistons for Diesel engines.

In automotion, as in all applications in general where a smooth running and reduction in noise is required, CINTURAT (4 stroke petrol engines) or ALMADUR (high power 4 stroke petrol and Diesel engines) have been applied very favourably.

On 4 stroke petrol engines, lead or tin coated pistons provide additional security during the running in period. On Diesel engines, and particularly on the supercharged and air cooled types, graphite coated pistons operate with a much higher security during the running-in and, in addition, increase the engine life.

Diesel engines extend their life thanks to the use of the INSERT in the top compression groove, but with the flush type of INSERT, the "blow by" is drastically reduced specially on the supercharged engines. Pistons with INSERTS in the first two compression grooves are of benefit for engines operating in dusty environments.

Diesel engines subjected to high thermal and mechanical loads, increasingly demand the use of pistons with hard anodized crowns.

PISTON PINS

For a normal use in compressors and petrol and Diesel engines, chromium alloyed case hardened steels are used (AT 509), or they are made in chromium-molybdenum (AT 501) for extremely high temperature applications.

Fatigue strength is increased by case hardening the pins, both internally and externally, together with an accurate finish operation applied to their inside diameter by means of the deep boring process.

PISTON RINGS

In general, they are made in a special pearlitic cast iron alloy (AT 110). The top rings or piston rings for the first compression groove used in petrol and Diesel engines are made in high resistant laminar graphite cast iron (AT 111), or in spheroidal graphite cast iron (AT 126). Piston rings working in hardened or chromium plated bores are made in a wear resistant alloy (AT 123 or AT 112).

In order to increase the security in operation during the running in period, the majority of the rings are phosphated.

On Diesel and 4 stroke engines, long durations are attained by applying chromium coats (high wear resistant) or molybdenum layers or fillings (high scuff resistant) to the top rings. Moreover, oil rings for Diesel engines are frequently chromium plated, and in the case of Diesel engines operating in dusty environments, the whole lot of the rings can be chromium plated.

Safety in operation during the running-in and sliding conditions are improved by the barrel shape form of the chromium or molybdenum coats applied to the piston ring bearing face.

Blow-by in Diesel engines fitted with pistons assembling three rings is highly reduced by using top rings with sharp edges on their bottom side (single chamfer chromium plated or molybdenum filled rings).

To reduce the oil consumption in engines, oil rings provided with coil springs are widely used.

CYLINDER LINERS

Diesel and petrol engines employ centrifugally cast, medium phosphorus, pearlitic cast iron cylinder liners (AT 182).

Cylinder liners with a special treatment on their outside diameters (water jacket side) are specially indicated for engines prone to cavitation erosion (Nitrided).

Liners are made both: wet type fully finished in bore (4 stroke petrol and Diesel engines), and dry type semifinished or fully finished in bore (Diesel engines).

Prologue

TARABUSI, S. A. GRUPO CIE AUTOMOTIVE

Présente

Le nouveau catalogue 2011 qui contient une vaste gamme de pistons, segments et chemises, qui couvrent les applications principales pour les automobiles, camions, autobus, tracteurs, moteurs fixes, machines industrielles et compresseurs.

Ces feuilles donnent les références des pistons, par ordre alphabétique de marques, diamètres et hauteurs de compression, avec leurs axes et leurs segments ainsi qu'avec leurs chemises (reference et caractéristiques principales) si nécessaire.

Pour n'importe quelle aclaration ou consulte ne hésitez pas en contacter avec nos équipes Técnica ou Comercial..

Nous vous remercions de votre confiance dans les produits Tarabusi

FRANÇÉS

Introduction

NOTRE PRODUIT

La qualité et le développement du produit TARABUSI a fait de nous le leader de la fabrication du système EQUIPO-MOTOR.

NOS CLIENTS

Ils sont pour nous notre raison d'être. Aussi bien les constructeurs de première ligne, que le marché mondial de la réparation, ont fait confiance à nos produits, et continuent de la faire.

NOTRE SERVICE

Le service est une des caractéristiques fondamentales dans laquelle nous consacrons aussi tous nos efforts. Une bonne équipe humaine, unie à l'informatisation de tous nos systèmes nous permettent d'offrir un service rapide, direct et efficace.

Déclaration de garantie

Les produits TARABUSI répondent toujours à un haut degré de qualité et de développement, avalisé par les certificats ISO 9001 / ISO/TS 16949 / ISO 14001 / OHSAS 18001.

Nous garantissons la qualité de nos produits, ainsi que leur adaptabilité à l'état actuel de la technique. La période de garantie est de 12 mois à partir de la date du montage des produits.

Le produit réclamé sera remplacé sans charge, une fois que TARABUSI ait vérifié qu'il s'agit d'un défaut de matériel ou de fabrication, dès le moment que la communication soit faite par écrit dans un délai de 30 jours à compter à partir de la date à laquelle la panne s'est produite.

La garantie n'est pas applicable si le produit TARABUSI a été modifié par un tiers ou s'il a été monté avec des composants étrangers à ceux que nous fabriquons. La garantie ne sera pas applicable non plus si la manipulation et le montage des produits ne sont pas réalisés conformément aux indications prescrites.

Aussi bien l'usure normale que les dégâts dus à une mauvaise utilisation sont eux aussi exclus de la garantie.

Contenu de ce catalogue

Bien que TARABUSI ait mis le plus grand intérêt à la préparation d l'information contenue dans ce catalogue, celle-ci est entièrement comprise sans aucun engagement de notre part, toute réclamation d'indemnisation en relation avec ce catalogue en étant totalement exclue.

- Les noms, les descriptions, moteurs, véhicules, etc..., figurant dans ce catalogue, ne sont donnés qu'a des fins de comparaison.
- Nous ne pouvons pas assumer la responsabilité des modifications réalisées par les fabricants de moteurs ou de compresseurs.
- En cas de doute, adressez votre consultation à notre département après-vente.
- Les dessins, figures et autres données servent uniquement à expliquer et à illustrer nos produits, en aucun cas ils doivent être utilisés comme base pour l'installation de certaines pièces.
- Nous vous serons reconnaissants de nous communiquer quelques erreurs éventuelles, qui seraient corrigées dans les éditions suivantes.
- Nous nous réservons le droit de faire des modifications sans prévenir au préalable.
- Ce catalogue remplace a n'importe quelle édition précédent.

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Avec la publication de ce catalogue, toutes les éditions antérieures perdent leur validité. Le Document propriété de TARABUSI, S.A.

SÉLECTION DE PRODUITS "AT"

Pour choisir les différents produits AT propres à chaque marque et à chaque type de moteur, notre Catalogue

fournit des informations très complètes dont le détail est le suivant:

1	2	3	4	5	6	7	8	
Ligne consacrée au constructeur								

Colonne (1):

Type de moteur.
Type de véhicule — Années de fabrication.
Caractéristiques techniques des moteurs et des types de véhicules.

Colonne (2):

Référence du piston.
Diamètre nominal en millimètres (et pouces si nécessaire).
Forme du piston.
Piston Brut.

Colonne (3):

Hauteur de compression (AC)
×
Longueur totale du piston en millimètres (et pouces si nécessaire). (LT)
Dans certains types de moteurs, les hauteurs de compression varient suivant les cotes en réparation; la quantité qui figure dans le catalogue correspond au diamètre standard. Dans ces cas on indiquera dans la colonne (4) "VC".

Colonne (4):

Principales caractéristiques du piston. Elles portent les abréviations suivantes:
Tête avec anodisation dure. **A**
ALMADUR: Piston à dilatation contrôlée à l'aide de tôles de réglage, applicable en général à toutes sortes de pistons. (Marque Brevetée). **ALM**
AT-MATIC: Piston à dilatation contrôlée à l'aide de tôles de réglage, applicable surtout à des pistons à essence 4t (Marque Brevetée). **ATM**
CINTURAT: Piston à dilatation contrôlée à l'aide d'un anneau de réglage. (Marque Brevetée). **CIN**
Piston avec galerie pour refroidissement. **-G**
Alliage hypereutectique. **H**
INSERT: En fer austénitique dans la 1ère gorge. **IN**
INSERT DOUBLE: En fer austénitique dans la première et la deuxième gorge. **IN2**
Pièce en acier insérée dans la tête du piston pour éviter des dommages provoqués par l'ignition. **P**
Lamelle en acier insérée dans la 1ère gorge. **R**
Variation de hauteur de compression en cotes en réparation. **VC**
Piston avec des bagues. **CB**

Colonne (5):

Diamètre extérieur (Ø)
×
Longueur de l'axe de piston. (L)
En millimètres (et pouces si nécessaire). Quand le boulon sera fixé à la bielle, on l'indiquera avec la lettre **F**.

Colonne (6):

Quantité, type et hauteur des segments en millimètres (et pouces si nécessaire). Les types de segments sont représentés au début du catalogue. Quand le segment a une apostrophe ('), cela signifie qu'il s'agit d'un matériel spécial.

Forme de la chemise. Quand, avec les lettres indiquant les dimensions, le dessin correspondant n'apparaît pas c'est que le précédent est valable.

Colonne (7):

Dimensions, nominale et cotes en réparation auxquelles se terminent les pistons et les segments, en millimètres (et pouces si nécessaire).

Caractéristiques spéciales de la chemise indiquées à l'aide des abréviations suivantes:

Chemise nitrurée. **N**
Matériau spécial à contenu élevé en carbone. **C**
Chemise à diamètre intérieur chromé dur. **CR**
Référence et dimensions de la chemise.

A = diamètre extérieur.
L = longueur totale.
C = diamètre collerette.
H+F = hauteur totale de la collerette avec:
H = hauteur collerette.
F = hauteur pare-feu.

Colonne (8):

Référence jeu de segments.
Référence piston complet.
Référence équipement cylindre.

INDICATIONS ET ABRÉVIATIONS

Les indications et les abréviations, qui sont données à titre informatif, signifient:

Air cooled: moteur refroidi par air.

Also suitable for...: peut aussi s'utiliser pour...

Between bosses: distance entre les bossages d'axe du segment (espace de bielle).

Cast Iron Cylinder Block: bloc en fonte pour moteurs, en deux versions (alliage léger ou fonte).

Carburetter, Carburettor: alimentation du moteur au moyen du carburateur.

cc: centimètres cubes (cylindrée du moteur)

Combustion bowl Ø: diamètre chambre de combustion.

Compressor: compresseur à air ou autre fluide.

Cubic inches: pouces cubes (cylindrée du moteur).

cwt.: Quintal (environ 50 kg.).

cyl.: nombre de cylindres.

Cylinder head ... and ... with corresponding nozzle holder: culasse... et... avec le porte-injecteur correspondant.

Diesel: moteur fonctionnant au moyen d'un cycle d'ignition par compression.

Direct Injection Diesel: comme auparavant mais avec injection directe du combustible.

Dto.: pour moteurs du même type que ceux du paragraphe précédent.

Engine: moteur.

Exchangeable in sets: échangeable avec jeux complets.

For cast Iron Bores Only: pour cylindres en fonte seulement.

From Engine ...: à partir de moteur ...

From Engine ... and Engine ...: à partir de moteur ... et moteur ...

From Engine ... and ... onwards: à partir de moteur ... et...

From Engine ... to Engine ... and ...: à partir de moteur ... jusqu'à moteur ... et ...

From Series ...: à partir de séries ...

Fuel Injection: injection de combustible (en général essence).

HC: forte compression; pour moteurs, à option, avec rapport de compression élevé ou bas.

Horizontal Engine: moteur en position horizontale.

HP: chevaux vapeur (puissance en général, selon spécification d'origine du moteur).

Indirect Injection Diesel: moteur Diesel avec injection indirecte du combustible.

Industrial: Moteur Industriel (pas pour automobiles).

Injection: l'alimentation se fait par injecteurs.

KW: kilowatt (puissance en général, selon spécification d'origine du moteur).

LC: compression basse, pour moteurs, à option, avec rapport bas ou élevé de compression.

Left: piston main gauche, pour moteurs avec pistons de deux types (main droite et main gauche).

Light Alloy Cylinder Block: Bloc en alliage léger, pour moteurs en deux versions (alliage léger ou fonte).

Ltr.: litres (cylindrée du moteur).

Machine piston crown if necessary: pour pistons qui doivent être mesurés une fois installés sur le moteur et usiner la tête si nécessaire suivant le Manuel d'Utilisation.

Marine: moteur marin.

May be mounted in older vehicles, too, when using a cylinder of special material: peut aussi s'installer sur des moteurs anciens et aussi quand on utilise des cylindres d'un matériau spécial.

Moped: motocyclettes à pédales ou cyclomoteurs.

Multi cyl.: moteurs avec nombre de cylindres à option.

No oil ring fitted in 5th groove: segment racleur d'huile non monté sur la 5ème gorge.

Normally Aspirated: moteur à aspiration normale.

OHV: moteur avec soupapes sur la tête.

Right Hand Engine Only: moteur à rotation à droite seulement.

Right Hand Piston: piston main droite pour moteurs avec pistons de deux types (main droite main gauche).

Sealing rings: joints toriques.

See ...: voir ...

Ser. ... upward: séries supérieures à ...

Series to ...: séries à partir de ...

Series from ...: séries jusqu'à ...

Spanish Engines: ces moteurs sont fabriqués en Espagne (quand le même moteur est fabriqué dans d'autres pays).

Stamo: moteur stationnaire.

Stroke: course du piston.

To engine ...: jusqu'au moteur ...

To series...: jusqu'aux séries ...

To use with ... and ... cylinder head: pour utiliser avec... et... culasse.

ton.: tonne anglaise ou métrique.

Transfer: fenêtre de transfert.

Transformation: transformation du moteur de série.

Turbocharged: moteur turboalimenté.

Turbocharged-intercooled: moteur turbo alimenté avec refroidissement de l'air de charge.

Vertical engine: moteur en position verticale.

V Form: moteur avec cylindres en forme de V.

V8: moteur avec 8 cylindres en V.

Water cooled: moteur refroidi à l'eau.

With con-rod 256 mm: moteur avec bielle de 258 mm de long.

With cylinder head gasket 1,4 mm: moteur avec joint de culasse d'1,4 mm d'épaisseur.

With pin Ø: avec axe de piston de diamètre.

Without valve pockets, also replacement for pistons with valve pockets: piston sans fraisage des soupapes, remplaçable également par des pistons avec fraisages des soupapes.

16:1/8.5:1: rapport de compression.

Mar. 1975 onwards: moteurs fabriqués à partir de mars 1975.

Sept. 1974-77: moteurs fabriqués de septembre 1974 à 1977.

To Sept. 1977: moteurs fabriqués jusqu'en septembre 1977.

To 1980: moteurs fabriqués jusqu'en 1980.

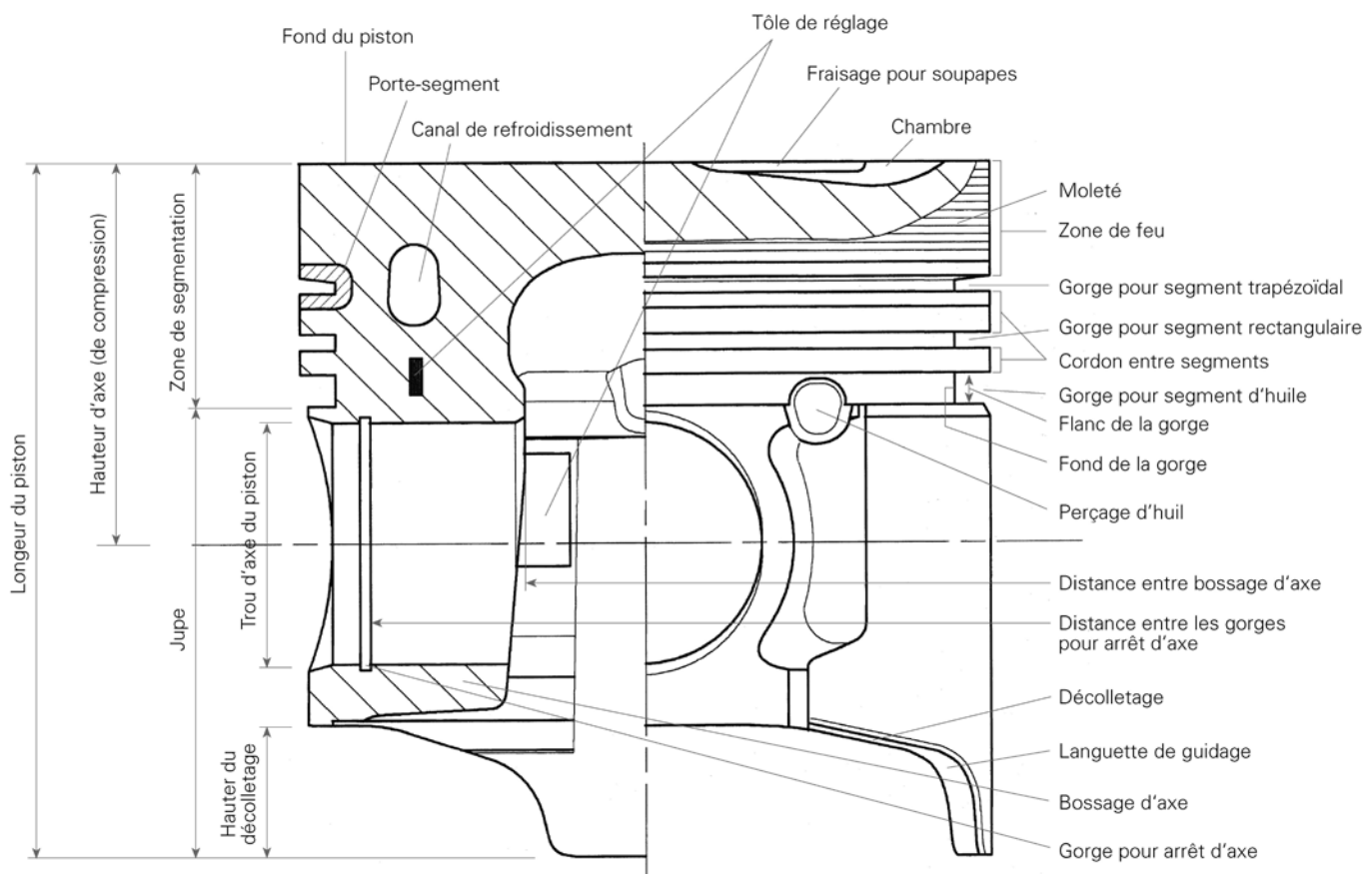
1983-85: moteurs fabriqués entre les années 1983 et 1985.

1986 onwards: moteurs fabriqués à partir de 1986.

1973-Aug. 1978: moteurs fabriqués de 1973 à août 1978.

INFORMATION TECHNIQUES SUR NOS PRODUITS

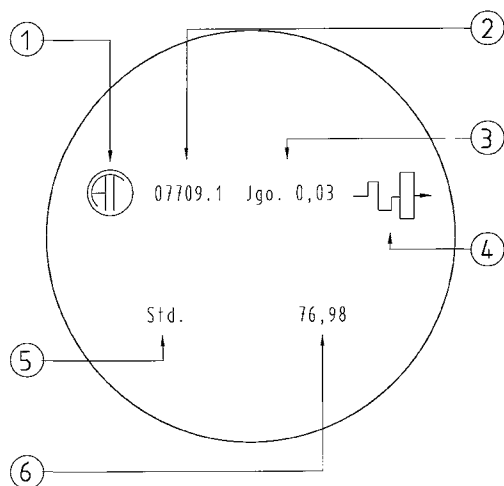
Denominations / Dimensions du pistons



Marques sur la tête du piston


Les pistons sont marqués comme indiqué sur la figure suivante:

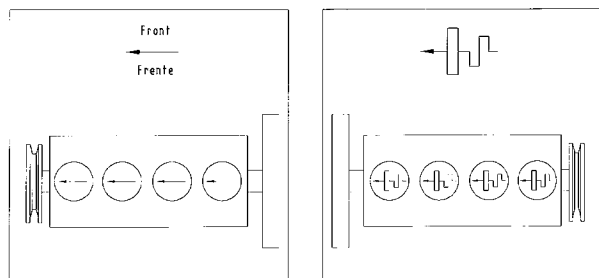
1. TARABUSI. Marque Brevetée.
2. Référence du piston.
3. Jeu entre le piston et le cylindre.
4. Position de montage, si nécessaire (flèche allant vers le volant).
5. Standard ou cote en réparation.
6. Diamètre réel.



D'après notre exemple, l'atelier de rectification de moteurs doit tenir compte du fait que le diamètre intérieur du cylindre, dans le bloc, doit s'usiner à: $76,98 + 0,003 = 77,01$ mm minimum afin qu'un piston comme celui qui est indiqué soit monté avec le jeu adéquat.

Quand les pistons sont fournis pour être montés avec des chemises terminées, on n'indique pas le jeu.

La position de montage , qui indique vers le volant du moteur, est quelquefois indiquée par →FRENTE→, qui indique la partie avant du moteur, ou aussi par ESC→, qui indique le côté d'échappement pour des moteurs à deux temps.



Segments

Certains des types de segments les plus usuels sont présentés sur les figures correspondantes avec leurs numéros d'identification. Quand les segments sont fournis séparés des pistons, l'utilisateur montera chacun d'entre eux dans son canal (1er, 2ème, 3ème,...) comme indiqué sur l'emballage, et la marque "TOP" sera toujours placée vers la tête du piston. Il ne faut pas monter des segments chromés sur des chemises chromées. Les segments ayant un diamètre supérieur à 130 mm. en font pas partie des fournitures normales, ils doivent donc toujours être l'objet d'une consultation préalable.

Axes de piston

Il peut y en avoir de deux sortes:

- Axes fixés à la bielle (lettre F).
- Axes flottants retenus par des anneaux (sans lettre).

Chaque piston est fourni avec son axe et des réglages de plusieurs sortes ont été prévus, en fonction des différents types de moteur. C'est pour cette raison qu'il y aura parfois une certaine différence de réglage quand on monte un axe avec jeu fonctionnel ou interférence.

Dernièrement, on a eu clairement tendance à concevoir les axes avec un réglage très faible (avec jeu) car la perfection géométrique et la bonne finition de la surface aussi bien pour le piston que pour son axe peuvent s'obtenir grâce aux méthodes modernes de production dont on dispose. Notre système de "précision", en particulier, produit un logement de l'axe dans le presque nulle. Il ne faut donc pas s'étonner si quelquefois on a l'impression que les axes entrent avec beaucoup de jeu dans les pistons, surtout dans les types d'axe fixes sur la bielle.

Chemises

Les chemises sèches et les chemises humides peuvent facilement être identifiées avec les figures correspondantes. Les principales dimensions de chaque chemise figurent aussi dans la partie description. En ce qui concerne le diamètre intérieur on tiendra compte des points suivants:

- Les numéros de référence des chemises qui commencent par 40, 41, 42, ou 43, indiquent que ce sont des chemises dont l'intérieur est terminé.
- Les numéros de référence des chemises qui commencent par 44, 45 ou 46 indiquent que ce sont des chemises dont l'intérieur est semiterminé (surépaisseur du diamètre intérieur d'environ 0,5 mm); opérations à faire après le montage: alésage et brunissage.

- Les numéros de référence des chemises qui commencent par 47 indiquent que ce sont des chemises dont l'intérieur est préterminé (surépaisseur du diamètre intérieur d'environ 0,05 mm); opération à faire après le montage: brunissage.

Anneaux de rétention

Les anneaux de rétention, qu'ils soient du type Seeger ou en fil d'acier, selon le modèle de moteur, sont aussi livrés avec les pistons complets; il ne faut ni distorsionner ni changer les anneaux pendant le montage. Utiliser toujours des tenailles spéciales pour installer les anneaux de rétention dans les logements.

Joint toriques

Si on utilise des joints toriques d'un matériau ou de dimensions différents de ceux d'origine, la chemise peut se déformer et provoquer un grippage du piston.

Matériaux

Afin de remplir toutes les conditions requises par chaque moteur, on a choisi, dans chaque cas, les matériaux les plus adéquats, des plus normaux aux plus complexes. Parmi ces derniers figurent les alliages hypereutectiques pour pistons, des alliages de graphite sphéroïdal trempés et revenus pour segments et des aciers à alliage à haute teneur cémentés pour axes de piston. Tous les alliages d'aluminium et de fer se font dans nos fonderies spéciales, en utilisant les méthodes de fusion, de coulée et d'inspection les plus modernes.

COMMENT PASSER UNE COMMANDE

Les **pistons nus** s'identifient et se commandent par marque et numéro de référence. Si le diamètre demandé n'est pas le nominal, indiquer correctement sa cote en réparation (quand la cote de réparation est en pouces, il y a toujours un zéro après le point; quand la cote en réparation est en millimètres, il y a toujours un digite quelconque après le point.

Les **chemises** s'identifient et se commandent également par marque et numéro de référence (1er digite: 4).

Les **pistons complets** (piston + segments + axe + anneaux de rétention) s'identifient et se commandent par leur numéro de référence (1er digite: 6).

Les **jeux de segments** s'identifient aussi par leur référence (1er digite: 7)

L'ensemble piston avec ses segments, son axe, ses anneaux de rétention, sa chemise et ses joints toriques, si nécessaire, forme l'équipement cylindre qui

s'identifie et se commande par son numéro de référence (1er digite: 5).

Exemples de commande:

- **Piston** Perkins réf. 90845.2
- **Piston** Seat réf. 07352.4, .40
- **Chemise** Pegaso réf. 4068934
- **Piston complet** Ford réf. 6243204
- **Piston complet** Ford réf. 6243215
- **Jeu de segments** Peugeot réf. 7221200
- **Jeu de segments** Peugeot réf. 7221222
- **Équipement cylindre** Peugeot réf. 5457502

Produits commandés

Piston nu de diamètre standard (Ø 98,476).

Piston nu cote en réparation de +0,40 mm (Ø 73,4).

Chemise, seulement (avec ses joints toriques si nécessaire).

Un piston avec ses segments, son axe et ses anneaux de rétention de diamètre standard (Ø 80).

Un piston avec ses segments, son axe et ses anneaux de rétention, cote en réparation de +0,50 mm. (Ø 80,5).

Jeu de trois segments, un type 608', un type 651' et un type 533 de diamètre standard (Ø 94).

Jeu de trois segments: un type 608', un type 651' et un type 533, cote de réparation de 0,40 mm (Ø 94,40).

Un piston avec son axe et ses deux anneaux de rétention, un jeu de 4 segments et une chemise (avec ses joints toriques si nécessaire).

INSTRUCTIONS DE MONTAGE

Pour obtenir les meilleurs résultats de nos équipements, faire très attention aux instructions de montage car la durée de vie des pièces dépend, en grande mesure, de la façon dont elles ont été montées et réglées.

Toutes les pièces livrées sont fabriquées avec des matériaux sélectionnés et elles sont usinées avec les dimensions, les tolérances et les jeux corrects; les pièces livrées comme ensembles devront être installées sans essayer de mélanger celles d'un équipement avec celles d'un autre.

Sauf pour les réparations générales, normalement il n'est pas nécessaire de démonter le moteur complet du châssis pour remplacer segments, pistons ou chemises. Après avoir démonté la culasse et le carter, on doit pouvoir enlever les bagues du pied de bielle et enlever l'ensemble du piston (avec la bielle des chemises usées). Plusieurs coups vers le haut dans le fond des vieilles chemises sont normalement suffisants pour les desserrer afin de pouvoir les enlever vers le haut. Utiliser un extracteur de chemises spécial si nécessaire.

Pour démonter un axe qui est très serré, chauffer le piston dans de l'huile chaude, ne pas forcer l'axe car il peut

distorsionner le piston. Une fois les pistons installés (utiliser toujours des tenailles spéciales pour insérer les anneaux de rétention et les segments), s'assurer que les pistons sont correctement alignés avec le pied de bielle. Pour insérer l'ensemble du piston dans le cylindre utiliser une bonne frette pour segments afin d'éviter d'éventuelles ruptures et obliger le piston avec de légers coups pour éviter que les cordons ne s'abiment.

Les nouvelles chemises doivent être soigneusement comparées à celles qui ont été enlevées du moteur pour voir si elles sont du bon type, en particulier pour l'emplacement des gorges des joints toriques et la forme de la collerette.

Nettoyer tout l'oxyde et toutes les incrustations des faces d'assise dans le bloc et des conduites d'eau. Nettoyer avec un chiffon les surfaces de contact des chemises neuves ainsi que les joints toriques en caoutchouc ou les autres joints, pour insérer les chemises, badigeonner les chemises d'huile pour faciliter l'insertion et s'assurer que les joints toriques sont dans leurs gorges. Avant de mettre les chemises sèches nettoyer parfaitement les surfaces et enlever les ébarbures présentes et brunir à la main si nécessaire, introduire les chemises à pression et mesurer la distorsion.

Les surfaces d'appui doivent être parfaitement plates et perpendiculaires aux cylindres.

CONDITIONS DE VENTE

Nos offres sont livrées sans engagement. Sans notre approbation écrite, toutes les conditions indiquées dans la commande de l'acheteur et qui seront modifiées par rapport aux conditions stipulées, ne seront pas admises par nous. Nous nous réservons le droit de livrer jusqu'à 10% de moins ou de plus que la quantité commandée quand les commandes livrées ne proviennent pas de nos stocks mais qu'elles ont été fabriquées exprès; dans ce cas nous pouvons demander que la commande soit supérieure à une quantité minimum.

Nos possibilités de livraisons sont soumises à réservation dans tous les cas; les délais de livraison seront respectés dans la mesure du possible, sans engagement formel de notre part. Nous ne pouvons pas accepter de pénalisations pour retards dans les livraisons. La période considérée comme délai de livraison commence à la réception de la commande ferme (une fois que tous les points ont été éclaircis) et se termine quand la merchandise est prête à être embarquée.

Nos prix cotisés sont nets, emballage normal inclus et les marchandises sont facturées aux prix en vigueur à la date de la livraison. Nous nous réservons le droit de modifier nos prix en cas de variations de coûts des matériaux, des salaires et autres. Les emballages spéciaux en bois et les matériaux protecteurs sont en sus et leur restitution n'est pas acceptée. Tous les risques de transport et de détériorations accidentelles sont à la charge de l'acheteur.

Les conditions de paiement sont fixées individuelle-

ment; normalement l'acheteur ouvrira une carte de crédit, irrévocable, en notre faveur, dans une Banque espagnole désignée par nous, permettant des envois partiels et des transferts; les retards dans les paiements entraîneront les intérêts en vigueur à ce moment là. Les marchandises livrées continuent à être à nous tant que l'acheteur n'a pas rempli toutes ses obligations quant au paiement et autres conditions convenues.

L'acheteur est responsable de la légalité du design que nous ferons sur: Plans, échantillons, croquis, etc., qui nous auront été fournis. Les modèles, coquilles, outillages, etc., seront en sus et continueront à être de notre propriété même quand ils auront été en partie assumés par l'acheteur; ceci est également valable pour un certain type limité de pièces qui, même si elles ont une référence dans ce Catalogue, ne peuvent être fournies sans ajouter quelques frais pour outillages spéciaux. Dans ces cas, il faut prévoir un certain retard dans les délais correspondants.

S'il n'y a pas réclamation écrite immédiate et recommandée, les marchandises seront considérées formellement acceptées. En ce qui concerne les spécifications techniques, nous nous engageons uniquement à respecter nos design et nos normes. Les marchandises correctement commandées et fournies ne peuvent pas être renvoyées à leur lieu d'origine; toute exception requiert notre consentement par écrit.

En cas de litige sur n'importe quelle affaire en rapport avec la vente de nos produits, l'acheteur reconnaît la compétence des Tribunaux de Bilbao ou des Tribunaux de la capitale du pays acheteur, selon le choix que nous ferons.

Tous les impôts, taxes, charges, etc., dérivant de la vente de nos produits sont, comme cela est indiqué dans ces conditions de vente, à la charge de l'acheteur.

GAMME DE PRODUITS DE QUALITE TARABUSI

PISTONS

Ils sont fabriqués, fondamentalement, en alliage eutectique aluminium-silicium (AT 12) avec un faible coefficient de dilatation, une résistance élevée même aux températures de fonctionnement et un excellent comportement face au glissement; ils s'emploient dans des moteurs à essence et Diesel et dans des compresseurs. Dans des applications où il faut un coefficient de dilatation inférieur (moteurs à essence à deux temps avec cylindre en fer) ou une plus grande résistance à la charge thermique (moteurs Diesel refroidis par air) l'utilisation de l'alliage hypereutectique aluminium-silicium (AT 18) est indiquée.

Leur structure interne est très variée, en fonction des exigences de chaque application et elle oscille entre la grande flexibilité des pistons pour moteurs à essence 4 temps et l'extraordinaire robustesse des pistons Diesel.

En automotion et en général dans toutes les applications où une marche douce est exigée ainsi qu'une

diminution des bruits, les pistons CINTURAT (moteurs à essence 4 temps) et ALMADUR (moteurs à essence 4 temps à puissance spécifique élevée et moteurs Diesel) sont réputés.

Dans les moteurs à essence 4 temps pour automobiles, les pistons plombés ou étamés fournissent une sécurité supplémentaire pendant le rodage. Dans les moteurs Diesel, en particulier ceux qui sont suralimentés et dans ceux qui sont refroidis par air, les pistons à jupe graphitée obtiennent un fonctionnement plus sûr lors du rodage et, en outre, rallongent la vie du moteur.

Les moteurs Diesel obtiennent de longues durées grâce à l'utilisation de INSERT dans la première gorge de compression. Avec la variante de l'INSERT à ras on réduit énormément le "blow by", en particulier dans les moteurs suralimentés. Pour des moteurs qui travaillent dans des ambiances poussiéreuses, on utilise l'INSERT dans les deux premières gorges de compression.

Dans les moteurs Diesel soumis à des charges thermiques et mécaniques élevées; une anodisation dure de la tête du piston est de plus en plus fréquente.

AXES DE PISTON

On augmente la résistance à la fatigue en cimentant les axes aussi bien à l'extérieur qu'à l'intérieur et avec une finition soignée de l'intérieur suivant le processus d'alésage profond.

SEGMENTS

En général on les fabrique en alliage perlitique de fonte spéciale pour segments de piston (AT 110). Les segments de la première gorge de compression ou segments de feu utilisés dans les moteurs à essence et Diesel sont en fonte d'une grande résistance avec du graphite laminaire (AT 111) ou du graphite sphéroïdal (AT 126). Les segments qui fonctionnent avec chemises trempées ou chromées intérieurement sont fabriqués dans un alliage résistant à l'usure (AT 123 ou AT 112).

Pour augmenter la sécurité de fonctionnement pendant le rodage, la majorité des segments sont phosphatés.

On obtient des durées prolongées des moteurs Diesel et à essence 4 temps en utilisant dans les segments de la première gorge des recouvrements en chrome (résistance élevée à l'usure) ou des couches, ou des remplissages de molybdène (résistance élevée au grippage). Additivement, les segments de graissage des moteurs Diesel sont fréquemment chromés et, dans le cas des moteurs qui travaillent dans des atmosphères poussiéreuses, tous les segments peuvent être chromés.

La sécurité fonctionnelle pendant le rodage et les conditions de glissement s'améliorent avec le bombage de la surface de glissement des segments à recouvrement de chrome ou de molybdène.

Dans les moteurs Diesel qui montent des pistons avec trois segments on améliore énormément les blow-by en utilisant des segments de première gorge avec arête inférieure vive (segment chromé d'un seul biseau ou avec remplissage en molybdène).

Pour réduire la consommation d'huile dans les moteurs, on emploie largement des segments racleurs avec expanseur hélicoïdal.

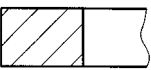
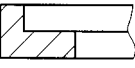
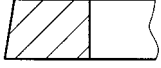
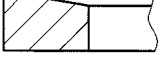



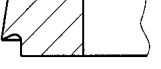



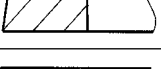
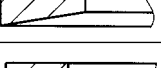
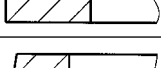
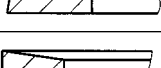
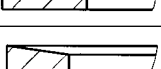
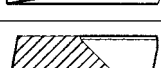
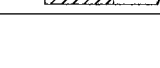
CHEMISES DE CYLINDRE

Dans les moteurs à essence et Diesel, on utilise des chemises en fonte à contenu moyen en phosphore (AT 182) obtenu par centrifugation.

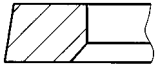
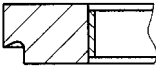

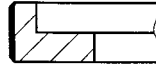
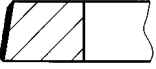

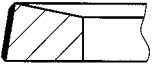
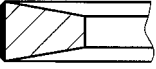

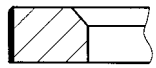
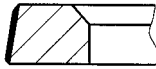
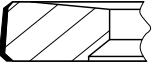
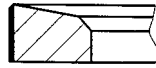
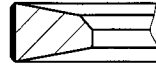
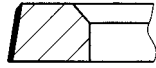
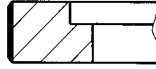

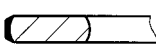
Les chemises ayant le diamètre extérieur (zone d'eaux) avec traitement spécial sont tout particulièrement indiquées pour des moteurs avec propension à l'érosion par cavitation (Nitrurées).

On fabrique des chemises humides terminées (moteurs à essence 4 temps et Diesel) et des chemises sèches avec le diamètre intérieur semiterminé ou complètement terminé (moteurs Diesel).

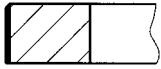
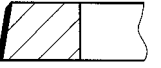
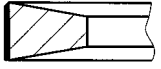
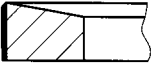
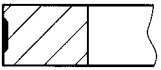
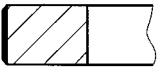
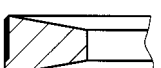



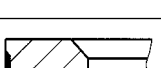
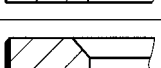


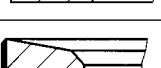

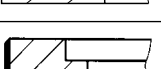
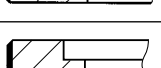
TIPOS DE AROS DE COMPRESION
COMPRESION RING TYPES
TYPES DES SEGMENTS DE COMPRESION

TIPO TYPE TYPE	FIGURA FIGURE FIGURE	DESCRIPCION DESCRIPTION DESCRIPTION
001		Rectangular <i>Plain</i> Rectangulaire
002		En forma de "L" <i>Dykes "L"</i> Forme "L"
005		Periferia cónica <i>Taper faced</i> Portée conique
007		Trapezial 1 cara <i>Half-keystone</i> Trapézoïdal latéral
008		Trapezial 2 caras <i>Keystone</i> Trapézoïdal bilatéral
020		Normal <i>Stepped scraper</i> Racleur
022		Napier <i>Napier</i> Bec d'aigle
023		Napier periferia cónica <i>Taper faced napier</i> Bec d'aigle portée conique
025		Bisel exterior <i>Externally bevelled stepped scraper</i> Racleur chanfrein extérieur
028		Normal periferia cónica <i>Taper faced stepped scraper</i> Racleur portée conique
041		Rectangular con bisel interior <i>Plain internally bevelled</i> Rectangulaire chanfrein intérieur
045		Periferia cónica con bisel interior <i>Taper faced internally bevelled</i> Portée conique chanfrein intérieur
048		Trapezial 2 caras con bisel interior <i>Keystone internally bevelled</i> Trapézoïdal bilatéral chanfrein intérieur-
051		Rectangular con escalón interior <i>Plain internally stepped</i> Rectangulaire épaulement intérieur
055		Periferia cónica con escalón interior <i>Taper faced internally stepped</i> Portée conique épaulement intérieur
057		Trapezial 1 cara con escalón interior <i>Half-keystone internally stepped</i> Trapézoïdal lateral épaulement intérieur
058		Trapezial 2 caras con escalón interior <i>Keystone internally stepped</i> Trapézoïdal bilatéral épaulement intérieur
083		Napier periferia cónica con bisel interior <i>Taper faced napier internally bevelled</i> Bec d'aigle portée conique chanfrein intérieur

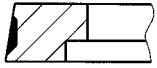
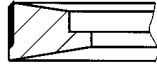


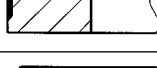


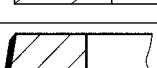

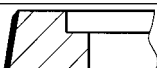
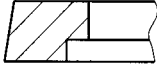
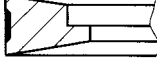



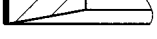

TIPOS DE AROS DE COMPRESION
COMPRESION RING TYPES
TYPES DES SEGMENTS DE COMPRESION

TIPO TYPE TYPE	FIGURA FIGURE FIGURE	DESCRIPCION DESCRIPTION DESCRIPTION
095		Torsional inverso biselado <i>Reversed twist</i> Torsion négative
122		Napier con expansor poligonal <i>Napier with expander</i> Bec d'aigle avec expandeur
301		Rectangular cromado <i>Plain chrome plated</i> Rectangulaire chromé
302		En forma de "L" cromado Chrome plated Dykes "L" Chromé forme "L"
305		Periferia cónica cromado <i>Taper faced chrome plated</i> Portée conique chromé
306		Trapezial 2 caras cromado periferia cónica <i>Keystone taper face chrome plated</i> Trapézoïdal biilatéral portée conique chromé
307		Trapezial 1 cara cromado <i>Half-keystone chrome plated</i> Trapézoïdal unilatéral chromé
308		Trapezial 2 caras cromado <i>Keystone chrome plated</i> Trapézoïdal bilatéral chrome
341		Rectangular cromado con bisel interior <i>Plain internally bevelled chrome plated</i> Rectangulaire chromé chanfrein intérieur
344		Rectangular cromado de un solo bisel con bisel interior <i>Plain single chamfer chrome plated internally bevelled</i> Rectangulaire chromé biseauté un seul côté, chanfrein intérieur
345		Periferia cónica cromado con bisel interior <i>Plain internally bevelled chrome plated</i> Portée conique chrome chanfrein intérieur
346		Trapezial 1 cara periferia cónica torsional inverso cromado <i>Half-keystone chrome plated taper faced reversed twist</i> Trapézoïdal bilateral portéé conique chrome torsion négative
347		Trapezial 1 cara cromado de un sólo bisel con bisel interior <i>Half-keystone single chamfer chrome plated inside bevelled</i> Trapézoïdal unilatéral chromé biseauté un seul côté chanfrein intérieur
348		Trapezial 2 caras cromado con bisel interior <i>Keystone chrome plated internally bevelled</i> Trapézoïdal bilatéral chromé chanfrein intérieur
349		Periferia cónica cromado de un solo bisel con bisel interior <i>Single chamfer chrome plated taper faced internally bevelled</i> Portée conique chromé biseauté un seul côté, chanfrein intérieur
351		Rectangular cromado con escalón interior <i>Plain internally stepped chrome plated</i> Rectangulaire chromé épaulement intérieur
354		Rectangular cromado de un solo bisel con escalón interior <i>Plain single chamfer chrome plated internally stepped</i> Rectangulaire chromé biseauté un seul côté, épaulement intérieur
391		Lámina cromada <i>Chrome plated steel rail</i> Lame chromée

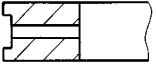
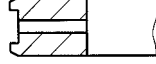




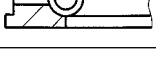
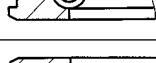
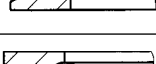
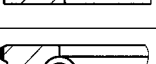
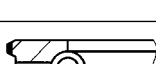


TIPOS DE AROS DE COMPRESION
COMPRESION RING TYPES
TYPES DES SEGMENTS DE COMPRESSION

TIPO TYPE TYPE	FIGURA FIGURE FIGURE	DESCRIPCION DESCRIPTION DESCRIPTION
394		Rectangular cromado de un solo bisel <i>Plain single chamfer chrome plated</i> Rectangulaire chromé biseauté un seul côté
395		Periferia cónica cromado de un solo bisel <i>Single chamfer chrome plated taper faced</i> Portée conique chromé biseauté un seul côté
398		Trapezial 2 caras cromado de un solo bisel <i>Single chamfer keystone chrome plated</i> Trapézoïdal bilatéral chromé biseauté un seul côté
399		Trapezial 1 cara cromado de un solo bisel <i>Single chamfer half-keystone chrome plated</i> Trapézoïdal unilatéral chromé biseauté un seul côté
600		Rectangular relleno de molibdeno <i>Plain molybdenum inlaid</i> Rectangulaire molybdéne incrusté
601		Rectangular molibdeno <i>Plain molybdenum fully faced</i> Rectangulaire molybdéne
603		Trapezial 2 caras semi-microbanda molibdeno <i>Keystone molybdenum semi-inlaid</i> Trapézoïdal bilatéral molybdéne semi-incrusté
608		Trapezial 2 caras molibdeno <i>Keystone molybdenum fully faced</i> Trapézoïdal bilatéral molybdéne
626		Napier con relleno de molibdeno <i>Napier molybdenum inlaid</i> Bec d'aigle molybdéne incrusté
627		Napier periferia cónica con relleno de molibdeno <i>Napier taper faced inlaid molybdenum</i> Bec d'aigle portée conique molybdéne incrusté
640		Rectangular relleno de molibdeno con bisel interior <i>Plain molybdenum inlaid internally bevelled</i> Rectangulaire molybdéne incrusté chanfrein intérieur
641		Rectangular molibdeno con bisel interior <i>Plain molybdenum fully faced internally bevelled</i> Rectangulaire molybdéne chanfrein intérieur
643		Rectangular semi-microbanda molibdeno con bisel interior <i>Plain molybdenum semi-inlaid internally bevelled</i> Rectangulaire molybdéne semi-incrusté chanfrein intérieur
647		Trapezial 1 cara semi-microbanda molibdeno con bisel interior <i>Half-keystone molybdenum semi-inlaid internally bevelled</i> Trapézoïdal unilatéral molybdéne semi-incrusté chanfrein intérieur
649		Trapezial 2 caras semi-microbanda molibdeno con bisel interior <i>Keystone molybdenum semi-inlaid internally bevelled</i> Trapézoïdal bilatéral molybdéne semi-incrusté chanfrein intérieur
650		Rectangular relleno de molibdeno con escalón interior <i>Plain molybdenum inlaid internally stepped</i> Rectangulaire molybdéne incrusté épaulement intérieur
651		Rectangular molibdeno con escalón interior <i>Plain molybdenum fully faced internally stepped</i> Rectangulaire molybdéne épaulement intérieur
653		Rectangular semi-microbanda molibdeno con escalón interior <i>Plain molybdenum semi-inlaid internally stepped</i> Rectangulaire molybdéne semi-incrusté épaulement intérieur

TIPOS DE AROS DE COMPRESION
COMPRESION RING TYPES
TYPES DES SEGMENTS DE COMPRESION

TIPO TYPE TYPE	FIGURA FIGURE FIGURE	DESCRIPCION DESCRIPTION DESCRIPTION
655		Torsional inverso escalonado con relleno de molibdeno <i>Stepped reversed torsion inlaid molybdenum</i> Portée conique molybdène incrusté épaulement intérieur négative
659		Trapezoidal 2 caras semi-microbanda molibdeno con escalón interior <i>Keystone molybdenum semi-inlaid internally stepped</i> Trapézoïdal bilatéral molybdène semi-incrusté épaulement intérieur
660		Rectangular relleno de molibdeno con bisel interior y bisel exterior <i>Plain inlaid molybdenum inside and outside bevelled</i> Rectangulaire molybdène incrusté chanfrein intérieur et extérieur
690		Trapezoidal 2 caras relleno de molibdeno <i>Keystone molybdenum inlaid</i> Trapézoïdal bilatéral molybdène incrusté
693		Rectangular semi-microbanda molibdeno <i>Plain molybdenum half-inlaid</i> Rectangulaire molybdène semi-incrusté
695		Periferia cónica relleno de molibdeno <i>Taper face molybdenum inlaid</i> Portée conique molybdène incrusté
698		Trapezoidal 2 caras molibdeno de un solo bisel <i>Keystone single chamfer fully faced molybdenum</i> Trapézoïdal bilatéral molybdéné biseauté un seul côté
847		Trapezoidal 1 cara torsional inverso relleno de molibdeno <i>Half-keystone molybdenum inlaid reversed twist</i> Trapézoïdal bilatéral molybdène incrusté torsion négative
945		Torsional inverso cromado <i>Internally bevelled bottom side chrome plated</i> Torsion négative chromé
948		Trapezoidal 2 caras relleno de molibdeno con bisel interior <i>Keystone molybdenum inlaid internally bevelled</i> Trapézoïdal bilatéral molybdène incrusté chanfrein intérieur
954		Periferia cónica cromado de un solo bisel con escalón interior <i>Taper faced single chamfer chrome plated internally stepped</i> Portée conique chromé biseauté un seul côté, épaulement intérieur
955		Periferia cónica torsional inverso escalonado <i>Single chamfer reversed torsion stepped</i> Portée conique torsion négative, épaulement intérieur
958		Trapezoidal 2 caras relleno de molibdeno con escalón interior <i>Keystone molybdenum inlaid internally stepped</i> Trapézoïdal bilatéral molybdène incrusté épaulement intérieur
978		Trapezoidal 2 caras cromado de un solo bisel con escalón interior <i>Keystone single chamfer chrome plated internally stepped</i> Trapézoïdal bilatéral chromé biseauté un seul côté, épaulement intérieur
995		Torsional inverso biselado cromado de un solo bisel <i>Bevelled Reverse torsion chrome plated</i> Torsion négative chromé biseauté un seul côté
997		Trapezoidal 1 cara torsional inverso biselado cromado <i>Half-keystone reversed torsion chrome plated</i> Trapézoïdal unilatéral chromé torsion négative
998		Trapezoidal 2 caras cromado de un solo bisel con bisel interior <i>Keystone single chamfer chrome plated internally bevelled</i> Trapézoïdal bilatéral chromé biseauté un seul côté, chanfrein intérieur

TIPOS DE AROS DE ENGRASE
OIL CONTROL RING TYPES
TYPES DES SEGMENTS RÉGULATEURS D'HUILE

TIPO TYPE TYPE	FIGURA FIGURE FIGURE	DESCRIPCION DESCRIPTION DESCRIPTION
030		Normal Slotted Normal á fentes
031		Biseles opuestos Bevelled-edged Chanfreiné symétrique
032		Biseles iguales Double - bevelled Chanfreiné paralléle
130		Normal con expansor poligonal Slotted with expander Normal á fentes avec expandeur
131		Biseles opuestos con expansor poligonal Bevelled-edged with expander Chanfreiné symétrique avec expandeur
132		Biseles iguales con expansor poligonal Double-bevelled with expander Chanfreiné paralléle avec expandeur
230		Normal con expansor helicoidal Slotted with coil spring Normal á fentes avec ressort hélicoïdal
231		Biseles opuestos con expansor helicoidal Bevel-edged with coil spring Chanfreiné symétrique avec ressort hélicoïdal
232		Biseles iguales con expansor helicoidal Double-bevelled with coil spring Chanfreiné paralléle avec ressort hélicoïdal
236		Cordones biselados interiormente con expansor helicoidal Bevel-edged V-groove with coil spring Lévres viseautés interieurement avec ressort hélicoïdal
530		Cromado biseles opuestos con flancos rectificados y expansor helicoidal rectificado Chrome plated profile ground bevel-edged with coil spring ground Chromé chanfreiné lévres rectifiés avec ressort hélicoïdal rectifié
533		Cromado biseles opuestos con flancos rectificados y expansor helicoidal Chrome plated profile ground bevel-edged with coil spring Chromé chanfreiné lévres rectifiés avec ressort hélicoïdal
933		Engrane 3 piezas de acero Multi-piece steel-rail oil control Le segment racleur multiple en acier

Fracciones de pulgada	Decimales de pulgada	Milímetros mm.	Milímetros mm.	Fracciones de pulgada	Decimales de pulgada	Milímetros mm.	Fracciones de pulgada	Decimales de pulgada	Milímetros mm.	Fracciones de pulgada	Decimales de pulgada	Milímetros mm.	Fracciones de pulgada	Decimales de pulgada	Milímetros mm.	Fracciones de pulgada	Decimales de pulgada	Milímetros mm.	Fracciones de pulgada	Decimales de pulgada	Milímetros mm.		
1/64	0.0156	0.397	10.080	1/64	0.0156	0.397	10.080	1/64	0.0156	0.397	10.080	1/64	0.0156	0.397	10.080	1/64	0.0156	0.397	10.080	1/64	0.0156	0.397	10.080

Tabla de conversión pulgadas - milímetros

TABLA DE CONVERSION CV-KW

CV	KW	CV	KW	CV	KW	CV	KW	CV	KW	CV	KW
1	0.735	71	52.220	141	103.705	211	155.190	281	206.675	351	258.160
2	1.471	72	52.956	142	104.441	212	155.926	282	207.411	352	258.896
3	2.206	73	53.691	143	105.176	213	156.661	283	208.146	353	259.631
4	2.942	74	54.427	144	105.912	214	157.397	284	208.882	354	260.367
5	3.677	75	55.162	145	106.647	215	158.132	285	209.617	355	261.102
6	4.413	76	55.898	146	107.383	216	158.868	286	210.353	356	261.838
7	5.148	77	56.633	147	108.118	217	159.603	287	211.088	357	262.573
8	5.884	78	57.369	148	108.854	218	160.339	288	211.824	358	263.309
9	6.619	79	58.104	149	109.589	219	161.074	289	212.559	359	264.044
10	7.355	80	58.840	150	110.325	220	161.810	290	213.295	360	264.780
11	8.090	81	59.575	151	111.06	221	162.545	291	214.030	361	265.515
12	8.826	82	60.311	152	111.796	222	163.281	292	214.766	362	266.251
13	9.561	83	61.046	153	112.531	223	164.016	293	215.501	363	266.986
14	10.297	84	61.782	154	113.267	224	164.752	294	216.237	364	267.722
15	11.032	85	62.517	155	114.002	225	165.487	295	216.972	365	268.457
16	11.768	86	63.253	156	114.738	226	166.223	296	217.708	366	269.193
17	12.503	87	63.988	157	115.473	227	166.958	297	218.443	367	269.928
18	13.239	88	64.724	158	116.209	228	167.694	298	219.179	368	270.664
19	13.974	89	65.459	159	116.944	229	168.429	299	219.914	369	271.399
20	14.710	90	66.195	160	117.680	230	169.165	300	220.650	370	272.135
21	15.445	91	66.930	161	118.415	231	169.900	301	221.385	371	272.870
22	16.181	92	67.666	162	119.151	232	170.636	302	222.121	372	273.606
23	16.916	93	68.401	163	119.886	233	171.371	303	222.856	373	274.341
24	17.652	94	69.137	164	120.622	234	172.107	304	223.592	374	275.077
25	18.387	95	69.872	165	121.357	235	172.842	305	224.327	375	275.812
26	19.123	96	70.608	166	122.093	236	173.578	306	225.063	376	276.548
27	19.858	97	71.343	167	122.828	237	174.313	307	225.798	377	277.283
28	20.594	98	72.079	168	123.564	238	175.049	308	226.534	378	278.019
29	21.329	99	72.814	169	124.299	239	175.784	309	227.269	379	278.754
30	22.065	100	73.550	170	125.035	240	176.520	310	228.005	380	279.490
31	22.800	101	74.285	171	125.770	241	177.255	311	228.740	381	280.225
32	23.536	102	75.021	172	126.506	242	177.991	312	229.476	382	280.961
33	24.271	103	75.756	173	127.241	243	178.726	313	230.211	383	281.696
34	25.007	104	76.492	174	127.977	244	179.469	314	230.947	384	282.432
35	25.742	105	77.227	175	128.712	245	180.197	315	231.682	385	283.167
36	26.478	106	77.963	176	129.448	246	180.933	316	232.418	386	283.903
37	27.213	107	78.698	177	130.183	247	181.668	317	233.153	387	284.638
38	27.949	108	79.434	178	130.919	248	182.404	318	233.889	388	285.374
39	28.684	109	80.169	179	131.654	249	183.139	319	234.624	389	286.109
40	29.420	110	80.905	180	132.390	250	183.875	320	235.360	390	286.845
41	30.155	111	81.640	181	133.125	251	184.610	321	236.095	391	287.580
42	30.891	112	82.376	182	133.861	252	185.346	322	236.831	392	288.316
43	31.626	113	83.111	183	134.596	253	186.081	323	237.566	393	289.051
44	32.362	114	83.847	184	135.332	254	186.817	324	238.302	394	289.787
45	33.097	115	84.582	185	136.067	255	187.552	325	239.037	395	290.522
46	33.833	116	85.318	186	136.803	256	188.288	326	239.773	396	291.257
47	34.568	117	86.053	187	137.538	257	189.023	327	240.508	397	291.993
48	35.304	118	86.789	188	138.274	258	189.759	328	241.244	398	292.729
49	36.039	119	87.524	189	139.009	259	190.494	329	241.979	399	293.464
50	36.775	120	88.259	190	139.745	260	191.230	330	242.715	400	294.200
51	37.510	121	88.995	191	140.480	261	191.965	331	243.450		
52	38.246	122	89.731	192	141.216	262	192.701	332	244.186		
53	38.981	123	90.466	193	141.951	263	193.436	333	244.921		
54	39.717	124	91.202	194	142.687	264	194.172	334	245.657		
55	40.452	125	91.937	195	143.422	265	194.907	335	246.392		
56	41.188	126	92.673	196	144.158	266	195.643	336	247.128		
57	41.923	127	93.408	197	144.893	267	196.378	337	247.863		
58	42.659	128	94.144	198	145.629	268	197.114	338	248.599		
59	43.394	129	94.879	199	146.364	269	197.849	339	249.334		
60	44.130	130	95.615	200	147.100	270	198.585	340	250.070		
61	44.865	131	96.350	201	147.835	271	199.320	341	250.805		
62	45.601	132	97.085	202	148.571	272	200.056	342	251.541		
63	46.336	133	97.821	203	149.306	273	200.791	343	252.276		
64	47.072	134	98.557	204	150.042	274	201.527	344	253.012		
65	47.807	135	99.292	205	150.777	275	202.262	345	253.747		
66	48.543	136	100.028	206	151.513	276	202.998	346	254.483		
67	49.278	137	100.763	207	152.248	277	203.733	347	255.218		
68	50.014	138	101.499	208	152.984	278	204.469	348	255.954		
69	50.749	139	102.234	209	153.719	279	205.204	349	256.689		
70	51.485	140	102.970	210	154.455	280	205.940	350	257.425		

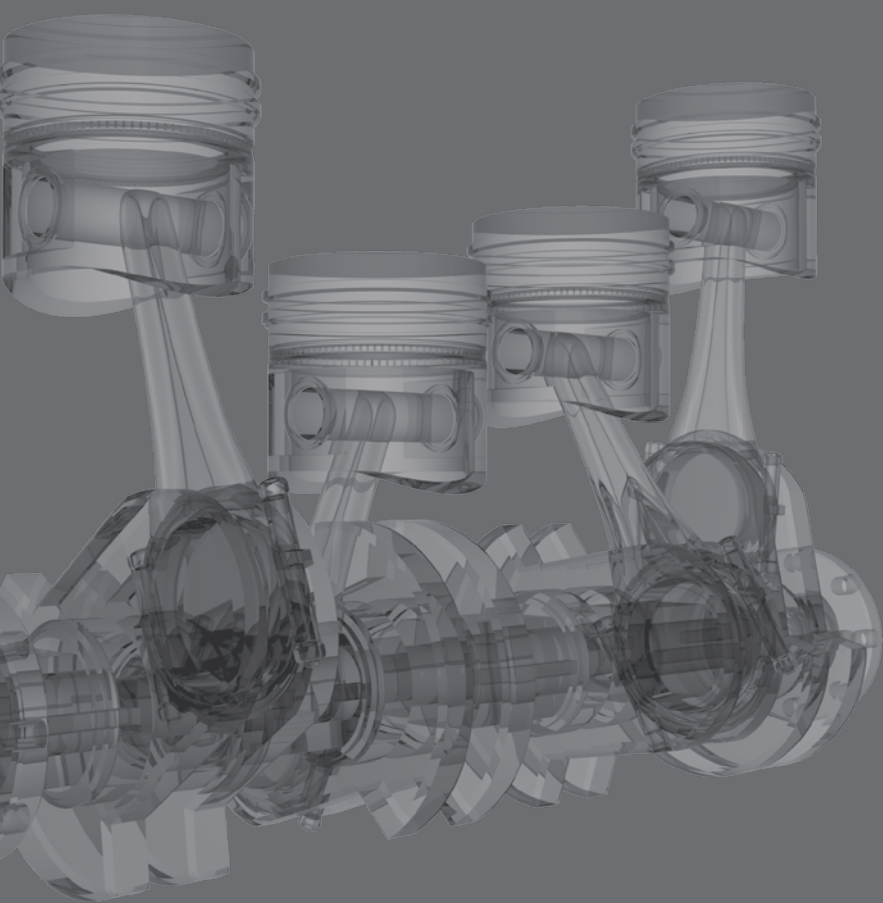
CATÁLOGO 2011 CATALOGUE

PISTONES AROS EJES CAMISAS PISTONS RINGS PINS LINERS

**Novedades
de este catálogo**

**Novelties in
this catalogue**

**Nouveautés
dans ce catalogue**



TARABUSI

GRUPO **CIE** AUTOMOTIVE

**NOVEDADES DE ESTE CATALOGO
NOVELTIES IN THIS CATALOGUE
NOUVEAUTES DANS CE CATALOGUE**

FABRICANTE MANUFACTURER CONSTRUCTEUR	MOTOR ENGINE MOTEUR	Ø	REF. Nº CODE Nr. CODE No.
CITROEN	9 HX, 9 HY, 9 HZ	75	70510.1
FIAT	Sofim, Euro 2, 8140.43.2585/3700/3731, 8140.23.2585/3700/371/3720/3721/3730/3731/3750/3760/3761/3811/3821/3861 Sofim, Euro 3, 8140.43S, Euro 3	94,4 94,4	90415.1 90416.1
FORD	HDDA, HDDB, HHDA, HHDB	75	70510.1
KNORR	Compresor Compresor	80 92	08024.1 09200.1
MAN	Compresor Compressor	100 100	00000.10 00000.9
MAZDA	DV6 TED4	75	70510.1
MERCEDES-BENZ	Compressor Compresor OM 613.960, OM 613.961, OM 611.980, OM 611.960 OM 611.961, OM 611.962, OM 611.980, OM 611.981, 987 Euro 3, OM 612.961, 962, OM 612.963, OM 612.965, 966, 981, OM 612.967, OM 613.960, OM 613.961 OM 646.951, OM 646.961, OM 646.962, OM 646.963, OM 646.982, OM 646.983, OM 647.981, OM 647.961, OM 648.960, OM 648.961	100 100 88 88 88	00000.9 00000.10 80819.1 80817.1 80818.1
NISSAN	F9Q800 G9T.722 Interstar YD25DDTI	80 87 89	80020.1 80706.1 80904.1
OPEL	G9T.720 Movano	87	80706.1
PEUGEOT	DV6 TED4 , DV6 ATED4, DV6 TED4 TU5JP4	75 78,5	70510.1 00000.01
R.V.I.	Compresor	100	00000.8
RENAULT	K9K, 712, 718, 724, 728, 729, 760, 766, 802 G9T, 700, 702, 703, 704, 706, 707, 708, 709, 712, 742, 743, 744 F9Q, 800, 812, F9Q, Euro 3, 750, F9Q, 800 G9T, 710, 720, 722, 750, G9T, 720 , G9T, 722 K9K, 732 Euro 4, 764, 780, 804, 806	76 87 80 87 76	70608.1 80705.1 80020.1 80706.1 70609.1

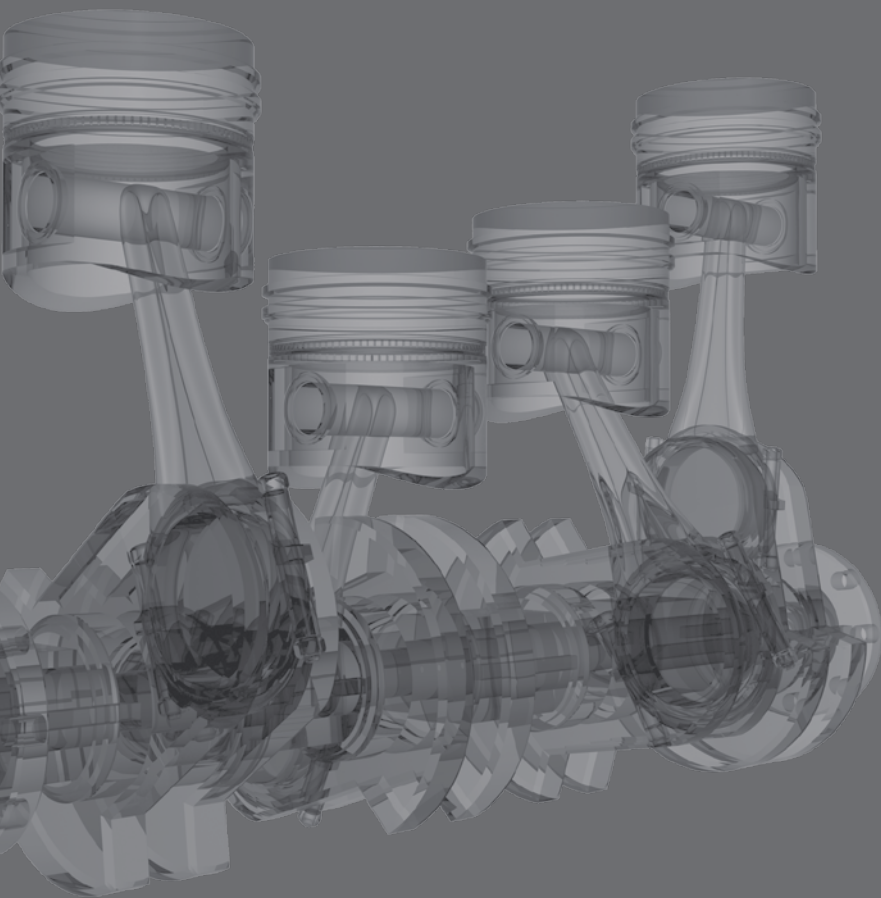
CATÁLOGO 2011 CATALOGUE

PISTONES AROS EJES CAMISAS PISTONS RINGS PINS LINERS

**Lista de
fabricantes**

**List of
manufacturers**

**Liste des
constructeurs**



TARABUSI

GRUPO **CIE** AUTOMOTIVE

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ISUZU	120	WABCO	300
IVECO	123	WESTINGHOUSE	302
-> FIAT	92		
-> KNORR	134		
JOHN DEERE-LANZ	126		
K.H.D.	130		
-> FIAT	92		
KNORR	134		
LADA	137		
-> CITROEN	70		
LAND ROVER	138		



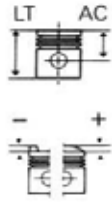





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A

Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								AUDI (See also Volkswagen)		
1.6 Ltrs.	Volkswagen	23:1	4/5	76.51	1588	40	54	80 D /LD /GLD /GL /C /CL /CC /CD, 4000 Diesel (USA)	70655.1	287
1.6 Ltrs.	Volkswagen	23/23.5:1	4/5	76.51	1588	51	70	80 Turbo C / CL /GL /CD /CC, 90 TD	70655.1	287
1.6 Ltrs.	Volkswagen	23:1	4/5	76.51	1588	59	80	90 TD, 80 TD	70655.1	287
1.9 AAZ	Volkswagen	22.5:1	4	79.51	1896	55	75	80 TD	70900.1	291
1800 S	Volkswagen	9/10:1	4	81.01	1781	65/81	88/110	Coupe GT, 80 GLE, Quattro, 100	08137.1	293
1800 S, DZ	Volkswagen	10:1	4	81.01	1781	82	112	80, Quattro	08137.1	293
1800 S, NE	Volkswagen	10:1	4	81.01	1781	66	90	80, Quattro	08137.1	293
2.0 Ltrs.	Volkswagen	23:1	4/5	76.51	1986	73	100	100 TD	70655.1	287
2.0 Ltrs.	Volkswagen	23:1	4/5	76.51	1986	51	70	100 5 D /Avant /L /GL /CD /C /CL /CC /CS, 5000 Diesel (USA)	70655.1	287
2.0 Ltrs.	Volkswagen	23:1	4/5	76.51	1986	64	87	100 Turbo CC /CD /CS /Avant, 5000 Turbo (USA)	70655.1	287
AAS, 3D, 2.4		22.5:1	5	79.5	2370	60	82	100	07950.1	53
AAT		20.5:1	5	81.01	2461	85	115	A6 TDI, 100 TDI	80120.1 80122.1	55 55
ABP, 1T		20:1	5	81.01	2461	85/88	115/120	100 TDI	80120.1 80122.1	55 55
AEL		20:1	5	81.01	2461	103	140	A6	80120.1 80122.1	55 55
AFN	Volkswagen	19.5:1	4	79.5	1896	81	110	A4, Quattro	70951.1 70952.1	280 280
AGR, AHV	Volkswagen	19.5:1	4	79.5	1896	66	90	A6, A4, A3	70952.1 70951.1	293 293
AJM	Volkswagen	19.5:1	4	79.5	1896	85	115	A4 Quattro 1.9 TDI (08 /1998...09 /2001), A6 1.9 TDI (01 /1998...04 /2001), A4 1.9 TDI (08 /1998...09 /2001)	70965.1 70964.1	288 288
ASZ	Volkswagen	19:1	4	79.5	1896	96	130	A3 1.9 TDI (05 /2000...06 /2003)	70968.1 70969.1	290 290
ATD	Volkswagen	19:1	4	79.50	1896	74	100	A3 1.9 TDI (01 /2001...06 /2003)	70966.1 70967.1	289 289



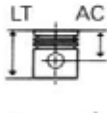
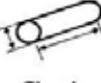
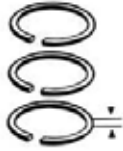


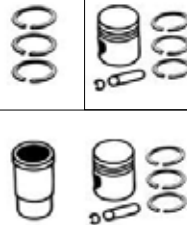
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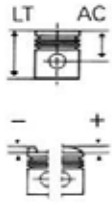
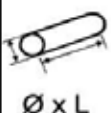
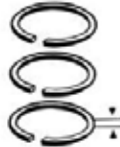



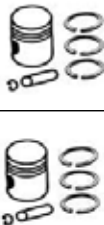
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
ATJ	Volkswagen	18:1	4	79.5	1896	85	115	A4 1.9 TDI (01 /2000...09 /2001)	70965.1 70964.1	288 288
AVB	Volkswagen	19:1	4	79.5	1896	74	100	A4 1.9 TDI (04 /2001...05 /2004)	70966.1 70967.1	289 289
AVF	Volkswagen	19:1	4	79.50	1896	96	130	A4 1.9 TDI (11 /2000...12 /2004), A6 1.9 TDI (06 /2001...01 /2005)	70968.1 70969.1	290 290
AWX	Volkswagen	19:1	4	79.5	1896	96	130	A6 1.9 TDI (06 /2001...01 /2005), A4 1.9 TDI (12 /2000...06 /2003)	70968.1 70969.1	290 290
AXR	Volkswagen	19:1	4	79.5	1896	74	101	A3 1.9 TDI (11 /2001...06 /2003)	70966.1 70967.1	289 289

			<p>Type</p>	 <p>Ø x L</p>				
1	2	3	4	5	6	7	8	8




AUDI



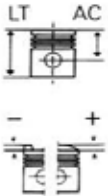

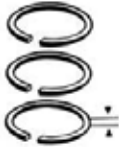




<p>1.6 Ltrs. 1588 cc, 23:1, 40 KW (54 HP) 1980... 4000 Diesel (USA) 80 D /LD /GLD /GL /C /CL /CC /CD</p> <p>1.6 Ltrs. 1588 cc, 23/23.5:1, 51 KW (70 HP) Turbocharged Diesel 1982-1988 80 Turbo C/ CL /GL /CD /CC 90 TD</p> <p>1.6 Ltrs. 1588 cc, 23:1, 59 KW (80 HP) 80 TD, 90 TD</p> <p>2.0 Ltrs. 1986 cc, 23:1, 73 KW (100 HP) Intercooler Turbocharged Diesel 1988... 100 TD</p> <p>2.0 Ltrs. 1986 cc, 23:1, 51 KW (70 HP) Oct. 1978... 100 5 D /Avant /L /GL /CD /C /CL /CC /CS, 5000 Diesel (USA)</p> <p>2.0 Ltrs. 1986 cc, 23:1, 64 KW (87 HP) Turbocharged Diesel 1982... 100 Turbo CC /CD /CS /Avant, 5000 Turbo (USA)</p>	<p>70655.1 76,51 4/5</p>							<p align="center">See Volkswagen</p>
<p>AJM 1896 cc, 19.5:1, 85 KW (115 HP) Turbodiesel A4 1.9 TDI (08/1998...09/2001) A4 Quattro 1.9 TDI (08/1998...09/2001), A6 1.9 TDI (01/1998...04/2001)</p> <p>ATJ 1896 cc, 18:1, 85 KW (115 HP) Intercooler A4 1.9 TDI (01/2000...09/2001)</p>	<p>70964.1 79,5 4 Cilindros 1/2 Cylinder</p>							<p align="center">See Volkswagen</p>

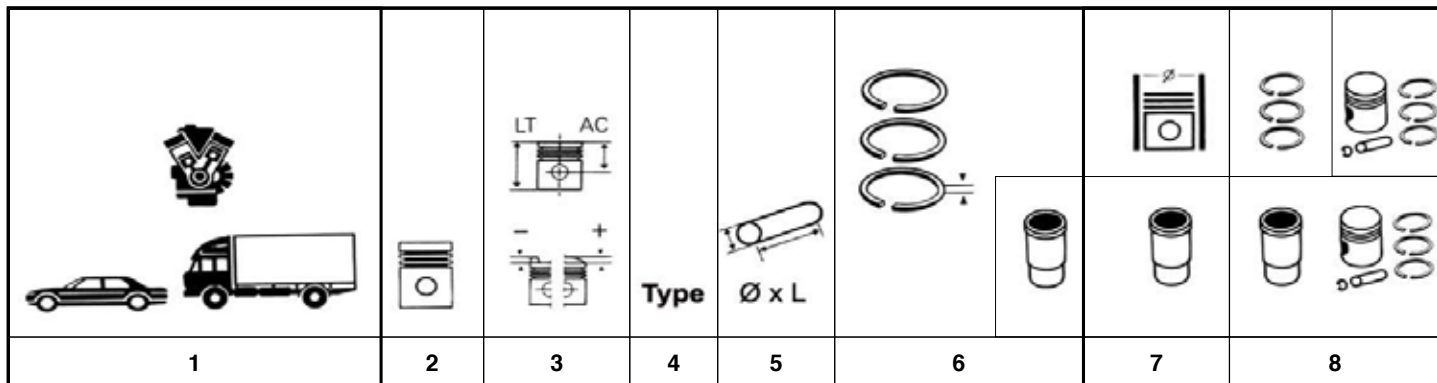
			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8
AUDI								
AJM 1896 cc, 19.5:1, 85 KW (115 HP) Turbodiesel A4 1.9 TDI (08/1998...09/2001) A4 Quattro 1.9 TDI (08/1998...09/2001), A6 1.9 TDI (01/1998...04/2001)	70965.1 79,5 4 Cilindros 3/4 Cylinder							See Volkswagen
ATJ 1896 cc, 18:1, 85 KW (115 HP) Intercooler A4 1.9 TDI (01/2000...09/2001)								See Volkswagen
ATD 1896 cc, 19:1, 74 KW (100 HP) Intercooler A3 1.9 TDI (01/2001...06/2003)	70966.1 79,5 4 Cilindros 1/2 Cylinder							See Volkswagen
AVB 1896 cc, 19:1, 74 KW (100 HP) Turbodiesel A4 1.9 TDI (04/2001...05/2004)	70967.1 79,5 4 Cilindros 3/4 Cylinder							See Volkswagen
ASZ 1896 cc, 19:1, 96 KW (130 HP) Intercooler A3 1.9 TDI (05/2000...06/2003)	70968.1 79,5 4 Cilindros 1/2 Cylinder							See Volkswagen
AVF 1896 cc, 19:1, 96 KW (130 HP) Intercooler A4 1.9 TDI (11/2000...12/2004) A6 1.9 TDI (06/2001...01/2005)								
AWX 1896 cc, 19:1, 96 KW (130 HP) Turbodiesel A4 1.9 TDI (12/2000...06/2003) A6 1.9 TDI (06/2001...01/2005)								

			<p>Type</p>						
1	2	3	4	5	6	7	8	8	8

AUDI

<p>ASZ 1896 cc, 19:1, 96 KW (130 HP) Intercooler A3 1.9 TDI (05/2000...06/2003)</p> <p>AVF 1896 cc, 19:1, 96 KW (130 HP) Intercooler A4 1.9 TDI (11/2000...12/2004) A6 1.9 TDI (06/2001...01/2005)</p> <p>AWX 1896 cc, 19:1, 96 KW (130 HP) Turbodiesel A4 1.9 TDI (12/2000...06/2003) A6 1.9 TDI (06/2001...01/2005)</p>	<p>70969.1 79,5 4</p> <p>Cilindros 3/4 Cylinder</p>							<p>See Volkswagen</p>
<p>AAS, 3D, 2.4 2370 cc, 22.5:1, 60 KW (82 HP) Diesel Aug. 1989... 100</p>	<p>07950.1 79,51 5</p>   <p>07-9406</p>	<p>39,65 -1,9 x 65,7</p> <p>39,4 -1,9 x 65,7</p>	<p>IN ALM VC</p>	<p>24 x 64</p>	<p>1 394' 1,750 1 095' 2,000 1 533 3,000</p> <p>1 394' 1,750 1 995' 2,000 1 533 3,000</p>	<p>Std. .25</p> <p>.50 1.00</p> <p>.50 1.00</p>	<p>7348600 6348602 7348611 6348613</p> <p>7348622 6348624 7348633 6348635</p> <p>7378512 6378514 7378523 6378525</p>	<p>4422213 A=82.5 L=152 C=85.5 H= 4.7</p> 
<p>1.9 AAZ 1896 cc, 22.5:1, 55 KW (75 HP) Catalizador Turbocharged Diesel 1992... 80 TD</p>	<p>70900.1 79,51 4</p>							<p>See Volkswagen</p>

			Type	 $\varnothing \times L$				 
1	2	3	4	5	6	7	8	8
AUDI								
AFN 1896 cc, 19.5:1, 81 KW (110 HP) Catalizador Turbocharged Diesel Intercooler 09/95... A4, Quattro	70951.1 79,51 4							See Volkswagen
AGR, AHV 1896 cc, 19.5:1, 66 KW (90 HP) Intercooler Turbocharged Diesel 07/96... A3 A4, A6	70952.1 79,51 4							See Volkswagen
1800 S 1781 cc, 9/10:1, 65/81 KW (88/110 HP) Catalizador 1982... 100, 80 GLE, Quattro, Coupe GT	08137.1 81,01 4							See Volkswagen
1800 S, DZ 1781 cc, 10:1, 82 KW (112 HP) 80, Quattro								
1800 S, NE 1781 cc, 10:1, 66 KW (90 HP) 1986-1991 80, Quattro								



AUDI

1	2	3	4	5	6	7	8
AAT 2461 cc, 20.5:1, 85 KW (115 HP) Diesel Turbocharged-Intercooled 100 TDI 91 ... 94 A6 TDI 94 ... 97	80120.1	45.75	IN CB VC	26	1 653' 2,500	Std.	7380704 6385002
	81,01	-1.35-17.2		x	1 095 2,000		
ABP, 1T 2461 cc, 20:1, 85/88 KW (115/120 HP) Diesel Turbocharged-Intercooled 100 TDI 90 ... 92	5	69.75	CB VC IN	68	1 533 3,000	.50	7380726 6385013
		45.50		-1.35-17.2	x		
AEL 2461 cc, 20:1, 103 KW (140 HP) Turbocharged-Intercooled Diesel A6 94 ... 97	08-0301		CB VC IN	Cilindros 1/2 Cylinder			
		45.75		-1.35-17.2	x		
	80122.1	45.75	CB VC IN	26	1 653' 2,500	Std.	7380704 6385105
	81,01	-1.35-17.2		x	1 095 2,000		
	5	69.75	CB VC IN	68	1 533 3,000	.50	7380726 6385116
		45.50		-1.35-17.2	x		
	08-0301			Cilindros 3/4/5 Cylinder			



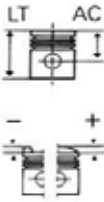

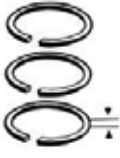






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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								AUSTIN (See Perkins)		
PRIMA 65	Perkins	18.1:1	4	84.44	1993	46	62	Montego, Maestro	80444.1	211
PRIMA 80T	Perkins	17.2:1	4	84.44	1993	59	80		80445.1	211

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								B M W		
M 51 D 25 WA		22:1	6	80	2503	85	115	525 td, 325 td	80452.1	58
M 51 D 25 WA KAT		22:1	6	80	2497	105	143	325 tds, 525 tds	80452.1	58
M41		22:1	4	80	1675	66	90	318 tds	80452.1	58

B

			Type	 $\varnothing \times L$				 	 	
1	2	3	4	5	6			7	8	
B M W										
<p>M 51 D 25 WA 2503 cc, 22:1, 85 KW (115 HP) Turbocharged Diesel 325 td 1991 ... 525 td 1992 ...</p> <p>M 51 D 25 WA KAT 2497 cc, 22:1, 105 KW (143 HP) Turbocharged-Intercooled 525 tds 1991 ... 325 tds 1993 ...</p> <p>M41 1675 cc, 22:1, 66 KW (90 HP) Turbocharged-Intercooled 1994... 318 tds</p>	80452.1 80 4/6   08-0202	39.45 -2.5 x 65.95	 IN G	27 x 63	1 398' 1 095 1 533	3,000 1,750 3,000	Std. .50 1.00	7382605 7382616 7382620	6382600 6382611 6382622	

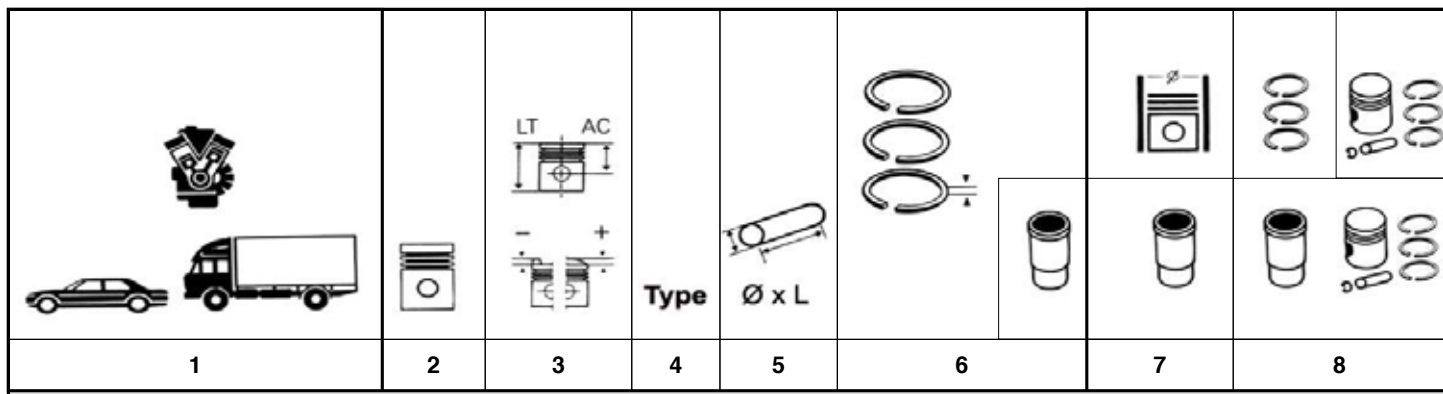
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B

Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
BEDFORD (See Isuzu, Suzuki)										
4FD1	Isuzu	21.5:1	4	88	2238	45	61	MIDI 2.2 L	80816.1	122
F10A	Suzuki	8.8:1	4	65.5	970	33	45	Rascal	06167.1	277



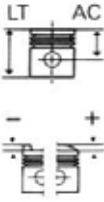
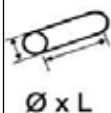
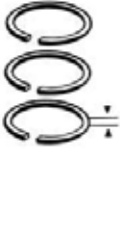

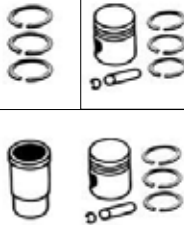
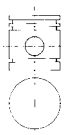
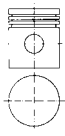
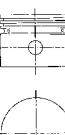
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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
BENDIX										
15 W37, WB15			2	75				Compresor	07647.1	62
15-5 W37, W31			2	75				Compresor	07647.1	62
Compresor			2	60.325					06042.1	61
Compresor			1	80					08033.1	62
PCG-508			1	66.675				Compresor	06721.8	62
TU-FLO 500			2	63.5				Compresor	06351.1	61
TU-FLO 500			2	63.5				Compresor		61



BENDIX

1	2	3	4	5	6	7	8
Compresor	06042.1 60,325 2,375" 2 06-0033	30.99 x 53.98		15.875 x 50.8	1 055 3,969 1 055 3,969 1 055 3,969	Std. .020 .030 .040 .060	7322000 6322002 7322011 6322013 7322022 6322024 7322033 6322035 7322044 6322046
TU-FLO 500 Compresor	63,5 2,500" 2 Cast Iron Piston not available Piston de Hierro no disponible				1 045 2,385 1 045 2,385 1 030 3,160 1 045 2,385 1 045 3,160 1 045 2,385 1 045' 2,385 1 030 3,160 1 045 2,385 1 045 3,160	Std. .010 .020 .030	7317004 7317015 7317026 7317030 7317041
TU-FLO 500 Compresor	06351.1 63,5 2,500" 2 06-9001 Aluminium Piston available Pistón de Aluminio disponible	26,85 x 50		13.494 x 56	1 045 2,381 1 045 2,381 1 030 2,381	Std. .010 .020 .030 .040	7337901 6337903 7337912 6337914 7337923 6337925 7337934 6337936 7337945 6337940



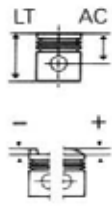

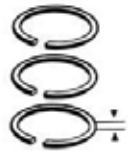



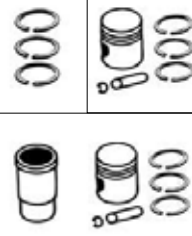

1	2	3	4	5	6	7	8
BENDIX							
			Type	 $\varnothing \times L$			
PCG-508 Compresor	06721.8† 66,675 2,625" 1  06-1072	21,97 x 44,2		11.112 x 57.15	1 055 1,984 1 055 1,984 1 055 1,984 1 055 1,984 1 030 3,969	Std.	7431001
15 W37, WB15 Refrigerado por aire Compresor 15-5 W37, W31 Refrigerado por agua Compresor	07647.1 75 2,953" 2  07-4976	32,13 x 52,78		15.875 x 60.3	1 023 2,381 1 023 2,381 1 232 3,968	Std. .010 .020 .030 .040	7343700 6231105 7343722 6231131 7343733 6231116 7343744 6231142 7343755 6231153
Compresor 250 cm ³	08033.1 80 1  08-9903	33.5 x 55		16 x 70	1 083 2,000 1 083 2,000 1 232 4,000	Std. .50 1.00	7372606 6372601 7372610 6372612 7372621 6372623

† Hasta agotar existencias / Availability only from stock.

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
CAMPEON										
D 1700, 2 cyl.		16:1	2	100	1728	22	30		10239.1	64
D 2600, 3 cyl.		16:1	3	100	2592	33	45		10239.1	64
D 3400, 4 cyl.		16:1	4	100	3456	44	60		10239.1	64
D 850, 1 cyl.		16:1	1	100	864	11	15		10239.1	64

C

			Type	 $\varnothing \times L$				 		
1	2	3	4	5	6		7	8		
CAMPEON										
<p>D 1700, 2 cyl. 1728 cc, 16:1, 22 KW (30 HP)</p> <p>D 2600, 3 cyl. 2592 cc, 16:1, 33 KW (45 HP)</p> <p>D 3400, 4 cyl. 3456 cc, 16:1, 44 KW (60 HP) Inyección Diesel Directa</p> <p>D 850, 1 cyl. 864 cc, 16:1, 11 KW (15 HP)</p>	10239.1	75		32	1	341	2,500	Std.	7141201	6141203
	100	-2-21,3		x	1	022	2,500	.50	7141212	6141214
	1/2/3/4	x		87	1	533	5,000	1.00	7141223	6141225
	130									
	10-0056									

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								CASE (See International-Harvester)		
BD 154	International-Harvester		4	88.9	2520				08578.1	117
D 155, UD 155	International-Harvester	16:1	3	98.425	2533	25.5/43	35/58.5		90014.1	119
									90013.1	119
D 268	International-Harvester	15/16:1	4	100	4386	56.5/64.5	77/88		10284.1	119
D 310, UD 310	International-Harvester	16:1	6	98.425	5070	62/90.5	84/123		90014.1	119
									90013.1	119
D 358, UD 358	International-Harvester	16:1	6	98.425	5870	66/104	90/141.5		90011.1	118
									90012.1	118
DD 179, UD 179	International-Harvester	16:1	3	98.425	2933	35.5/50	48/68		90012.1	118
									90011.1	118
DD 206, HD 206	International-Harvester	16:1	4	98.425	3382	39.5/58	54/79		90014.1	119
									90013.1	119
DD 239	International-Harvester	16:1	4	98.425	3911	47/67	64/91		90011.1	118
									90012.1	118
DT 239	International-Harvester	16:1	4	98.425	3920	62.5	85		90017.1	117
DT 358	International-Harvester	16:1	6	98.425	5867	88/126.5	120/172		90017.1	117

C





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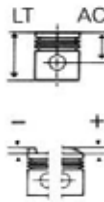

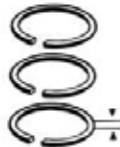


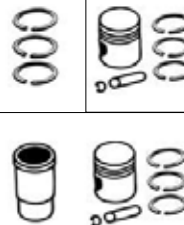
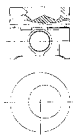
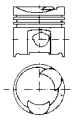
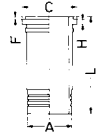
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
CATERPILLAR										
3116		16:1	6	105	6600	224	302	...2B411804	10502.1	67
3116		17:1	6	105	6600			Serial 2B41805...	10508.1	67
3208			8	114.3				Serial N° 90N1... /40S1... /79V1... /75V1...75V4001	11445.1	68
3208			8	114.3		128	175	and above, 61X1... /71M2549... /38W5539... /79V5381..., Serial N° 90N6121... /3Z1... /40S1... /32Y1... /2Z1... /51Z1... /75V4002... /1Z1... /79V1408... /	11447.1	69
3208 HA			8	114.3					11433.1	67
3208 TA			8	114.3					11437.1	68
3304			4/6	120.65				Crawler Dozer D4D, Motor Grader 112 F, Whell Type Loader 920 /922 B /930 /950, Skidder 518, From serial N° 2B4364 UP / 78P1 UP / 46V1 UP / 48V1 UP, Track Type Loader 941 /941 B /951 /951 B /951 C /955 K /955 L, Pipelayer 561C	12080.1	69
3306			4/6	120.65				From serial N° 23C740 UP / 3N1 UP / 44V1 UP / 47V1 UP / 49V1 UP, Crawler Dozer D5 /D6C /D7F, Track Type Loader 977 K /977 L, Whell Type Loader 966 C, Compactor.Wheel Tractor 814 /815 /816, Skidder 528, Pipelayer 571 F /572 F, Motor Grader 12 E /12 F /14 E /120 /120 B /140	12080.1	69
D 333 C			4/6	120.65				From serial N° 23C1 to 23C739	12080.1	69
DD 330 C20			4/6	120.65				Whell Type Loader 922 B /944, From serial N° 2B1 to 2B4363, Crawler Dozer D4D, Track Type Loader 951 B	12080.1	69

1	2	3	4	5	6	7	8

CATERPILLAR

3116 6600 cc, 16:1, 224 KW (302 HP) Turbocharged Diesel ...2B411804	10502.1 105 6 10-0002	59,1 -15,7 x 93,3	IN2	40 x 85	1 398' 3,160 1 058' 3,160 1 533 4,000	Std.	7378604 6378606
3116 6600 cc, 17:1, Turbocharged Diesel Serial 2B41805...	10508.1 105 6 10-0002	59,1 -14,35 x 93,3	IN2	40 x 85	1 398' 3,160 1 058' 3,160 1 533 4,000	Std.	7378604 6378702
3208 HA Diesel	11433.1 114,3 4,500" 8 11-0101 Sólo Pistón+Bulón+Anillos Only Piston+Pin+Circlips	58,88 -18,08 x 93,22	IN2	38.115 x 81.3	Std. .020 .040	6380802 6380813 6380824	

1	2	3	4	5	6	7	8
CATERPILLAR							
3208 TA Turbocharged Diesel	11437.1 114,3 4,500" 8   11-0101	58,88 -19,08 x 93,22	IN2	38.115 x 81.3		Std. .020 .040	6380905 6380916 6380920
3208 Diesel Serial N° 90N1... /40S1... /79V1... /75V1...75V4001	11445.1 114,3 4,500" 8   11-0101	58,88 -20,88 x 93,22	P+B IN	38.115 x 81.3		Std. .020 .040	6379100 6379111 6379122

			<p>Type</p>	 <p>Ø x L</p>				
1	2	3	4	5	6	7	8	
CATERPILLAR								
<p>3208 128 KW (175 HP) and above, Serial N° 90N6121... /3Z1... /40S1... /32Y1... /2Z1... /51Z1... /75V4002... /1Z1... /79V1408... / 61X1... /71M2549... /38W5539... /79V5381...</p>  <p>11-0102</p> <p>Only Piston+Pin+Circlip Sólo Pistón+Bulón+Anillos</p>	<p>11447.1 114,3 4,500" 8</p>	<p>58,88 -20,88 x 93,22</p>	<p>P+B IN</p>	<p>38.115 x 81.3</p>		<p>Std. .020 .040</p>	<p>6379203 6379214 6379225</p>	
<p>3304 From serial N° 2B4364 UP/ 78P1 UP / 46V1 UP / 48V1 UP, Track Type Loader 941 /941 B /951 /951 B /951 C /955 K /955 L Crawler Dozer D4D, Motor Grader 112 F, Pipelayer 561C, Skidder 518, Whell Type Loader 920 /922 B /930 /950</p> <p>3306 From serial N° 23C740 UP/ 3N1 UP / 44V1 UP/ 47V1 UP/ 49V1 UP Compactor Wheel Tractor 814 /815 /816, Crawler Dozer D5 /D6C /D7F, Motor Grader 12 E /12 F /14 E /120 /120 B /140, Pipelayer 571 F /572 F, Skidder 528, Track Type Loader 977 K /977 L, Whell Type Loader 966 C</p> <p>D 333 C From serial N° 23C1 to 23C739</p> <p>DD 330 C20 Diesel Crawler Dozer D4D, From serial N° 2B1 to 2B4363 Track Type Loader 951 B, Whell Type Loader 922 B /944</p>  <p>12-8501</p>	<p>12080.1 120,65 4,750" 4/6</p>	<p>73.9 -6.67-7.25 -14.2 x 115.05</p>	<p>IN2</p>	<p>38.12 x 94.8</p>	<p>1 301' 3,175 1 345' 2,381 1 530 5,556</p> 	<p>Std. 4071012 A=134,4 L=255.2 C=143 H+F= 10.3+1</p>	<p>7429903 6429905 5429900</p>	

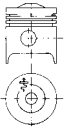
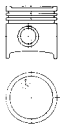
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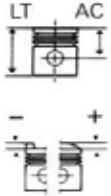

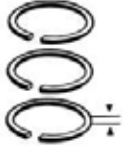




Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
CITROEN (See also Fiat, Peugeot)										
129/5		9.3:1	4	75	1219	47	64	Visa II Super X	07784.1	73
150A, 150C		9.3:1	4	75	1360	44/59	60/80	Visa GT, BX 14 E /ER, Visa TRS Stilo, C 15 E (1360 cc) Furgoneta, BX Caribe	07784.1	73
159 A		9.3:1	4	83	1905	77	105	BX 19	08157.1	76
159 A		9.3:1	4	83	1905	72/77	98/105	BX 19	08157.1	76
171 BZ/C (XU5S)		9.5:1	4	83	1580	68/69	92,5/94	BX 16 RS /TRS /Break /Automatic, BX 15	08156.1	76
180A (X U5J)		9.8:1	4	83	1580	75/77	102/105	Visa GTI, BX 16 TRI	08155.1	75
829A5		9.2:1	4	88	1995	78	106	CX 20 Athena /GT /Reflex /Break /Familiale /Pallas /TRE	08819.1	79
9 HX		17.6:1	4	75	1560	66	92	Berlingo /Saxo SX /VSX, C3 1.6 HDi 16V 09 /2005..., C4 1.6 HDi 16V 11 /2004..., C5 1, 6 HDi 16V 11 /2004..., Jumpy 1, 6 HDi 16V 01 /2007...	70510.1	74
9 HY		18:1	4	75	1560	80	109	C4 1.6 HDi 16V 11 /2004..., C5 1.6 HDi 16V 10 /2004...	70510.1	74
9 HZ		18:1	4	75	1560	80	109	C2 1.6 HDi 16V 2006..., C4 1.6 HDi 16V 11 /2004..., C5 1.6 HDi 16V 10 /2004..., Grand C4 Picasso 1.6 HDi 16V 10 /2006..., Berlingo 1, 6 HDi 16V 10 /2005...	70510.1	74
D16A (XU9J2)		9.3:1	4	83	1905	92	125	ZX, BX 19 GTI	08301.1	76
DJ5		24:1	4	92	2446			Jumper 2.5 D	90213.1	80
DK5 ATE, DJ5 T	Peugeot	21/24:1	4	92	2446	76/96	103/130	Evasión, Jumper, XM, VSX	90212.1	241
DV4 TD.HDI	Peugeot	18:1	4	73.7	1398	50	68	C 3 (2002...), C 2 (2003...), Xsara, (2002...)	70300.1	233
DW 10 ATED 3 KAT /RHZ KAT		17.6:1	4	85	1997	81	110	Jumpy 2.0 HDI, Xantia 2.0 HDI, Evasión 2.0 HDI, Xsara 2.0 HDI, C 5 2.0 HDI	80534.1	78
DW 10 TD KAT /RHY KAT		17.6:1	4	85	1997	66	90	Berlingo 2.0 HDI, Xantia 2.0 HDI	80534.1	78
DW 10 TED KAT		17.6:1	4	85	1997	81	110	Xsara Picasso 2.0 HDI	80534.1	78
DW8			4	82.2	1868			Berlingo 1.9, Jumpy 1.9, Xsara 1.9	80222.1	75

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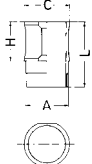
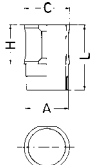
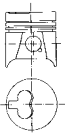
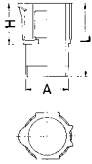
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
M22/629, M25 /629/660/661	Fiat	22.25:1	4	93	2499	55	75	C 35 RD, Super Break /Confort /Familiare Super /Reflex Break / Prestige, CX 25 D /RD /TRD /Pallas	90301.1	97
TU - K1A / K1G		9.3:1	4	75	1360	48/51	65/70	AX 14 TRS /TZS	07524.1	72
TU1M - H1A		9.4:1	4	72	1124	40/44	55/60	AX 11 RE /11 TRE /Stilo /Saporo, Berlingo /Saxo, ZX Reflex, AX /BX	07200.1	72
TU3 MZ		9.3:1	4	75	1360	55	75	Berlingo /Saxo SX /VSX, C 15 Furgoneta /ZX Avantage, Xsara	07524.1	72
TUD3		22:1	4	75	1361	39	53	ZX, AX 1.4 D	70508.1	73
TUD5	Peugeot	23:1	4	77	1527	42	57	Xsara, Saxo, AX	70700.1	235
XD3P	Peugeot	23:1	4	94	2498	51/56	70/76	SXD	90411.1	243
XU 10J2		9.5:1	4	86	1998	90	123	XM, Xantia, Evasión 2.0 X, ZX	08607.1	79
XU 10J4		10.4:1	4	86	1998	112	152	Xsara 2.0 16V VTS, BX 16S /XANTIA 16V /ZX 16S	08837.1	79
XU 5JPZ		9.25:1	4	83	1580	65	88	ZX 1.6i, Xantia 1.6	08317.1	77
XU92C		9.3:1	4	83	1905	77	105	BX 19	08301.1	76
XUD 7 (161A)		23:1	4	80	1769	44	60	BX 1.7 D, Visa 17 D /RD /Entreprise, C 15 D Comercial, Berlingo	80032.1	74
XUD 7 TE		22:1	4	80	1769	66	90	BX 19 TGD /TZD /Image Turbo, BX TRD /TZD Turbo, Evasión BX RD /TGD /T2D Turbo	80047.1	75
XUD 9		23.5:1	4	83	1905	48	65	Xantia, BX 19 D /TRD /Break /Enterprise, C 25 D, ZX, Berlingo	80374.1	78
XUD 9 TE		21.8:1	4	83	1905	66	92	Xantia Turbodiesel, ZX Turbodiesel, BX Turbodiesel, Jumper	80300.1	77
XUD 9 TF		21.8:1	4	83	1905	68	92	Jumpy	80300.1	77



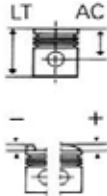

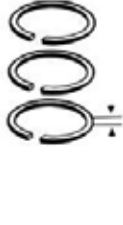

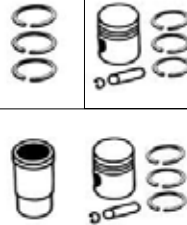




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1	2	3	4	5	6			7	8	
CITROEN										
TU1M - H1A 1124 cc, 9.4:1, 40/44 KW (55/60 HP) AX /BX 1988 ... ZX Reflex 1992 ... Berlingo /Saxo 1996 ... AX 11 RE /11 TRE /Stilo /Saporo Mar. 1987 ...	07200.1 72 4  07-4979	40.05 +2.97 x 67.02	CIN	19.5 x 62 F	1 301' 1 022 1 231	1,500 2,000 3,000	Std. 4081114 A=79.5 L=122.5 C=89.2 H= 85	7325706 6325701 5325703		
DV4 TD.HDI 1398 cc, 18:1, 50 KW (68 HP) Turbo Inyección C 2 (2003...) C 3 (2002...), Xsara, (2002...)	70300.1 73,7 4							See Peugeot		
TU - K1A / K1G 1360 cc, 9.3:1, 48/51 KW (65/70 HP) 10/1986... AX 14 TRS /TZS TU3 MZ 1360 cc, 9.3:1, 55 KW (75 HP) C 15 Furgoneta /ZX Avantage 1993 ... Berlingo /Saxo SX /VSX 1996 ... Xsara 1997 ...	07524.1 75 4  07-8979	40,5 -1,04 x 64	CIN	19.5 x 62 F	1 301' 1 023 1 231	1,750 2,000 3,000	Std. 4080112 A=79.5 L=135.4 C=89.2 H= 90	7323503 6313005 5313000		










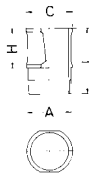




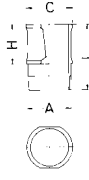
			Type	 Ø x L		 	 
1	2	3	4	5	6	7	8

CITROEN

<p>129/5 1219 cc, 9.3:1, 47 KW (64 HP) Visa II Super X</p> <p>150A, 150C 1360 cc, 9.3:1, 44/59 KW (60/80 HP) BX 14 E /ER, BX Caribe, C 15 E (1360 cc) Furgoneta, Visa GT, Visa TRS Stilo</p>	<p>07784.1</p> <p align="center">75</p> <p align="center">4</p>  <p>07-8979</p>	<p>40,5</p> <p align="center">x</p> <p align="center">65,5</p>	<p align="center">CIN</p>	<p>19.5</p> <p align="center">x</p> <p align="center">65</p> <p align="center">F</p>	<table border="0"> <tr> <td>1</td> <td>301'</td> <td>1,750</td> </tr> <tr> <td>1</td> <td>005</td> <td>2,000</td> </tr> <tr> <td>1</td> <td>231</td> <td>4,000</td> </tr> </table>  	1	301'	1,750	1	005	2,000	1	231	4,000	<p>Std.</p> <p>4080112 A=79.5 L=135.4 C=89.2 H= 90</p> <p>4078911 A=79.5 L=122.5 C=89.2 H= 85</p>	<p>7107100 6107102</p> <p align="center">5176404 (150A, 150C Engine CITROEN) (XY6B Engine PEUGEOT) (150 A 700 Engine RENAULT)</p> <p align="center">5107104 (129 /5 Engine CITROEN) (XZ25 Engine PEUGEOT) (129 A 700 Engine RENAULT)</p>
1	301'	1,750														
1	005	2,000														
1	231	4,000														
<p>TUD3 1361 cc, 22:1, 39 KW (53 HP) Diesel 1988... AX 1.4 D ZX</p>	<p>70508.1</p> <p align="center">75</p> <p align="center">4</p>  <p>07-9405</p>	<p>42,96</p> <p align="center">-1,5</p> <p align="center">x</p> <p align="center">68,96</p>	<p align="center">IN H ATM</p>	<p>23</p> <p align="center">x</p> <p align="center">63</p>	<table border="0"> <tr> <td>1</td> <td>640'</td> <td>2,250</td> </tr> <tr> <td>1</td> <td>005</td> <td>1,750</td> </tr> <tr> <td>1</td> <td>533</td> <td>3,000</td> </tr> </table> 	1	640'	2,250	1	005	1,750	1	533	3,000	<p>Std.</p> <p>4118111 A=79.5 L=135 C=0 H= 90</p>	<p>7346006 6346001</p> <p align="center">5346003</p>
1	640'	2,250														
1	005	1,750														
1	533	3,000														



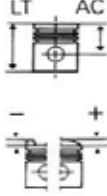

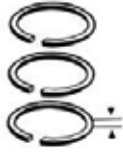






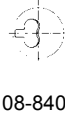
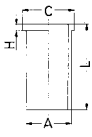


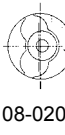
			Type	 $\varnothing \times L$						
1	2	3	4	5	6			7	8	
CITROEN										
9 HX 1560 cc, 17.6:1, 66 KW (92 HP) Berlingo /Saxo SX /VSX, C3 1.6 HDi 16V 09 /2005... C4 1.6 HDi 16V 11 /2004..., C5 1.6 HDi 16V 11 /2004..., Jumpy 1,6 HDi 16V 01/2007... 9 HY 1560 cc, 18:1, 80 KW (109 HP) C4 1.6 HDi 16V 11/2004... C5 1.6 HDi 16V 10/2004... 9 HZ 1560 cc, 18:1, 80 KW (109 HP) Berlingo 1,6 HDi 16V 10 /2005..., C2 1.6 HDi 16V 2006... C4 1.6 HDi 16V 11 /2004..., C5 1.6 HDi 16V 10 /2004..., Grand C4 Picasso 1.6 HDi 16V 10 /2006...	70510.1 75 4   07-0901	41.7 -1.16-13.2 x 65.3	IN G	26 x 61	1 603' 1 023' 1 533'	3,000 1,950 2,500	Std. .50	7395006 7395010	6395001 6395012	
TUD5 1527 cc, 23:1, 42 KW (57 HP) Xsara 07/97 AX 1995 ... Saxo 1996 ...	70700.1 77 4							See Peugeot		
XUD 7 (161A) 1769 cc, 23:1, 44 KW (60 HP) Diesel C 15 D Comercial, Visa 17 D /RD /Entreprise 1984 ... BX 1.7 D 1987 ... 1992 Berlingo 1996 ...	80032.1 80 4   08-8505	46,8 -2 x 84,5	H	25 x 69.8	1 301' 1 005 1 533	2,000 2,000 3,000	Std. .50 .80 1.00 4421616 A=83 L=154 C=86 H= 4.5	7244506 7244510 7244521 7244532	6244501 6244512 6244523	









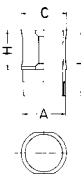
1	2	3	4	5	6	7	8	8
CITROEN								
XUD 7 TE 1769 cc, 22:1, 66 KW (90 HP) Turbocharged Diesel BX TRD/TZD Turbo BX 19 TGD/TZD /Image Turbo, Evasión BX RD/TGD /T2D Turbo	80047.1 80 4	46,8 -2,2 x 84,5	IN A	28 x 68	1 608' 3,000 1 005' 2,000 1 533 3,000	Std. .50 .80	4421616 A=83 L=154 C=86 H= 4.5	7315405 6315400 7315416 6315411 7315420 6315422
DW8 1868 cc, Diesel Berlingo 1.9 Jumpy 1.9 1996 ... Xsara 1.9 1998 ...	80222.1 82,2 4	46.7 -1.25 x 78		25 x 66.7	1 394' 2,000 1 023 2,000 1 533 3,000	Std. .60		7385302 6385304 7385313 6385315
180A (X U5J) 1580 cc, 9.8:1, 75/77 KW (102/105 HP) Fuel Injection 1984... Visa GTI, BX 16 TRI	08155.1 83 4	37,5 -1,45 x 67,5	ATM	22 x 66.2 F	1 301' 1,750 1 005 1,750 1 231 4,000	Std. A=88.6 L=141 C=97 H= 95.2	4086213	7342204 6342206 5342201



1	2	3	4	5	6	7	8
CITROEN							
<p>171 BZ/C (XU5S) 1580 cc, 9.5:1, 68/69 KW (92,5/94 HP) Carburador BX 16 RS /TRS /Break /Automatic 1984 ... BX 15 1987 ...</p>  	<p>08156.1 83 4</p>   <p>08-8901</p>	<p>37,5 -2,1 x 67,5</p>	<p>ATM</p>	<p>22 x 66,2 F</p>	<p>1 301' 1,750 1 005 1,750 1 231 4,000</p> 	<p>Std. 4086213 A=88.6 L=141 C=97 H= 95.2</p>	<p>7342204 6342501 5342503</p>
<p>159 A 1905 cc, 9.3:1, 77 KW (105 HP) 1984..... BX 19</p> <p>159 A 1905 cc, 9.3:1, 72/77 KW (98/105 HP) Inyección Catalizador Aug. 1988..... BX 19</p>  	<p>08157.1 83 4</p>   <p>08-8901</p>	<p>37,5 x 67,5</p>	<p>ATM</p>	<p>22 x 66,2 F</p>	<p>1 600' 1,500 1 005 1,500 1 231 4,000</p> 	<p>Std. 4086213 A=88.6 L=141 C=97 H= 95.2</p>	<p>7341902 6341904 5341906</p>
<p>D16A (XU9J2) 1905 cc, 9.3:1, 92 KW (125 HP) BX 19 GTI 06/1986 ZX 1993 ...</p> <p>XU92C 1905 cc, 9.3:1, 77 KW (105 HP) 1986-07/1988 BX 19</p>  	<p>08301.1 83 4</p>   <p>08-9302</p>	<p>37,5 -9 x 67,5</p>	<p>ATM</p>	<p>22 x 66,2 F</p>	<p>1 600' 1,500 1 005 1,500 1 231 4,000</p> 	<p>Std. 4086213 A=88.6 L=141 C=97 H= 95.2</p>	<p>7341902 6342103 5342105</p>

			Type					
1	2	3	4	5	6	7	8	

CITROEN									
XU 5JPZ 1580 cc, 9.25:1, 65 KW (88 HP) Inyección Catalizador 1993... Xantia 1.6 ZX 1.6i	08317.1	37.5	ATM	22	1	301'	1,500	Std.	7350000 6350002
	83	-1.95							
	4	67.5		F	1	232	3,000		
								4086213 A=88.6 L=141 C=97 H= 95.2	5350004
XUD 9 TE 1905 cc, 21.8:1, 66 KW (92 HP) Turbo Intercooler BX Turbodiesel 1992 ... ZX Turbodiesel 1993 ... Xantia Turbodiesel 1994 ... Jumper 1995 ...	80300.1	46.8	A IN VC	28	1	690'	3,000	Std.	7384403 6384405
	83	-2.2-3.5							
	4	79.3			1	533	3,000		
		46.65						.50	7384414 6384416
		-2.2-3.5						.80	7384425 6384420
		x			1	690'	3,500	Std.	7349506
	08-9601	79.3			1	005	2,000	.50	7349510
					1	533	3,000	.80	7349521
XUD 9 TF 1905 cc, 21.8:1, 68 KW (92 HP) Turbocharged Diesel Intercooler Oct. 1995... Jumpy									

			Type	 $\varnothing \times L$			 	 
1	2	3	4	5	6	7	8	
CITROEN								
XUD 9 1905 cc, 23.5:1, 48 KW (65 HP) Diesel BX 19 D /TRD /Break /Enterprise 1983 ... C 25 D 1987 ... ZX 1991 ... Xantia 1993 ... Berlingo 1996 ...	80374.1 83 4   08-8403	46,8 -2,2 x 84,3	H	25 x 72	1 301' 2,000 1 005 2,000 1 533 3,000	Std. .40 .50 .60 .80  4419516 A=86 L=153.5 C=89 H= 4.8  4419612 A=86 L=153.5 C=0 H= 0	7225201 6225203 7225223 6225225 7225212 6225214 7225234 6225236 7225245 6225240	
DW 10 ATED 3 KAT /RHZ KAT 1997 cc, 17.6:1, 81 KW (110 HP) Intercooler Turbocharged Diesel Evasión 2.0 HDI 01/99 C 5 2.0 HDI 10/2000 Xantia 2.0 HDI 10/98 Jumpy 2.0 HDI 10/99 Xsara 2.0 HDI 2000 ...	80534.1 85 4   08-0203	46.75 -1-18.3 x 80.75	IN	28 x 70	1 603' 3,500 1 023 2,000 1 533 3,000	Std. .60	7382701 6382703 7382712 6382714	
DW 10 TD KAT /RHY KAT 1997 cc, 17.6:1, 66 KW (90 HP) Turbocharged Diesel Intercooler Xantia 2.0 HDI 03/99 ... Berlingo 2.0 HDI 12/99 ...								
DW 10 TED KAT 1997 cc, 17.6:1, 81 KW (110 HP) Turbocharged Diesel Intercooler Xsara Picasso 2.0 HDI								

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
CITROEN							
XU 10J2 1998 cc, 9.5:1, 90 KW (123 HP) Inyección Catalizador XM 1989 ... 1994 Xantia, ZX 1993 ... Evasión 2.0 X 1994 ...	08607.1 86 4   08-9501	40 -5,02 x 65	Type ATM	Ø x L 22 x 62 F	  1 600' 1,500 1 023 1,750 1 231 3,000	Std. .25 .60	7353905 6352905 7352914 6352916 7352925 6352920
XU 10J4 1998 cc, 10.4:1, 112 KW (152 HP) Catalizador Inyección 4 Válvulas BX 16S /XANTIA 16V /ZX 16S 1993 ... Xsara 2.0 16V VTS Mar. 1998...	08837.1 86 4   08-9602	39.1 -2.74-3.04 x 64.1	ATM	23 x 53	1 600' 1,500 1 023 1,750 1 231 3,000	Std.	7353905 6353900
829A5 1995 cc, 9.2:1, 78 KW (106 HP) Carburador 07/1979... CX 20 Athena /GT /Reflex /Break /Familiale /Pallas /TRE	08819.1 88 4   08-8603	40.5 +1.55 x 67.05	CIN	23 x 75 F	 1 600' 1,750 1 005 2,000 1 231 4,000	Std. 4083214 A=93,55 L=140 C=104.2 H= 93	7253304 6253306 5253301
DK5 ATE, DJ5 T 2446 cc, 21/24:1, 76/96 KW (103 /130 HP) Turbocharged Diesel Intercooler 1993... Evasión, Jumper, XM, VSX	90212.1 92 4						See Peugeot

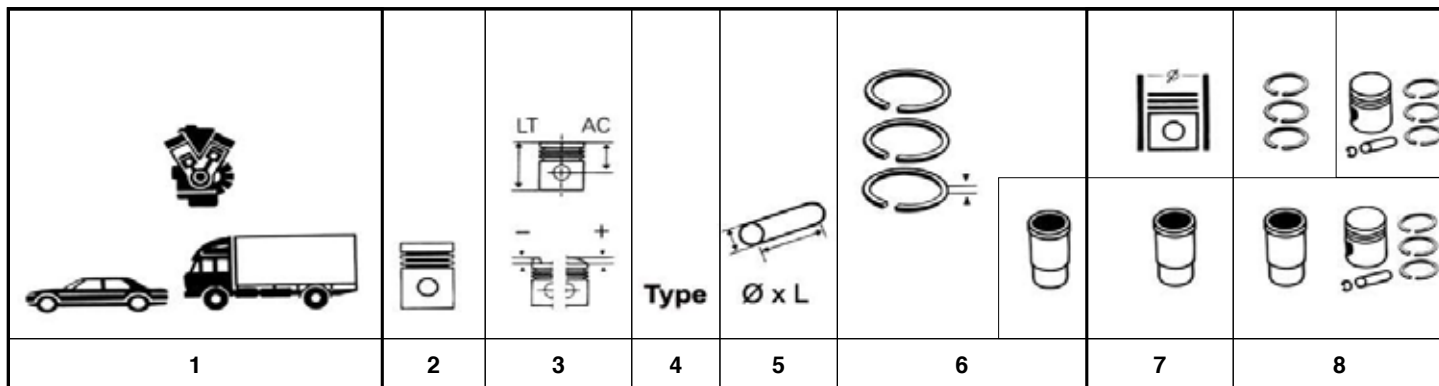
1	2	3	4	5	6	7	8
CITROEN							
DJ5 2446 cc, 24:1, Diesel 02/94... Jumper 2.5 D	90213.1 92 4   09-0102	49,9 -1,9 x 80 49.7 -1.9 x 80	H VC	34 x 58	1 600' 1 349 1 533	2,250 2,000 3,000 Std. .50	7381205 6381200 7381216 6381211
M22/629, M25/629/660/661 2499 cc, 22.25:1, 55 KW (75 HP) Feb.1978... CX 25 D /RD /TRD /Pallas C 35 RD, Super Break /Confort /Familiare Super /Reflex Break / Prestige	90301.1 93 4						See Fiat
XD3P 2498 cc, 23:1, 51/56 KW (70/76 HP) Diesel Normally Aspirated SXD	90411.1 94 4						See Peugeot

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





Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
COMPRESOR								(See Bendix, Knorr, Man, Mercedes-Benz, Pegaso, Wabco, Westinghouse)		
15 W37, WB15	Bendix		2	75					07647.1	62
15-5 W37, W31	Bendix		2	75					07647.1	62
15-5W37, W31	Westinghouse		2	75					07647.1	304
15W37, WB 15	Westinghouse		2	75					07647.1	304
Compresor	Mercedes-Benz		1	90					09133.1	170
Compresor	Man		1	90					09133.1	158
Compresor	Knorr		1	75					07527.1	135
Compresor	Knorr		1	88					08804.1	136
Compresor	Knorr		1	88					08839.1	136
Compresor	Wabco		1	85					08501.1	301
Compresor	Knorr		1/2	86					08695.1	135
Compresor	Bendix		2	60.325					06042.1	61
Compresor	Bendix		2	75					07647.1	62
Compresor	Bendix		1	80					08033.1	62
Compresor	Pegaso		1	90					09061.1	200
Compresor	Westinghouse		2	57.15					05123.1	303
Compresor 159	Westinghouse		1	75					07500.1	303
Compresor NDR	Westinghouse		2	90					09102.1	304
PCG-508	Bendix		1	66.675					06721.8	62
TU-FLO 500	Bendix		2	63.5					06351.1	61
TU-FLO 500	Bendix		2	63.5						61
D2840LF20	Man		1	100						
OM501LA	Mercedes		1	100						
Compresor	RVI		1	100						

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
CUMMINS										
3 B2.9			3	102.019					10295.1	83
3 BT2.9			3	102.019	2990				10296.1	83
4 B3.9			4	102.019	3900				10295.1	83
4 BT3.9			4	102.019	3900				10296.1	83
4 BTA3.9 Euro 1			6	102.019	5880				10297.1	83
4 T-390 Euro 1			4	102.019	3900				10296.1	83
4-390 Euro 1			4	102.019	3900				10295.1	83
6 B5.9			6	102.019	5880				10295.1	83
6 BT5.9			6	102.019	5880				10296.1	83
6 BTA5.9 Euro 1			6	102.019	5880				10297.1	83
6 T-590 Euro 1			6	102.019	5880				10296.1	83
6-590 Euro 1			6	102.019	5880				10295.1	83



CUMMINS

<p>3 B2.9 Diesel</p> <p>4 B3.9 3900 cc, Diesel</p> <p>4-390 Euro 1 3900 cc, Diesel</p> <p>6 B5.9 5880 cc, Diesel</p> <p>6-590 Euro 1 5880 cc, Diesel</p>	<p>10295.1</p> <p>102,019</p> <p>4,016"</p> <p>3/4/6</p>    <p>10-0003</p>	<p>71.58</p> <p>-19.3</p> <p>x</p> <p>105.4</p>	<p>4</p>	<p>40</p> <p>x</p> <p>75.6</p>	<p>1 301' 2,385</p> <p>1 055 2,385</p> <p>1 530 4,000</p>	<p>Std.</p> <p>.020</p> <p>.040</p>	<p>7377101 6377103</p> <p>7377112 6377114</p> <p>7377123 6377125</p>
<p>3 BT2.9 2990 cc, Diesel</p> <p>4 BT3.9 3900 cc, Turbocharged Diesel</p> <p>4 T-390 Euro 1 3900 cc, Turbocharged Diesel</p> <p>6 BT5.9 5880 cc, Turbocharged Diesel</p> <p>6 T-590 Euro 1 5880 cc, Turbocharged Diesel</p>	<p>10296.1</p> <p>102,019</p> <p>4,016"</p> <p>3/4/6</p>    <p>10-0003</p>	<p>71,5</p> <p>-17,7</p> <p>x</p> <p>105,4</p>	<p>IN</p>	<p>40</p> <p>x</p> <p>75.6</p>	<p>1 308' 3,000</p> <p>1 055 2,385</p> <p>1 530 4,000</p>	<p>Std.</p> <p>.020</p> <p>.040</p>	<p>7377204 6377206</p> <p>7377215 6377210</p> <p>7377226 6377221</p>
<p>4 BTA3.9 Euro 1 5880 cc, Turbocharged-Intercooled</p> <p>6 BTA5.9 Euro 1 5880 cc, Turbocharged-Intercooled</p>	<p>10297.1</p> <p>102,019</p> <p>4,016"</p> <p>4/6</p>    <p>10-0003</p>	<p>71,5</p> <p>-17,4</p> <p>x</p> <p>105,4</p>	<p>IN</p>	<p>40</p> <p>x</p> <p>75.6</p>	<p>1 308' 3,000</p> <p>1 055 2,385</p> <p>1 530 4,000</p>	<p>Std.</p> <p>.020</p> <p>.040</p>	<p>7377204 6377302</p> <p>7377215 6377313</p> <p>7377226 6377324</p>

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								DACIA		
K9K792	Renault		4	76				Logan 1.5 dci	70606.1 70610.1	

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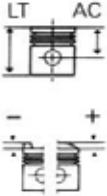

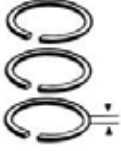




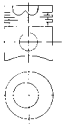
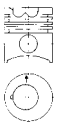
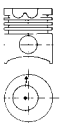

Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								DAF (See Cummins, Peugeot, Renault)		D
1.1	Renault	8.5:1	4	70	1108	34.5	47	55, 66	07144.5	250
CD 85	Cummins		3/4/6	102.019	5880			45.120	10295.1	83
CN 95, CT 97 L Euro 1	Cummins		3/4/6	102.019	5880			45.130	10295.1	83
CS119 L Euro 1	Cummins		4/6	102.019	5880			45.160	10297.1	83
CT108 L Euro 1	Cummins		3/4/6	102.019	5880			45.150	10296.1	83
DJ5 T	Peugeot	21:1	4	92	2446	76	103	LDV	90212.1	241
IAP 810-R-99	Renault	8.5:1	4	73	1289	40	54	100, 101, 103, 104	07389.4	251
XD3P	Peugeot	23:1	4	94	2498	51.5/56	70/76	Baureihe 400 EN	90411.1	243
XD3T	Peugeot	21:1	4	94	2498	71	96	Baureihe 400 ET	90414.1	243

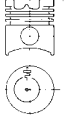
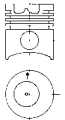
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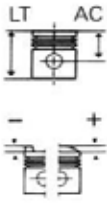

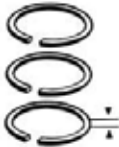







Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
DEUTZ (See K.H.D.)										
BF 4 L 913	K.H.D.	15:1	4	102	4086	64/78	87/106		10287.1	132
BF 4 L 913 T	K.H.D.	15.5:1	4	102	4086	60/64	82/87		10291.1	132
BF 6 L 913 T	K.H.D.	15.5:1	6	102	6128	95	130		10291.1	132
BF 6 L 913/T	K.H.D.	15.5:1	6	102	6128	96/117.5	130/160		10287.1	132
BF 6 L 913C	K.H.D.	15.5:1	6	102	6128	131	178		10287.1	132
F 2 L 912 D	K.H.D.	17:1	2	100	1884	26.5/28	36/38		10139.1	131
F 3 L 912 D	K.H.D.	17:1	3	100	2826	25.5/28	35/38		10139.1	131
F 3 L 913	K.H.D.	17:1	3	102	3060	42/45	57/61		10293.1	133
F 4 L 912 D	K.H.D.	17:1	4	100	3768	43/59	58.5/80		10139.1	131
F 4 L 913	K.H.D.	17:1	4	102	4086	55/64	75/87		10293.1	133
F 5 L 912 D	K.H.D.	17:1	5	100	4712	62.5/74	85/100.5		10139.1	131
F 6 L 912 D	K.H.D.	17:1	6	100	5652	59/82.5	80/112		10139.1	131
F 6 L 913	K.H.D.	17:1	6	102	6128	81/96	110/130		10293.1	133

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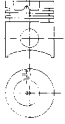

Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								DITER		
D 202			1/2/3	95					09509.1	88
D 225			2/3/4 /6	95					90501.1	88
D 227			2/3/4 /6	100					10179.1	89
D 227			2/3/4 /6	100					10251.1	89
D 229			3/4/6	102					10259.1	90
D 302			1/2/3	95					09509.1	88
D 325			2/3/4 /6	95					90501.1	88
D 327			2/3/4 /6	100					10179.1	89
D 327			2/3/4 /6	100					10251.1	89
LKS, D 987			1	85	567	8.8	12		80518.1	88

1	2	3	4	5	6		7	8		
			Type	 Ø x L						
1	2	3	4	5	6		7	8		
DITER										
LKS, D 987 567 cc, 8.8 KW (12 HP) Diesel	80518.1 85 1  08-5975	60 -16 x 92	ALM	26 x 68	1 690' 3,000 1 022 3,000 1 533 5,000	Std. .50 1.00		7214303 7214314 7214325	6214305 6214316 6214320	
D 202 Water Cooled Diesel D 302 Air Cooled Diesel	09509.1 95 1/2/3  05-5975	60 -20.9 x 113	ALM	32 x 82	1 307 3,000 1 005 3,000 1 022 3,000 1 533 5,000	Std. .50 1.00		7443203 7443214 7443225	6482302 6482313 6482324	
D 225 Water Cooled Diesel D 325 Air Cooled Diesel	90501.1 95 2/3/4/6  09-5975	59,8 -17,5 x 112,8	ALM	32 x 82	1 307 3,000 1 005 3,000 1 022 3,000 1 533 5,000	 4058611 A=106 L=212 C=114 H= 8 (D 225 Water cooled)		7443203 7443214 7443225	6443205 6443216 6443220 5443200	

1	2	3	4	5	6			7	8	
DITER										
D 227 Water Cooled Diesel 1970-1977 D 327 Air Cooled Diesel 1970-1977	10179.1 100 2/3/4/6  10-3973	59,8 -19,2 x 112,8	ALM	32 x 82	1 308' 1 005 1 022 1 530	3,000 2,000 2,000 4,000	Std. .50 1.00 4115414 A=113 L=213 C=119 H+F= 8+0.5 (D 227 Water cooled) 4118914 A=110.95 L=212 C=0 H= 0	7438200 7438211 7438222	6438202 6438213 6438224 5438204 5438285 Air Cooled Diesel	
D 227 Water Cooled Diesel 1977... D 327 Air Cooled Diesel 1977...	10251.1 100 2/3/4/6  10-3973	60,4 -19,3 x 113,4	ALM	35 x 82	1 308' 1 005 1 022 1 530	3,000 2,000 2,000 4,000	Std. .50 1.00 4115414 A=113 L=213 C=119 H+F= 8+0.5 (D 227 Water cooled) 4118914 A=110.95 L=212 C=0 H= 0	7438200 7438211 7438222	6238201 6238212 6238223 5238203 5238284 Air Cooled Diesel	

			Type	 $\varnothing \times L$			 	 	 
1	2	3	4	5	6	7	8		

DITER

<p>D 229 Diesel Normally Aspirated 1984...</p>	<p>10259.1 102 3/4/6  10-3973</p>	<p>60,4 -19,35 x 113,4</p>	<p>ALM</p>	<p>35 x 82</p>	<p>1 308' 3,000 1 005 2,500 1 530 4,000</p>	<p>Std.  4115613 A=113 L=213.5 C=119 H+F= 8+1</p>	<p>7238302 6238503 5238505</p>
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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								EBRO (See Fordson, Nissan-Motor Iberica, Perkins)		
3.152	Perkins	18.4:1	3	91.49	2490	34.5	47	134, 135, 147, 148, 154, 245, 247, 350, 6040, 6045	09750.1	215
3.152 D	Perkins	18.4:1	3	91.49	2500	34.5	47	6045, 6040, 350, 247, 245, 154, 134, 147, 135, 148	09179.3	213
3611 cc	Fordson	16.5:1	4	100	3611	54	73	Tractor 764, Tractor 752, C-150, E-70, Tractor 169, E-60, D-450, D-350, D-550, E-35, D-650, D-150, Tractor 155, Tractor 55, Tractor 48, Tractor 44, E-90	10898.1	113
4.203	Perkins	17.4:1	4	91.49	3330	52	71	50 /50, E-35, D-350, D-450, D-150	09750.1	215
4.203 D	Perkins	18.4:1	4	91.49	3330	40	54.5	157, 460	09179.3	213
4.236	Perkins	16:1	4	98.476	3867	43.5/59	59/80	D-550, E-60, E-70, E-90, L-60, L-80, 70 T.T., Tractor 165, Tractor 166, Tractor 174, Tractor 175, Tractor 220, Tractor 265, Tractor 275, Tractor 470, 6070, 267	09820.1	217
6.305	Perkins	17.4:1	6	91.49	5003	73.5	100	D-600, D-700, E-95, E-110, 60 /7 B, 66 /7 T, Tractor 183, 684	09750.1	215
6.354.3, 6.354.4	Perkins	16:1	6	98.476	5800	92.3	125.6	6125, 6120, 6100, 297, 1195, Tractor 195, M-125, M-100, P-112, P-160, P-137, E-125, 110 /8 D, 99 /9 T	90844.1	226
A 4.28 II	Nissan-Motor Iberica	22:1	4	94	2820	62	84	L-35.08	90412.1	185
B 6.60	Nissan-Motor Iberica	17:1	4/6	100	5985	99.5	135	L-80.14	10241.1	187

E



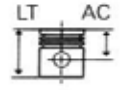

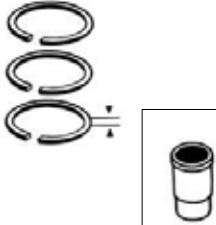


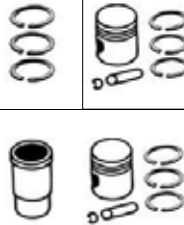
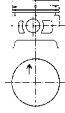
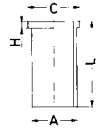
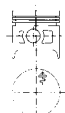
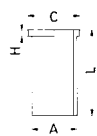
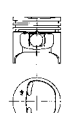
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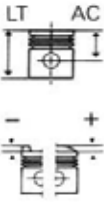




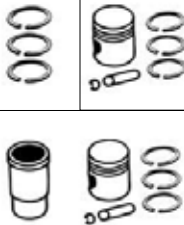



Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								FIAT (See also Citroen, Peugeot)		
1.6 Ltrs.	Perkins	9.2:1	4	86.4	1580	59	80	Tipo, Tempra	08640.1	96
100D000, 100D006, 100D008		7.5:1	4	62	767	18.5	25	600 D /E /L, 750 T, Multipla, Jagts 770	06164.5	94
100GL000, 100GL3000		9:1	4	65	903	33/35	45/47	127, 127 A /LS /CL, 900 T, Fiat Panda, 45 /Super, 127 Fiorino, Uno 45 /Super	06679.3	94
149 A1.000, 149 B1.000, 160 A7.000		21:1	4	82.6	1929	47.5/52	65/71	Regata DS	80266.1	95
149 B3.000, M 705 BA 19.0, M 708 FA.17.0 138 C.000, 142 B2.000, 149 B4.000		20/20.5:1	4	82.6	1698	42.5/44	58/60	Uno 60 D /DS /Super D, Duna DL /DCL, Ritmo DL /DCL, Regata D	80266.1	95
160 A 200 4.236		9.2:1	4	86.4	1580	61/66	83/90	Tempra, Tipo, Scudo, Punto	08640.1	96
8030.05		17:1	3	104	2931	44	60	Tractor 60-66 /60-90	10458.1	100
8035.05		17:1	3	104	2931	37/43	50/59	Serie 60.65 /60.66 /60.90 /FL4	10458.1	100
8040.05		17:1	4	104	3908	59	80	Baureihe 50-65 /80-90	10458.1	100
8040.25		16.5:1	4	104	3907	74/84.5	101/115	60.11 /65.12 /79.12	10459.1	100
8045.05		17:1	4	104	3908	52/59	71/80	Serie 80.65 /80.66 /80.92 /85.95 /90.90, Serie FL4 /FL /FD5 /FR /FB /FD7 /FR9 /FR10 /FE12	10458.1	100
8050.05		17:1	5	104	4885	66	90	Tractor 90.90	10458.1	100
8055.05		17:1	5	104	4885	72	98	Serie 90.90 /95.55	10458.1	100
8060.05		17:1	6	104	5862	79/101	108/138	Baureihe 79.14 /115.14 /115.90 /FD9 /FL10	10458.1	100
8060.25		16.5:1	6	104	5861	130	177	115.17 /135.17 /175.17, Eurocargo 80 E 18	10459.1	100
8065.05		17:1	6	104	5862	63/88	86/120	Serie 110.90 /115.90 /FD7 /FL7	10458.1	100
8140				4	94.4					
8140.07.2700		18:1	4	93	2499	55	75	Ducato 14, Daily 30 /35.8 /40.8	90303.1	97



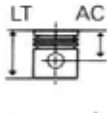

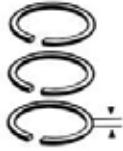



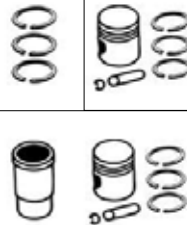


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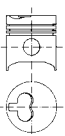
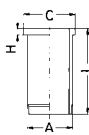
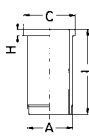
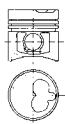
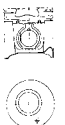
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
8140.07.3700, NA		19:1	4	93	2499			Euro 1	90303.1	97
8140.21, 8144.21		22:1	4	93	2445	68	92	Ducato 14 /18	90304.1	98
8140.23.2585 /3700/371/3720 /3721/3730/3731 /3750/3760/3761 /3811/3821/3861		18.5:1	4	94.40	2798	76	103	Daily .Euro 2. 01 /1996... 05 /1999	90415.1	98
8140.23.3700 /3761/3801 /3861, 8140.43.3700 /3731 Euro 2		18.5:1	4	94.40	2798	77/85	105/115	Fiat Ducato	90440.1	99
8140.27.200 /2101		18:1	4	93	2499	75.7	103	Turbo Daily 35.10 /40.10 /45.10 /49.10	90305.1	98
8140.43.2585 /3700/3731		18.5:1	4	94.4	2798	85-90	115-122	Daily Turbo, Ducato. Euro 2	90415.1	98
8140.43S, Euro		18.5:1	4	94.40	2798	92-94	125-128	Ducato JTD, Daily Turbo	90416.1	99
8140.61.200 /.230/.300		21:1	4	93	2445	53	72	Daily /Grinta 30.F.8 /32.F.8 /35.F.8 /40.F.8 /900 T /238 E, Ducato 13 /Furgone /Pick-up, Autocarro	90300.1	96
8142.61, 8144.61		22:1	4	93	2445	53	72	131 Mirafiori Diesel L /Super /Panorama Super, 132 Diesel, Argenta D, Campagnola Diesel	90300.1	96
8144.67		22:1	4	93	2499	55	75	Croma, Argenta	90302.2	97
B 25/637		22.25:1	4	93	2499	52	70	242 E Diesel	90301.1	97
C 03/75		17:1	4	110	4562	66	90	Cerbiatto 20, Lupetto A 15 /50AL /329 A /25 /30, Leoncino 35, Daino 40 /45, OM 50 /55 /65 /70 /75, Tractor 750 /805 C /880	11059.1	101
DK5 ATE, DJ5 T	Peugeot	21/24:1	4	92	2446	76/96	103/130	Ducato	90212.1	241
M 202 PA.13.0		9.2:1	4	80.5	1370	51	70	Uno 70, Tempra, Tipo DGT	08051.1	94
M 707 AT.19.0, 149 A1.000		20:1	4	82.6	1929	59	80	Ritmo Turbo DS, Regata Turbo DS	80266.1	95
Sofim, Euro 3			4	94.40				Daily 05 /1999..., Ducato 09 /2000...	90416.1	99
Sofim, Euro 2			4	94.40				Ducato, ... 12 /1996	90415.1	98
XUD 9 TE	Citroen	21.8:1	4	83	1905	66	92	Scudo, Ducato, Ulysse	80300.1	77



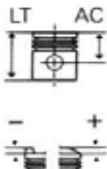



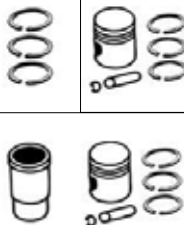






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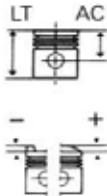

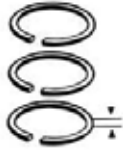


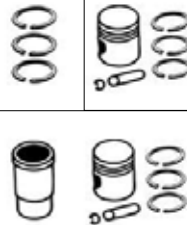
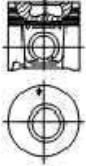

1	2	3	4	5	6		7	8	
FIAT									
1	2	3	4	5	6		7	8	
		 	Type	Ø x L			 		
100D000, 100D006, 100D008 767 cc, 7.5:1, 18.5 KW (25 HP) 1960-1970 600 D /E /L, 750 T, Jagts 770, Multipla	06164.5 62 4  06-2977	30,75 x 61,75	CIN	20 x 50.8	1 301 2,000 1 022 2,000 1 232 3,947	Std. .40 .60 1.00	4466313 A=66 L=110 C=67.5 H= 4 	7427906 7427910 7427932 7427954	6427901 6427912 6427934 6427956
100GL000, 100GL3000 903 cc, 9:1, 33/35 KW (45/47 HP) 127, 127 A /LS /CL, 127 Fiorino, 45 /Super, 900 T, Fiat Panda, Uno 45 /Super	06679.3 65 4  06-4975	30,75 x 61,25	CIN	20 x 54 F	1 341' 1,750 1 023 2,000 1 232 3,947	Std. .40 .60 1.00	4411013 A=69 L=115 C=69.5 H= 4 	7339802 7339813 7339824 7339835	6340600 6340611 6340622 6340633
M 202 PA.13.0 1370 cc, 9.2:1, 51 KW (70 HP) Tipo DGT 1989 ... Uno 70 1990 ... Tempra 1992 ...	08051.1 80,5 4  08-9410	33.3 -2.9-3.5 x 72.8		22 x 58	1 301' 1,500 1 023 1,750 1 231 3,000	Std. .40 .60	7349204 7349215 7349226	6349206 6349210 6349221	



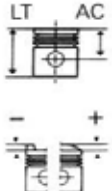

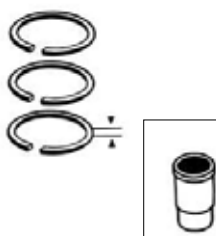

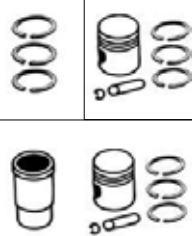
1	2	3	4	5	6	7	8	FIAT	
			Type	 Ø x L					F
<p>149 A1.000, 149 B1.000, 160 A7.000 1929 cc, 21:1, 47.5/52 KW (65/71 HP) Normally Aspirated 90 mm stroke 1984... Regata DS</p> <p>149 B3.000, M 705 BA 19.0, M 708 FA.17.0 138 C.000, 142 B2.000, 149 B4.000 1698 cc, 20/20.5:1, 42.5/44 KW (58 /60 HP) Normally Aspirated Diesel 1986... Duna DL /DCL, Regata D, Ritmo DL /DCL, Uno 60 D /DS /Super D</p> <p>M 707 AT.19.0, 149 A1.000 1929 cc, 20:1, 59 KW (80 HP) Turbocharged Diesel 1986... Regata Turbo DS, Ritmo Turbo DS</p>	<p>80266.1</p> <p>82,6</p> <p>4</p>   <p>08-9301</p>	<p>42.2</p> <p>+2.50</p> <p>x</p> <p>78.3</p>	<p>A</p> <p>IN</p>	<p>25</p> <p>x</p> <p>69.4</p>	<p>1 690' 2,500</p> <p>1 626' 2,000</p> <p>1 533 4,000</p> 	<p>Std.</p> <p>.40</p> <p>.60</p> <p>4418713</p> <p>A=87</p> <p>L=157</p> <p>C=90</p> <p>H= 4.5</p>	<p>7326502</p> <p>7240004</p> <p>7326524</p>	<p>6337704</p> <p>6337715</p> <p>6337726</p>	
<p>XUD 9 TE 1905 cc, 21.8:1, 66 KW (92 HP) Turbo Intercooler Ducato, Ulysse 03/94 ... 07/97 Scudo 10/95 ... 07/97</p>	<p>80300.1</p> <p>83</p> <p>4</p>							<p>See Citroen</p>	

			Type	 $\varnothing \times L$			 		
1	2	3	4	5	6		7	8	
FIAT									
1.6 Ltrs. 1580 cc, 9.2:1, 59 KW (80 HP) Inyección Catalizador 1991... Tempra 1990 ... Tipo 1991 ... 160 A 200 1580 cc, 9.2:1, 61/66 KW (83/90 HP) Tipo 1988 ... Tempra 1990 ... Punto 1993 ... Scudo Oct. 1995 ...	08640.1 86,4 4	33,3 -2,3 x 72,8		22 x 63	1 354' 1,500 1 955 1,750 1 231 3,000	Std. .40 .60		7348003 6348005 7348014 6348016 7348025 6348020	
DK5 ATE, DJ5 T 2446 cc, 21/24:1, 76/96 KW (103 /130 HP) Turbocharged Diesel Intercooler 1993... Ducato	90212.1 92 4							See Peugeot	
8140.61.200/.230/.300 2445 cc, 21:1, 53 KW (72 HP) 1978... Autocarro, Daily/Grinta 30.F.8 /32.F.8 /35.F.8 /40.F.8 /900 T /238 E, Ducato 13 /Furgone /Pick-up 8142.61, 8144.61 2445 cc, 22:1, 53 KW (72 HP) 1978... 131 Mirafiori Diesel L /Super /Panorama Super, 132 Diesel, Argenta D, Campagnola Diesel	90300.1 93 4   09-8202	55 -2,2 x 90	IN ALM	32 x 74.4	1 301' 3,000 1 626 2,000 1 533 4,000	Std. .40 .60	4415913 A=96 L=170.5 C=99 H= 4.8 4415810 A=96 L=170.5 C=0 H= 0	7056803 6056805 7056825 6056820 7056836 6056831	






1	2	3	4	5	6	7	8	FIAT	
1	2	3	4	5	6	7	8	FIAT	
 <p>B 25/637 2499 cc, 22.25:1, 52 KW (70 HP) 1981... 242 E Diesel</p>	<p>90301.1 93 4</p>  <p>09-8901</p>	<p>52,75 -5,45 x 95</p>	<p>H</p>	<p>30 x 78.8</p>	<p>1 600' 2,500 1 045' 2,000 1 533 4,000</p>  	<p>Std. .50 .75</p> <p>4420216 A=97,5 L=163 C=99 H= 5</p> <p>4704910 A=97,5 L=163 C=99 H= 5</p>	<p>7293705 6293700 7293716 6293711 7293720 6293722</p>		
<p>8144.67 2499 cc, 22:1, 55 KW (75 HP) Normally Aspirated 1985... Argenta, Cromia</p> <p>8140.67 01/1986...03/1994</p>	<p>90302.2 93 4</p>  <p>09-8202</p>	<p>54 -2,2 x 88</p>	<p>IN ALM A</p>	<p>32 x 74.4</p>	<p>1 301' 3,000 1 626 2,000 1 530 3,000</p>	<p>Std. .40 .60</p>	<p>7325500 6325605 7325511 6325616 7325522 6325620</p>		
<p>8140.07.2700 2499 cc, 18:1, 55 KW (75 HP) 1989... Daily 30 /35.8 /40.8, Ducato 14</p> <p>8140.07.3700, NA 2499 cc, 19:1, Euro 1</p>	<p>90303.1 93 4</p>  <p>09-9701</p>	<p>58.75 -16.9-12.27 x 96.75</p>	<p>IN</p>	<p>32 x 74.4</p>	<p>1 308' 3,000 1 955 2,000 1 533 3,000</p>	<p>Std. .40 .60</p>	<p>7354406 6354401 7354410 6354412 7354421 6354423</p>		



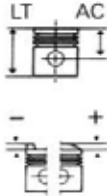

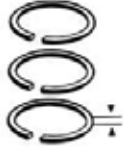


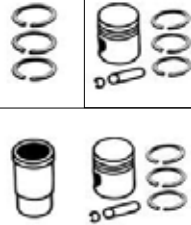


			Type	 $\varnothing \times L$							
1	2	3	4	5	6			7	8		
FIAT											
8140.21, 8144.21 2445 cc, 22:1, 68 KW (92 HP) Turbocharged Diesel 1986... Ducato 14/18	90304.1 93 4   09-9801	59.65 -14.8 x 97.65	ATM IN	32 x 74.4	1 308' 3,000 1 955 2,000 1 533 3,000	Std. .40 .60	7354406 6354504 7354410 6354515 7354421 6354526				
8140.27.200/2101 2499 cc, 18:1, 75.7 KW (103 HP) 1989-1994 Turbo Daily 35.10 /40.10 /45.10 /49.10	90305.1 93 4   09-9702	58,75 -17,9 x 96,75	IN CB	32 x 78	1 308' 3,000 1 955 2,000 1 533 3,000	Std. .40 .60	7354406 6354600 7354410 6354611 7354421 6354622				
8140 Daily Turbodiesel	94,4 4				1 398' 2,500 1 005 2,000 1 533 2,500	Std.	7390106				
8140.23.2585/3700/371/3720 /3721/3730/3731/3750/3760/3761 /3811/3821/3861 2798 cc, 18.5:1, 76 KW (103 HP) Daily .Euro 2. 01/1996... 05/1999 8140.43.2585/3700/3731 2798 cc, 18.5:1, 85-90 KW (115-122 HP) 09/1995... Daily Turbo Ducato. Euro 2 Sofim, Euro 2 Ducato,... 12/1996	90415.1 94,4 4   09-0801	58.75 -19.45 x 87.60	IN G	32 x 72	1 603' 2,500 1 005 2,000 1 533 2,500	Std. .40 .60	7393503 6393505 7393514 6393516 7393525 6393520				

			Type					
1	2	3	4	5	6	7	8	8
FIAT								
8140.43S, Euro 3 2798 cc, 18.5:1, 92-94 KW (125-128 HP) 05/1999... Ducato JTD Daily Turbo Sofim, Euro 3 Daily 05/1999... Ducato 09/2000...	90416.1 94,4 4  09-0801 Biela trapezial	58,75 -21 x 87,60	G IN	32 x 72	1 603' 2,500 1 005 2,000 1 533 2,500	Std. .40 .60	7393503 7393514 7393525	6393601 6393612 6393623
8140.23.3700 /3761/3801 /3861, 8140.43.3700 /3731 Euro 2 2798 cc, 18.5:1, 77/85 KW (105 /115 HP) Turbo Intercooler Diesel 08/96... Fiat Ducato	90440.1 94,4 4  09-0003	58,75 -19,45 x 96,75	G IN	32 x 78	1 398' 3,000 1 955' 2,000 1 530 3,000	Std. .60	7376703 7376714	6376705 6376716
4.236 Serie M	09820.4 98,476							see Perkins

			Type				
1	2	3	4	5	6	7	8

FIAT

<p>8030.05 2931 cc, 17:1, 44 KW (60 HP) Tractor 60-66 /60-90</p> <p>8035.05 2931 cc, 17:1, 37/43 KW (50/59 HP) Serie 60.65 /60.66 /60.90 /FL4</p> <p>8040.05 3908 cc, 17:1, 59 KW (80 HP) Baureihe 50-65/80-90</p> <p>8045.05 3908 cc, 17:1, 52/59 KW (71/80 HP) Serie 80.65 /80.66 /80.92 /85.95 /90.90, Serie FL4 /FL /FD5 /FR /FB /FD7 /FR9 /FR10 /FE12</p> <p>8050.05 4885 cc, 17:1, 66 KW (90 HP) Tractor 90.90</p> <p>8055.05 4885 cc, 17:1, 72 KW (98 HP) Serie 90.90 /95.55</p> <p>8060.05 5862 cc, 17:1, 79/101 KW (108 /138 HP) Diesel 1986... Baureihe 79.14 /115.14 /115.90 /FD9 /FL10</p> <p>8065.05 5862 cc, 17:1, 63/88 KW (86/120 HP) Serie 110.90 /115.90 /FD7 /FL7</p>	<p>10458.1 104 3/4/5/6</p>   <p>10-9803</p>	<p>65.15 -22.5 x 108.5</p>	<p>H IN</p>	<p>38 x 85</p>	<p>1 600' 2,500 1 023 2,500 1 533 4,000</p>	<p>Std.</p>	<p>7365400 6365402</p>
<p>8040.25 3907 cc, 16.5:1, 74/84.5 KW (101 /115 HP) 60.11 /65.12 /79.12</p> <p>8060.25 5861 cc, 16.5:1, 130 KW (177 HP) Turbocharged Diesel 1986... 115.17 /135.17 /175.17, Eurocargo 80 E 18</p>	<p>10459.1 104 4/6</p>   <p>10-9802</p>	<p>65.15 -22.5 x 104.15</p>	<p>IN</p>	<p>38 x 85</p>	<p>1 690' 3,000 1 955 2,500 1 533 4,000</p>	<p>Std.</p>  <p>4422412 A=107 L=198 C=109.87 H= 5</p>	<p>7365606 6365601</p>

			Type					
1	2	3	4	5	6	7	7	8
FIAT								
C 03/75 4562 cc, 17:1, 66 KW (90 HP) Direct Injection Diesel Cerbiatto 20, Daino 40 /45, Leoncino 35, Lupetto A 15 /50AL /329 A /25 /30, OM 50 /55 /65 /70 /75, Tractor 750 /805 C /880	11059.1 110 4   11-9002	75,2 -27,5 x 150,2		40 x 94	1 301' 2,500 1 001 2,500 1 022 2,500 1 231 5,000 1 031 5,000		Std. 4072213 A=118 L=236 C=129.6 H+F= 170+1.05	7313806 6313801 5313803

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
FIAT/VECO (See Citroen, Fiat)										
8140	Fiat		4	94.4						98
DW 10 ATED 3 KAT /RHZ KAT	Citroen	17.6:1	4	85	1997	81	110	Ulysse	80534.1	78

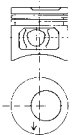
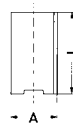
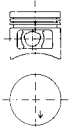
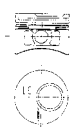
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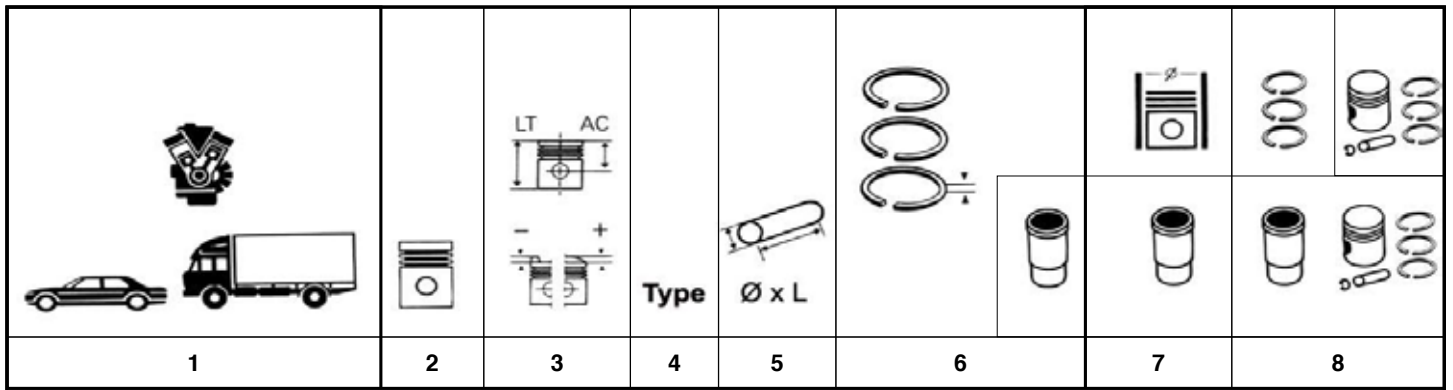
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
FORD									(See also Fordson, Mazda, Nissan-Motor Iberica, Peugeot, Volkswagen)	
1.3 Ltrs.		9.3:1	4	74	1297	44	60	Orion 1.3 L /CL /GL /Ghia, Escort 1.3 C /CL /Ghia, Fiesta 1.3 L	07401.1	105
1.3 Ltrs.		9.5:1	4	74	1297	46	63	Sierra, Orion, Escort 1.3 CL /Ghia	07404.1	105
1.6 Ltrs		21.5:1	4	80	1608	39.5	54	Escort 1.6 D /C /CL /LD /GLD /Laser D, Fiesta 1.6 D /LD /Balear D /Ghia, Orion 1.6 D /CL /LD /GLD	80031.1	108
1.8 NA		21.5:1	4	82.5	1753	44	60	Escort D, Orion D, Fiesta D	80220.1	108
1.8 TD		21.5:1	4	82.5	1753	55	75	Sierra TD	80221.1	109
1.8 TD		21.5:1	4	82.5	1753	65	88	Mondeo TD	80221.1	109
2.5 DI		19.02:1	4	93.67	2496	50/51.5	68/70	Transit 80 /100 /120 /130 /160 /190, Bus 12 /15, A 0407	90367.1	110
2.5 Ltrs.		19:1	4	93.67	2496	50	68	Bus, Transit LCX 150 SWB, Transit SWB 80 /100 /150 /190, Executive GL, Crewbus	90360.1	109
4 D, 592 E	Fordson	16:1	4/6	100	3611	51	69	Thames Trader, Super Major, Power Major, Tractor Major	10898.1	113
6 D, 590 E	Fordson	16:1	6	100	5416	79.5	108	Thames Trader 15 /20 /30 /40 /55 /75	10898.1	113
ASZ	Volkswagen	19:1	4	79.5	1896	96	130	Galaxy 1.9 TDI (01 /2003...)	70968.1 70969.1	290 290
AUY KAT	Volkswagen	18:1	4	79.5	1896	85	115	Galaxy 1.9 TDI (04 /2000...)	70964.1 70965.1	288 288
CFI		8.8:1	4	74	1297	44	60	Fiesta, Escort, Orion	07407.1	105
CVH		9.5:1	4	80	1597	66/70	90/95	Orion, Fiesta XR2, Escort	08134.1	107
DOHC, ZETEC			4	76	1597	66	90	Mondeo 1.6, Fiesta 1.6, Escort 1.6	07630.1	106
DV4 TD.HDI	Peugeot	18:1	4	73.7	1398	50	68	Fiesta (2002...), Fusion (2002...)	70300.1	233
HDDA			4	75	1560	66	90	Focus 1.6 TDi 16V 05 /2005...	70510.1	106
Hddb		18:1	4	75	1560	66	90	Focus 1.6 TDCi 16V 01 /2005...	70510.1	106
HHDA		17.6:1	4	75	1560	80	109	Focus C-Max 1, 6 TDCi 16V 06 /2003...	70510.1	106
HHDB		18:1	4	75	1560	66	92	Focus C-Max 1, 6 TDCi 16V 01 /2005...	70510.1	106

F



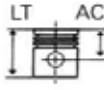


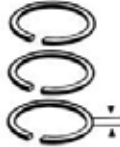



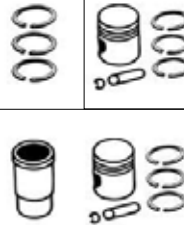


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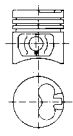


Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
LXD2	Peugeot	23:1	4	94	2304	49/51	67/69	Granada 2.3 D /L /GL /Turnier, Sierra 2.3 D /L /GL /LD /GLD /Ghia /Turnier, Scorpio 2.3 D /CL /GL /Turnier	90406.1	242
MF	Volkswagen	19.5:1	4	79.5	1896	66	90	Galaxy	70952.1 70951.1	293 293
MG	Volkswagen	19.5:1	4	79.5	1896	81	110	Galaxy	70952.1 70951.1	293 293
R2	Mazda		4	86	2200			Econovan	80607.1	161
RF	Mazda		4	86	1998				80607.1	161
TD 27 T	Nissan-Motor Iberica	21.9:1	4	96	2664	73	100	Maverick 2.7 TD	90600.1	185
VR6	Volkswagen	10:1	6	81.01	2792	132	180	Galaxy	08139.1	294
XD3P	Peugeot	23:1	4	94	2498	51	69	Scorpio 2.5 D, Granada 2.5 D /L /GL /LD /GLD /Ghia /Turnier	90411.1	243
XD3T	Peugeot	21:1	4	94	2498	71	96	Scorpio 2.5 Turbo Diesel	90414.1	243
ZETA		10:1	4	80.6	1796	78/85	105/115	Mondeo 1.8, Orion 1.8, Fiesta 1.8, Escort 1.8	08142.1	108



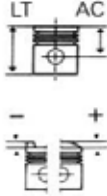

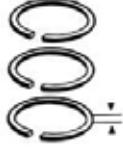


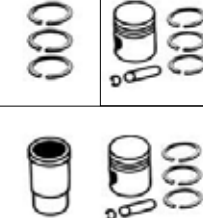





1	2	3	4	5	6	7	8	F	
FORD									
DV4 TD.HDI 1398 cc, 18:1, 50 KW (68 HP) Turbo Inyección Fiesta (2002...) Fusion (2002...)	70300.1 73,7 4							See Peugeot	
1.3 Ltrs. 1297 cc, 9.3:1, 44 KW (60 HP) Long Stroke 1986... Fiesta 1.3 L Escort 1.3 C /CL /Ghia, Orion 1.3 L /CL /GL /Ghia	07401.1 74 4  07-8706	39,13 -3,27 x 65,13	CIN	20,637 x 55 F	1 301' 1,600 1 022 2,000 1 231 4,000	Std. .50 1.00	4407712 A=77,175 L=119.62 C=0 H= 0 	7341106 7341110 7341121	6341005 6341016 6341020
1.3 Ltrs. 1297 cc, 9.5:1, 46 KW (63 HP) 1989... Escort 1.3 CL /Ghia Orion, Sierra	07404.1 74 4  07-8906	29,4 x 53,9	CIN	18.04 x 64 F	1 600' 1,500 1 023 1,750 1 231 3,000	Std. .50 1.00		7308103 7308114 7308125	6308105 6308116 6308120
CFI 1297 cc, 8.8:1, 44 KW (60 HP) Inyección Catalizador 1992... Escort Fiesta, Orion	07407.1 74 4  07-9001	29,4 -3,5 x 53,9	CIN	18.04 x 64 F	1 600' 1,500 1 023 1,750 1 231 3,000	Std. .50 1.00		7308103 7308114 7308125	6373102 6373113 6373124



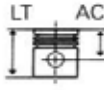


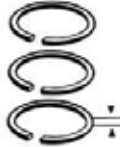


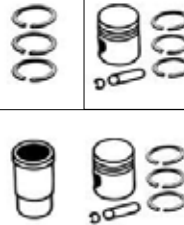







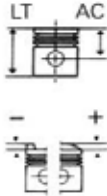

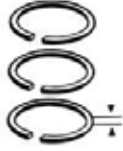

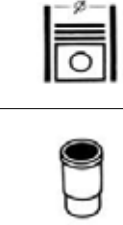
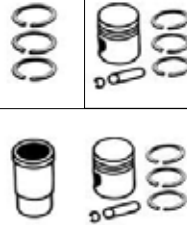
FORD									
HDDA 1560 cc, 66 KW (90 HP) Focus 1.6 TDi 16V 05/2005... HDDB 1560 cc, 18:1, 66 KW (90 HP) Focus 1.6 TDCi 16V 01/2005... HHDA 1560 cc, 17.6:1, 80 KW (109 HP) Focus C-Max 1,6 TDCi 16V 06/2003... HHDB 1560 cc, 18:1, 66 KW (92 HP) Focus C-Max 1,6 TDCi 16V 01/2005...	70510.1 75 4	41.7 -1.16-13.2 x 65.3	IN G	26 x 61	1 1 1	603' 023' 533'	3,000 1,950 2,500	Std. .50	7395006 6395001 7395010 6395012
						07-0901			
						07-9801			
						07-9801			
DOHC, ZETEC 1597 cc, 66 KW (90 HP) Inyección 16 V 1992... Escort 1.6, Fiesta 1.6 1992 ... Mondeo 1.6 1993 ...	07630.1 76 4	32.6 +1.85 x 58.45	ATM	20.63 x 63.5 F	1 1 1	600' 023 236'	1,500 1,600 2,500	Std. .50 1.00	7364405 6364400 7364416 6364411 7364420 6364422
						07-9801			
AUY KAT 1896 cc, 18:1, 85 KW (115 HP) Intercooler Galaxy 1.9 TDI (04/2000...)	70964.1 79,5 4								See Volkswagen
	Cilindros 1/2 Cylinder	70965.1 79,5 4							
	Cilindros 3/4 Cylinder								

		 	Type	 $\varnothing \times L$			 		
1	2	3	4	5	6	7	8	8	
FORD									
ASZ 1896 cc, 19:1, 96 KW (130 HP) Intercooler Galaxy 1.9 TDI (01/2003...)	70968.1 79,5 4 Cilindros 1/2 Cylinder							See Volkswagen	
MF 1896 cc, 19.5:1, 66 KW (90 HP) Turbo Intercooler 1996... Galaxy	70951.1 79,51 4							See Volkswagen	
MG 1896 cc, 19.5:1, 81 KW (110 HP) Turbo Intercooler 1998... Galaxy	70952.1 79,51 4							See Volkswagen	
CVH 1597 cc, 9.5:1, 66/70 KW (90/95 HP) Set. 1985... Fiesta XR2 Escort, Orion	08134.1 80 4   08-9004	36.59 +7.12 x 73.71	CIN	20.63 x 66.6 F	1 600' 1,600 1 022 2,000 1 231 4,000 1 005' 1,600 1 022 2,000 1 231 4,000	Std. .50 1.00 Std. .50 .75 1.00	7223005 6312806 7223016 6312810 7223031 6312821 7228900 7228922 7228933 7228944		

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
FORD							
1.6 Ltrs 1608 cc, 21.5:1, 39.5 KW (54 HP) 1983... Fiesta 1.6 D /LD /Balear D /Ghia Escort 1.6 D /C /CL /LD /GLD /Laser D, Orion 1.6 D /CL /LD /GLD	80031.1 80 4  08-8601	46.65 -1.55-3.25 x 76.8	IN ALM	24 x 62	1 301' 2,000 1 005 2,000 1 533 3,000	Std. .50 1.00	7244506 6243204 7244510 6243215 7244532 6243226
ZETA 1796 cc, 10:1, 78/85 KW (105/115 HP) Injection 16 V 02/1992... Escort 1.8 Fiesta 1.8, Mondeo 1.8, Orion 1.8	08142.1 80,6 4  08-9801	33,2 x 57,2	ATM	20.63 x 63.5 F	1 600' 1,500 1 023 1,600 1 236' 2,500	Std. .50 1.00	7363101 6363103 7363112 6363114 7363123 6363125
VR6 2792 cc, 10:1, 132 KW (180 HP) Inyección Catalizador Galaxy 1995 ...	08139.1 81,01 6						See Volkswagen
1.8 NA 1753 cc, 21.5:1, 44 KW (60 HP) 1988... Escort D Fiesta D, Orion D	80220.1 82,5 4  08-9403	45,7 -1,6 x 73,7	IN ALM	26 x 59	1 394' 2,000 1 005 2,000 1 533 3,000	Std. .50 1.00	7347605 6347600 7347616 6347611 7347620 6347622



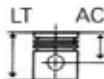


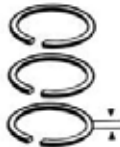






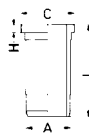
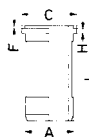

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	9
FORD								
1.8 TD 1753 cc, 21.5:1, 55 KW (75 HP) Turbodiesel 1989... Sierra TD	80221.1 82,5 4	45,65 -1,5 x 75,8	IN ALM	26 x 68	1 398' 2,500 1 005 2,000 1 533 3,000	Std. .50 1.00	7347701 7347712 7347723	6347703 6347714 6347725
1.8 TD 1753 cc, 21.5:1, 65 KW (88 HP) Turbodiesel refrigerado 1993... Mondeo TD	  08-9403							See Mazda
R2 2200 cc, Turbocharged Diesel 1991... Econovan	80607.1 86 4							
RF 1998 cc, Turbocharged Diesel 1991... 2.5 Ltrs. 2496 cc, 19:1, 50 KW (68 HP) 1991... Bus Crewbus, Executive GL, Transit LCX 150 SWB, Transit SWB 80 /100 /150 /190	90360.1 93,67 3,688" 4   09-9901	59,53 -18 x 94	IN	29 x 77	1 308' 2,500 1 095 2,000 1 530 4,000	Std. .65 1.00  4411912 A=96,939 L=171.45 C=98 H= 5		7368701 7368712 7368723 6368703 6368714 6368725

		 	Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	
FORD								
2.5 DI 2496 cc, 19.02:1, 50/51.5 KW (68 /70 HP) Direct Injection Diesel 03/1984-1988 Transit 80 /100 /120 /130 /160 /190 A 0407, Bus 12 /15	90367.1 93,67 4   09-8602	59.48 -0.68-0.98 -16.88 x 93.98	IN ALM	29 x 77	1 394' 2,000 1 095 2,000 1 530 4,000	Std. .65  4411912 A=96,939 L=171.45 C=98 H= 5		7273302 6273304 7273313 6273315
LXD2 2304 cc, 23:1, 49/51 KW (67/69 HP) Oct. 1982... Sierra 2.3 D /L /GL /LD /GLD /Ghia /Turnier Granada 2.3 D /L /GL /Turnier, Scorpio 2.3 D /CL /GL /Turnier	90406.1 94 4							See Peugeot
XD3P 2498 cc, 23:1, 51 KW (69 HP) Normally Aspirated Granada 2.5 D /L /GL /LD /GLD /Ghia /Turnier Scorpio 2.5 D	90411.1 94 4							See Peugeot
XD3T 2498 cc, 21:1, 71 KW (96 HP) Turbo Intercooler 1989... Scorpio 2.5 Turbo Diesel 1989 ...	90414.1 94 4							See Peugeot
TD 27 T 2664 cc, 21.9:1, 73 KW (100 HP) Turbocharged Diesel Maverick 2.7 TD 1993 ...	90600.1 96 4							See Nissan-Motor Iberica

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8
FORD								
<p>4 D, 592 E 3611 cc, 16:1, 51 KW (69 HP) Direct Injection Diesel Power Major, Super Major, Thames Trader, Tractor Major</p> <p>6 D, 590 E 5416 cc, 16:1, 79.5 KW (108 HP) Direct Injection Diesel 1965-1975 Thames Trader 15 /20 /30 /40 /55 /75 1957-65</p>	10898.1 100 3,937" 4/6							See Fordson

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								FORDSON (See also Perkins)		
3.152	Perkins	17.4:1	3	91.49	2490	26.5	36	Tractor super-Dexta	09750.1	215
4 D, 592 E		16:1	4/6	100	3611	51	69		10898.1	113
6 D, 590 E		16:1	6	100	5416	79.5	108	Major Tractor, 4 D Thames Trader 1.5-5 ton., 6 D Thames Trader 4-7 ton., 20-4 D 132 /146, 30-4 D 118 /138 /146 /166, 40-6 D 138 /152, 55-6 D 138 /152	10898.1	113

1	2	3	4	5	6	7	8	8
FORDSON								
		 	Type	 $\varnothing \times L$	 			
<p>3.152 2490 cc, 17.4:1, 26.5 KW (36 HP) Indirect Injection Diesel 1961-1965 Tractor super-Dexta</p> <p>4 D, 592 E 3611 cc, 16:1, 51 KW (69 HP) Direct Injection Diesel</p> <p>6 D, 590 E 5416 cc, 16:1, 79.5 KW (108 HP) Direct Injection Diesel 1965-1975 4 D Thames Trader 1.5-5 ton., 20-4 D 132 /146, 30-4 D 118 /138 /146 /166, 40-6 D 138 /152, 55-6 D 138 /152, 6 D Thames Trader 4-7 ton., Major Tractor</p>	<p>09750.1 91,49 3,602" 3</p> <p>10898.1 100 3,937" 4/6</p>   <p>10-0049</p>	<p>70,97 -1,7-24,67 x 118,11</p>		<p>34.92 x 85</p>	<p>1 001' 2,380 1 005 2,380 1 005 2,380 1 231 4,750 1 030 4,760</p>	<p>Std.</p>  <p>4034715 A=108.61 L=222.76 C=117.4 H+F= 11.176+0.635</p>  <p>4060910 A=111.76 L=222.885 C=119.634 H+F= 11.175+0.64</p>  <p>4060965 A=112.26 L=222.885 C=119.634 H+F= 11.175+0.64</p>	<p>See Perkins</p> <p>7346205 6346200</p> <p>5013304</p> <p>5346202</p> <p>5249300</p>	

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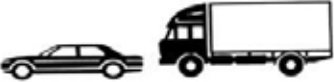

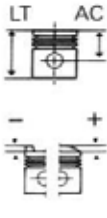

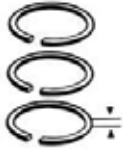


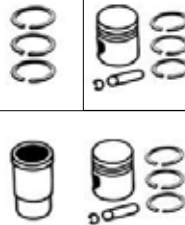
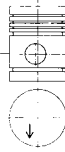
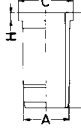
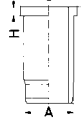

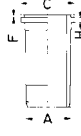
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								HYUNDAI (See Mitsubishi)		
4D56TI	Mitsubishi		4	91.1	2477			H200 2.5 TD, D4 BH	90109.1 90108.1	178 178

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								I.H.C (See International-Harvester)		
BD 154	International-Harvester		4	88.9	2520				08578.1	117
D 155, UD 155	International-Harvester	16:1	3	98.425	2533	25.5/43	35/58.5		90014.1	119
									90013.1	119
D 268	International-Harvester	15/16:1	4	100	4386	56.5/64.5	77/88		10284.1	119
D 310, UD 310	International-Harvester	16:1	6	98.425	5070	62/90.5	84/123		90014.1	119
									90013.1	119
D 358, UD 358	International-Harvester	16:1	6	98.425	5870	66/104	90/141.5		90011.1	118
									90012.1	118
DD 179, UD 179	International-Harvester	16:1	3	98.425	2933	35.5/50	48/68		90012.1	118
									90011.1	118
DD 206, HD 206	International-Harvester	16:1	4	98.425	3382	39.5/58	54/79		90014.1	119
									90013.1	119
DD 239	International-Harvester	16:1	4	98.425	3911	47/67	64/91		90011.1	118
									90012.1	118
DT 239	International-Harvester	16:1	4	98.425	3920	62.5	85		90017.1	117
DT 358	International-Harvester	16:1	6	98.425	5867	88/126.5	120/172		90017.1	117

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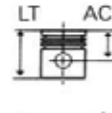

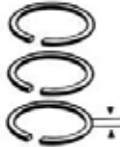











Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
INTERNATIONAL-HARVESTER										
BD 154			4	88.9	2520			238, 364, 384, 414, 424, 434, 444, 2424, 2444, Tractor, 7000 Forklift	08578.1	117
D 155, UD 155		16:1	3	98.425	2533	25.5/43	35/58.5	Tractor D 353, D 383, D 423, D 433, D 453, D 533	90014.1 90013.1	119 119
D 268		15/16:1	4	100	4386	56.5/64.5	77/88	Tractor 270 A, 844 S /A, 845, TD 8C, Utility / Row Crop 884, Payloader 510 /B	10284.1	119
D 310, UD 310		16:1	6	98.425	5070	62/90.5	84/123	Tractor 686, 706, 756, 946, 955, 2706, 2756, 3820, Combine 431, 531, 871, 891, Loader 165, Cotton Picker 616, 622, Forklift 9000, Crawler loader 165, Cotton Harvester 95	90014.1 90013.1	119 119
D 358, UD 358		16:1	6	98.425	5870	66/104	90/141.5	Tractor 826, 886, 955 XL, D 1046 /A, D 1055 /A, 2826, 3288, 3414, Excavator 3965 B, Combine 531, 630, 1420, Payloader 515 /B, 640, 3964 B, 3965 B, 3966 B, 3984	90011.1 90012.1	118 118
DD 179, UD 179		16:1	3	98.425	2933	35.5/50	48/68	Tractor 240, 454, 464, 484, D 523 /A, D 553 /A, D 633 /A /V /E, Forklift 4500, Loader 2400	90012.1 90011.1	118 118
DD 206, HD 206		16:1	4	98.425	3382	39.5/58	54/79	D 624 /A, Tractor D 554 /A, 584, Utility /Row Crop, D 644 /A, D 654 /A, 733 /E, Combine D 8-4, 8-51, 221, 851	90014.1 90013.1	119 119
DD 239		16:1	4	98.425	3911	47/67	64/91	Tractor 250, 260, 544, 574, 674, 684, 2500, 2510, 2544, 3500, 3514, D 724 /A, 743 /XL, D 744 /A, 745 XL /S, D 824 /A, Combine 8-61, 8-71, 421, 431, 861, Loader 100 E, TD 7E, 515 B, Dozer TD-7E-PS, Windrower 5000, 5550	90011.1 90012.1	118 118
DT 239		16:1	4	98.425	3920	62.5	85	Tractor 856 XL	90017.1	117
DT 358		16:1	6	98.425	5867	88/126.5	120/172	Loader H65 C, Tractor D 1464 /A, 1255 /XL, Combine 953, Loader 520 /B, Excavator 640	90017.1	117

			Type					
1	2	3	4	5	6	7	8	8
INTERNATIONAL-HARVESTER								
BD 154 2520 cc, Diesel (154 cub. inch.) 1963... 238, 2424, 2444, 364, 384, 414, 424, 434, 444, 7000 Forklift, Tractor	08578.1 88,9 3,500" 4  08-0056	50,9 x 98,98 4		28 x 77	1 301 2,381 1 001 2,380 1 022 2,380 1 030 4,762 1 030 4,762	Std.  4062914 A=93.688 L=185.73 C=101.498 H= 5.77  4064410 A=93.66 L=185.7 C=101.68 H= 5.77	7340001 6340003 5340005 (From Series 57679) 5457804 (to series 57678)	
DT 239 3920 cc, 16:1, 62.5 KW (85 HP) Turbocharged Diesel Tractor 856 XL DT 358 5867 cc, 16:1, 88/126.5 KW (120 /172 HP) Turbocharged Diesel 1972... 1255 /XL, Combine 953, Excavator 640, Loader 520/B, Loader H65 C, Tractor D 1464/A	90017.1 98,42 3,875" 4/6  09-8702	66.9 -23.9 x 106.9	IN	38 x 82	1 308' 3,160 1 341 2,385 1 533 4,747	Std.  4082315 A=110.75 L=216.1 C=119 H+F= 7.7+1.1	7114505 6290001 5290003	

			Type					
1	2	3	4	5	6	7	8	

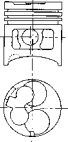
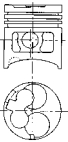
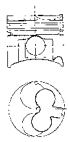
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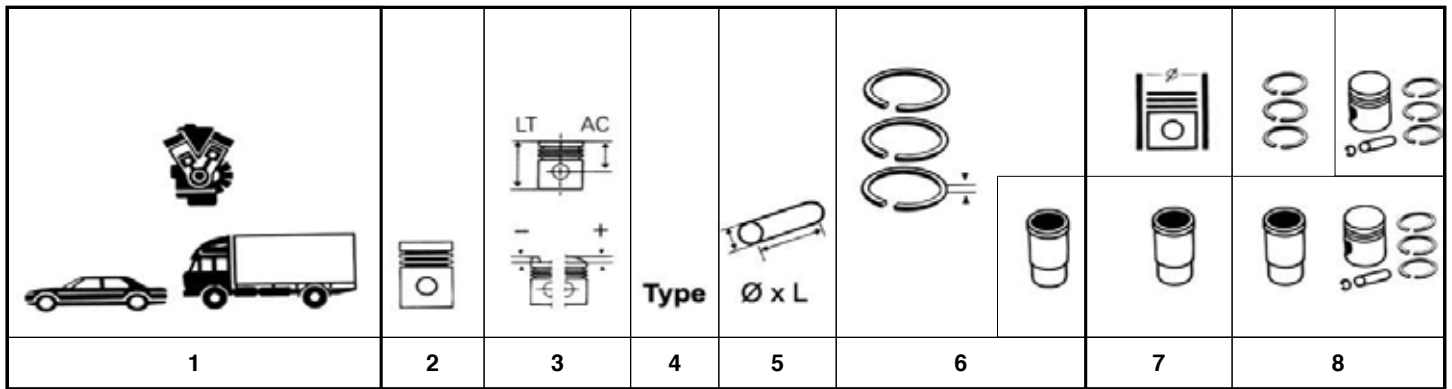
<p>D 358, UD 358 5870 cc, 16:1, 66/104 KW (90 /141.5 HP) 1965... 1420, 2826, 3288, 3414, 3964 B, 3965 B, 3966 B, 3984, 630, 640, 886, 955 XL, Combine 531, D 1046/A, D 1055 /A, Excavator 3965 B, Payloader 515 /B, Tractor 826</p>	90011.1	67		36	1 308' 3,160	Std.	7114505 6114500
	<p>98,425 x 3/4/6</p>	-24		x	1 341 2,385		
<p>DD 179, UD 179 2933 cc, 16:1, 35.5/50 KW (48/68 HP) Diesel 1965... 454, 464, 484, D 523/A, D 553/A, D 633/A /V /E, Forklift 4500, Loader 2400, Tractor 240</p>	09-8702	107	IN	82	1 533 4,747	4082315 A=110.75 L=216.1 C=119 H+F= 7.7+1.1	5114502
	<p>DD 239 3911 cc, 16:1, 47/67 KW (64/91 HP) Diesel 1967... 2500, 2510, 2544, 260, 3500, 3514, 421, 431, 515 B, 544, 5550, 574, 674, 684, 743 /XL, 745 XL /S, 8-71, 861, Combine 8-61, D 724 /A, D 744/A, D 824 /A, Dozer TD-7E-PS, Loader 100 E, TD 7E, Tractor 250, Windrower 5000</p>	90012.1	67		36	1 301 3,160	Std.
<p>98,425 x 3/4/6</p>	-24		x	1 055 2,385			
	<p>DD 239 3911 cc, 16:1, 47/67 KW (64/91 HP) Diesel 1967... 2500, 2510, 2544, 260, 3500, 3514, 421, 431, 515 B, 544, 5550, 574, 674, 684, 743 /XL, 745 XL /S, 8-71, 861, Combine 8-61, D 724 /A, D 744/A, D 824 /A, Dozer TD-7E-PS, Loader 100 E, TD 7E, Tractor 250, Windrower 5000</p>	09-8703	102		82	1 231 4,747	4082315 A=110.75 L=216.1 C=119 H+F= 7.7+1.1

			Type	 Ø x L					
1	2	3	4	5	6		7	8	
INTERNATIONAL-HARVESTER									
D 155, UD 155 2533 cc, 16:1, 25.5/43 KW (35 /58.5 HP) Diesel 1966... D 383, D 423, D 433, D 453, D 533, Tractor D 353 D 310, UD 310 5070 cc, 16:1, 62/90.5 KW (84/123 HP) 1965... 2706, 2756, 3820, 531, 622, 706, 756, 871, 891, 946, 955, Combine 431, Cotton Harvester 95, Cotton Picker 616, Crawler loader 165, Forklift 9000, Loader 165, Tractor 686 DD 206, HD 206 3382 cc, 16:1, 39.5/58 KW (54/79 HP) 1965... 221, 584, 733 /E, 8-51, 851, Combine D 8-4, D 624 /A, D 644/A, D 654/A, Tractor D 554 /A, Utility/Row Crop	90013.1 98,425 3,875" 3/4/6   09-8702 Cámara de combustión Ø 55 mm Combustion bowl Ø 55 mm Chambre de combustion Ø 55 mm	67 -19,9 x 107	IN	36 x 82	1 308' 3,160 1 341 2,385 1 533 4,747	Std.  4083914 A=110.75 L=201.1 C=119 H+F= 7.7+1.1	7114505 6264904 5264906		
221, 584, 733 /E, 8-51, 851, Combine D 8-4, D 624 /A, D 644/A, D 654/A, Tractor D 554 /A, Utility/Row Crop	90014.1 98,425 3,875" 3/4/6   09-8703 Cámara de combustión Ø 55 mm Combustion bowl Ø 55 mm Chambre de combustion Ø 55 mm	67 -19,9 x 102	IN	36 x 82	1 301 3,160 1 055 2,385 1 231 4,747	Std.  4083914 A=110.75 L=201.1 C=119 H+F= 7.7+1.1	7265005 6265000 5265002		
D 268 4386 cc, 15/16:1, 56.5/64.5 KW (77 /88 HP) Diesel 1974... 844 S/A, 845, Payloader 510 /B, TD 8C, Tractor 270 A, Utility / Row Crop 884	10284.1 100 4   10-9001	67 -24 x 107	IN	36 x 82	1 308' 3,160 1 055' 2,380 1 530 4,747	Std.  4083811 A=110.75 L=216.1 C=119 H+F= 7.7+1.1	7305001 6305003 5305005		







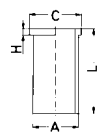
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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								ISUZU		
4EC1		23:1	4	76	1488	37	50	Gemini 1.5 L	70604.1	121
4EC1T		22.5:1	4	76	1488	49	67	Gemini 1.5 L TD	70605.1	121
4EE1			4	79	1686			Corsa	70904.1	122
4FD1		21.5:1	4	88	2238	45	61	Fargo WFR 531, 532, Fargo WFR 53 D, 53 F, Fargo WFR, WFS 53	80816.1	122
4JB1T			4	93	2771			Bighorn 2800 4WD	90306.1	122
X17DT (TC4EE1)		22:1	4	79	1686	60.5	82	Vectra 1.7 TD /GL /GLS /Century /Riviera /CD /CDX, Astra	70901.1	121

1	2	3	4	5	6		7	8	
ISUZU									
4EC1 1488 cc, 23:1, 37 KW (50 HP) Diesel 1988... Gemini 1.5 L	70604.1 76 4  07-9303	41,7 -0,5-1,6 x 71,7	IN ATM	22 x 60	1 301' 2,000 1 005' 1,500 1 533 3,000	Std. .50 1.00		7343803 7343814 7343825	6343805 6343816 6343820
4EC1T 1488 cc, 22.5:1, 49 KW (67 HP) Turbodiesel 1988... Gemini 1.5 L TD	70605.1 76 4  07-9303	41,7 -0,5-1,6 x 71,7	IN ATM	25 x 60	1 301' 2,000 1 005' 1,500 1 533 3,000	Std. .50 1.00		7343803 7343814 7343825	6343901 6343912 6343923
X17DT (TC4EE1) 1686 cc, 22:1, 60.5 KW (82 HP) Turbocharged Diesel 02/92... Astra Vectra 1.7 TD /GL /GLS /Century /Riviera /CD /CDX	70901.1 79 4  07-9604	39,7 -1,4-0,4 x 69,7	IN ATM	27 x 64	1 394' 2,000 1 005 1,500 1 533 3,000	Std. .50 1.00		7357206 7357210 7357221	6357201 6357212 6357223



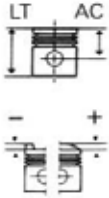

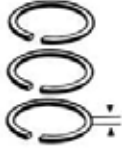


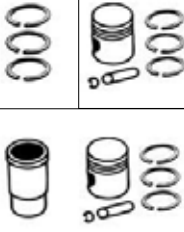




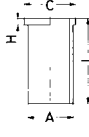
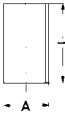
ISUZU



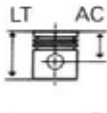
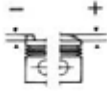

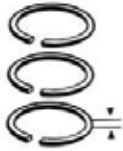


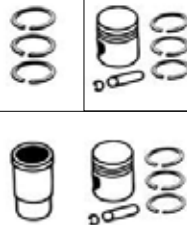

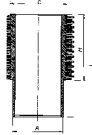

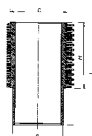
4EE1 1686 cc, Corsa	70904.1 79 4   07-9604	39.7 -0.4-1.4 x 69.7	ATM IN	25 x 60	1 394' 2,000 1 005 1,500 1 533 3,000	Std. .50 1.00	7357206 6378002 7357210 6378013 7357221 6357221
4FD1 2238 cc, 21.5:1, 45 KW (61 HP) Diesel Fargo WFR, WFS 53 1983 ... Fargo WFR 53 D, 53 F 1984 ... Fargo WFR 531, 532 1985 ...	80816.1 88 4   08-9303	46,5 -0,5-2,2 x 81	IN ATM	27 x 68	1 301' 2,000 1 022 2,000 1 533 4,000	Std. .50	7340200 6340202 7340211 6340213
4JB1T 2771 cc, Diesel Turbo Bighorn 2800 4WD	90306.1 93 4   09-0001	51.85 -0.55-13.75 x 91.85	IN ATM	34 x 78	1 394' 2,000 1 023 2,000 1 533 4,000 1 001' 2,000 1 023 2,000 1 231 4,000 	Std. Std. 4422515 A=95 L=181 C=101 H= 1	7374603 6374605 7374802 6374804

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								IVECO (See also Fiat, Knorr)		
8140.21		18:1	4	93	2445	68	92	Daily-Turbo 35.10, 40.10, 45.10, 49.10	90304.1	124
8140.23.3700 /3761/3801 /3861, 8140.43.3700 /3731 Euro 2	Fiat	18.5:1	4	94.40	2798	77/85	105/115	Daily-Turbo 49.12, 59.12, 35.12 City	90440.1	99
8140.61/.200 /.230 /.300		21:1	4	93	2445	53	72	Daily /Grinta 30.8, 32.8, 35.8, 40.8	90300.1	124
8160.61		21:1	6	93	3668	79	108	55 L, 70 L	90300.1	124
BF 6 L 913		15.5:1	6	102	6128	107/117.5	145/160	Baurehie 80, 110, 130, 160, 168	10287.1	125
BF 6 L 913 T		15.5:1	6	102	6128	95.5	130	Baurehie 80, 90, 130	10291.1	125
Compresor	Knorr		1/2	86				Compresor	08695.1	135

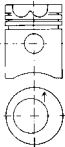
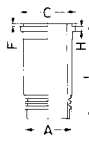
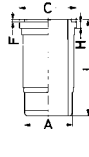
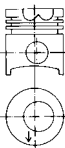

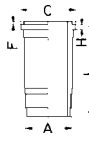
			Type	 Ø x L				
1	2	3	4	5	6	7	8	



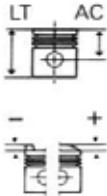

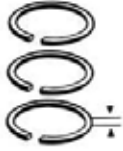


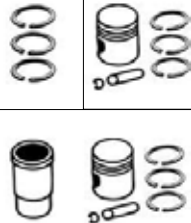
IVECO									
Compresor Compresor	08695.1 86 1/2								See Knorr
8140.61/.200 /.230 /.300 2445 cc, 21:1, 53 KW (72 HP) Diesel 1980... 32.8, 35.8, 40.8, Daily/Grinta 30.8	90300.1 93 4/6	55 -2,2 x 90		32 x 74.4	1 301' 1 626 1 533	3,000 2,000 4,000	Std. .40 .60	7056803 6056805 7056825 6056820 7056836 6056831	
8160.61 3668 cc, 21:1, 79 KW (108 HP) Diesel 55 L, 70 L	  09-8202		IN ALM				 4415913 A=96 L=170.5 C=99 H= 4.8  4415810 A=96 L=170.5 C=0 H= 0		
8140.21 2445 cc, 18:1, 68 KW (92 HP) Turbocharged Diesel 1986... 40.10, 45.10, 49.10, Daily-Turbo 35.10	90304.1 93 4	59.65 -14.8 x 97.65		32 x 74.4	1 308' 1 955 1 533	3,000 2,000 3,000	Std. .40 .60	7354406 6354504 7354410 6354515 7354421 6354526	
8140.23.3700 /3761/3801 /3861, 8140.43.3700 /3731 Euro 2798 cc, 18.5:1, 77/85 KW (105 /115 HP) Turbo Intercooler Diesel 08/96... 35.12 City, 59.12, Daily-Turbo 49.12	90440.1 94,4 4								See Fiat

1	2	3	4	5	6		7	8													
		 	Type	 Ø x L	 																
1	2	3	4	5	6		7	8													
IVECO																					
BF 6 L 913 6128 cc, 15.5:1, 107/117.5 KW (145 /160 HP) Turbocharged Diesel 1982... 110, 130, 160, 168, Baurehie 80	10287.1 102 6	69.1 +6-17.6 x 123.6	G IN	40 x 80	<table border="1"> <tr><td>1</td><td>948'</td><td>3,000</td></tr> <tr><td>1</td><td>306'</td><td>3,000</td></tr> <tr><td>1</td><td>005</td><td>2,500</td></tr> <tr><td>1</td><td>533</td><td>5,000</td></tr> </table>		1	948'	3,000	1	306'	3,000	1	005	2,500	1	533	5,000	Std. .50 4118516 A=109.84 L=222.3 C=119.9 H= 136.8	7362902 6362904 7362913 6362915 5362906	
1	948'	3,000																			
1	306'	3,000																			
1	005	2,500																			
1	533	5,000																			
																					
																					
Cámara de combustión Ø58 mm Combustion bowl Ø58 mm Chambre de combustion Ø58 mm																					
BF 6 L 913 T 6128 cc, 15.5:1, 95.5 KW (130 HP) Turbocharged Diesel 1983... 130, 90, Baurehie 80	10291.1 102 6	69.1 +6-17.6 x 123.6	G IN	35 x 80	<table border="1"> <tr><td>1</td><td>948'</td><td>3,000</td></tr> <tr><td>1</td><td>305</td><td>2,500</td></tr> <tr><td>1</td><td>005</td><td>2,500</td></tr> <tr><td>1</td><td>533</td><td>5,000</td></tr> </table>		1	948'	3,000	1	305	2,500	1	005	2,500	1	533	5,000	Std. .50 4118516 A=109.84 L=222.3 C=119.9 H= 136.8	7367500 6367502 7367511 6367513 5367504	
1	948'	3,000																			
1	305	2,500																			
1	005	2,500																			
1	533	5,000																			
																					
																					
Cámara de combustión Ø58 mm Combustion bowl Ø58 mm Chambre de combustion Ø58 mm																					

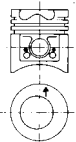
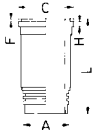
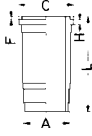

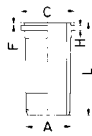

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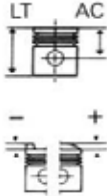

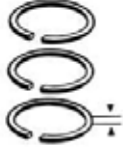

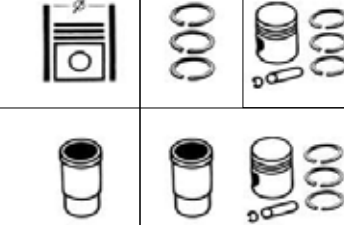
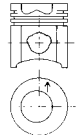

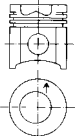

Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
JOHN DEERE-LANZ										
300 NA, 3179 D		16.8:1	3	106.482	2940	28/41	38/56		10610.1	128
300 NA, 4039 D		17.8:1	4	106.482	3920	60	80		10610.1	128
300 NA, 4045 D		16.3:1	4	106.482	4524	63	85		10610.1	128
300 NA, 6059 D		17.8:1	6	106.482	5878	89	120		10610.1	128
300 NA, 6068 D		16.3:1	6	106.482	6786	97	130		10610.1	128
310/510		16.7:1	3	98	2490	23.5/29.5	32/40		09806.1	127
3164 DL 01, JD 164		16.7:1	3	101.982	2696	41	56	Tractor 1520	10202.1	128
3164 DL 03		16.7:1	3	101.982	2690	26/37.5	35/51	Tractor 830, 930, 1020, 1030, 1035, 1120, 1130, 1530, 2020, 2040, Combine 890, 925, 930	10199.1	127
3179		16/16.8:1	3	106.482	2938	41/44	56/60	Combine 932, Tractor 840, 940, 1040, 1140, 1630, 1850	10668.1	129
4219 DL 01		16.7:1	4	101.982	3588	53	72	Tractor 2030, 2120, 2520, Wheel Loader JD 410, Combine 3300, Skidder JD 440	10202.1	128
4219 DL 03		16.7:1	4	101.982	3590	50	68	Tractor 2030, 2035, 2440, 3030, 3130, Combine 935, Wheel Loader JD 410	10199.1	127
4239		16/16.8:1	4	106.482	3920	51.5/55	70/75	2040 /S, Tractor 1640, 1840, 2040, 2030, 2130, 2450, Combine 942, 952	10668.1	129
4239 T		16.8:1	4	106.482	3920	60.5/67	82/91	Tractor 2140, 2650, 2850	10670.1	129
6239 DL 01, JD 329		16.7:1	6	101.982	5395	66	90	Tractor 3120	10202.1	128
6329 DL 03		16.2:1	6	101.982	5380	65,5	89	Tractor 3030, 3130, 3135, 4030, Combine 955, Combine 6600	10199.1	127
6359		16/16.8:1	6	106.48	5880	66,84,5	90/115	Tractor 3040, 3140, 3350, Combine 975, Combine 955	10668.1	129
6359 T		16.8:1	6	106.482	5880	82.5/102	112/139	Tractor 3340, Tractor 4040, Combine 1065, 1072, 1075	10670.1	129
710		16.7:1	4	98	3320	38	50	T 100 /700 /1010 /1020 /2020 /2510, HI-LO, JD 450, 3120	09806.1	127

1	2	3	4	5	6	7	8
JOHN DEERE-LANZ							
<p>310/510 2490 cc, 16.7:1, 23.5/29.5 KW (32 /40 HP) Diesel</p> <p>710 3320 cc, 16.7:1, 38 KW (50 HP) Diesel 1964-1967 3120, HI-LO, JD 450, T 100 /700 /1010/1020 /2020 /2510</p>	<p>09806.1 97,996 3/4</p>  <p>09-8606</p>	<p>57,3 -16,5 x 99,3</p>		<p>30,168 x 81,23</p>	<p>1 301 2,355 1 005 2,375 1 533 5,000</p>  	<p>Std. 4057314 A=107.64 L=196.8 C=123 H+F= 6.06+0.7</p> <p>4102711 A=107.61 L=196.8 C=123 H+F= 6.04+0.72</p>	<p>7348202 6348204 5443406 5348206</p>
<p>3164 DL 03 2690 cc, 16.7:1, 26/37.5 KW (35 /51 HP) Diesel 1967... Combine 890, 925, 930 Tractor 830, 930, 1020, 1030, 1035, 1120, 1130, 1530, 2020, 2040</p> <p>4219 DL 03 3590 cc, 16.7:1, 50 KW (68 HP) 1968... 2035, 2440, 3030, 3130, Combine 935, Tractor 2030, Wheel Loader JD 410</p> <p>6329 DL 03 5380 cc, 16.2:1, 65,5 KW (89 HP) Diesel 1973... 3130, 3135, 4030, Combine 6600, Combine 955, Tractor 3030</p>	<p>10199.1 101,982 3/4/6</p>  <p>10-8801</p>	<p>66,3 -20,85 x 112</p>	<p>IN</p>	<p>34,925 x 84,4</p>	<p>1 948' 3,160 1 005 2,392 1 533 5,000</p>  	<p>Std. 4066613 A=111.03 L=196.8 C=125 H+F= 6.04+0.72</p> <p>4109711 A=111.04 L=196.9 C=125 H+F= 6.04+0.82</p>	<p>7420604 6480504 5480602 5480506</p>

			Type					
1	2	3	4	5	6	7	8	



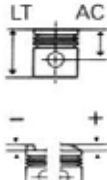

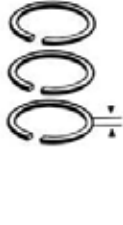


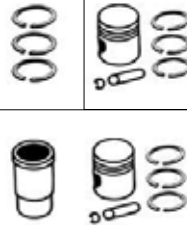
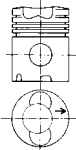
JOHN DEERE-LANZ

<p>3164 DL 01, JD 164 2696 cc, 16.7:1, 41 KW (56 HP) Diesel Tractor 1520</p>	10202.1 101,982 3/4/6	57,3 -16,51 x 103,1		30.168 x 84.61	1 948' 1 005 1 533	3,160 2,392 5,000	Std.	7420604 6420606
<p>4219 DL 01 3588 cc, 16.7:1, 53 KW (72 HP) Diesel 2120, 2520, Combine 3300, Skidder JD 440, Tractor 2030, Wheel Loader JD 410</p>			ATM				 4066613 A=111.03 L=196.8 C=125 H+F= 6.04+0.72	5475901
<p>6239 DL 01, JD 329 5395 cc, 16.7:1, 66 KW (90 HP) Diesel 1968-1973 Tractor 3120</p>	10-5968						 4109711 A=111.04 L=196.9 C=125 H+F= 6.04+0.82	5420601
<p>300 NA, 3179 D 2940 cc, 16.8:1, 28/41 KW (38/56 HP) Diesel</p>	10610.1 106,482 3/4/6	66.3 -18.8 x 112		34.925 x 84.4	1 958' 1 095 1 530	3,160 2,381 3,455	Std.	7223705 6374701
<p>300 NA, 4039 D 3920 cc, 17.8:1, 60 KW (80 HP) Diesel</p>			IN				 4083310 A=115.70 L=196.82 C=126 H+F= 6.04+0.82	5374703
<p>300 NA, 4045 D 4524 cc, 16.3:1, 63 KW (85 HP) Diesel</p>								
<p>300 NA, 6059 D 5878 cc, 17.8:1, 89 KW (120 HP) Diesel</p>	10-0001							
<p>300 NA, 6068 D 6786 cc, 16.3:1, 97 KW (130 HP) Diesel</p>								



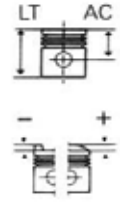

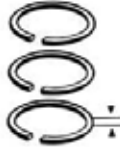


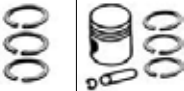

			Type	 $\varnothing \times L$					
1	2	3	4	5	6		7	8	
JOHN DEERE-LANZ									
<p>3179 2938 cc, 16/16.8:1, 41/44 KW (56 /60 HP) Diesel Combine 932, Tractor 840, 940, 1040, 1140, 1630, 1850</p> <p>4239 3920 cc, 16/16.8:1, 51.5/55 KW (70 /75 HP) Diesel 1840, 2030, 2040, 2040 /S, 2130, 2450, Combine 942, 952, Tractor 1640</p> <p>6359 5880 cc, 16/16.8:1, 66,84,5 KW (90 /115 HP) Diesel Combine 955, Tractor 3040, 3140, 3350 Combine 975</p>	<p>10668.1 106,482 3/4/6  10-8205</p>	<p>66.3 -18.7 x 112</p>	IN	<p>34,925 x 84,4</p>	<p>1 958' 3,160 1 095 2,381 1 530 3,455</p>	<p>Std. </p>	<p>4083310 A=115.70 L=196.82 C=126 H+F= 6.04+0.82</p>	<p>7223705 6223700 5296406</p>	
<p>4239 T 3920 cc, 16.8:1, 60.5/67 KW (82 /91 HP) Turbocharged Diesel 2650, 2850, Tractor 2140</p> <p>6359 T 5880 cc, 16.8:1, 82.5/102 KW (112 /139 HP) Turbocharged Diesel Combine 1065, 1072, 1075, Tractor 3340, Tractor 4040</p>	<p>10670.1 106,482 4/6  10-1977</p>	<p>66,3 -19,54 x 112,5</p>	IN	<p>41,275 x 84,46</p>	<p>1 958' 3,150 1 945 2,381 1 530 3,455</p>	<p>Std. </p>	<p>4083310 A=115.70 L=196.82 C=126 H+F= 6.04+0.82</p>	<p>7223602 6223604 5296502</p>	

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

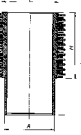


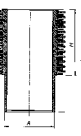
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								K.H.D. (See also Fiat)		
8040.05	Fiat	17:1	4	104	3908	65	88		10458.1	100
8040.25	Fiat	16.5:1	4	104	3907	74/84.5	101/115		10459.1	100
8060.05	Fiat	17:1	6	104	5862	102	139	109.14, Zeta 50.9, 75.15, 95.14, 65.9, 80.14, 79.14, 115.14	10458.1	100
8060.25	Fiat	16.5:1	6	104	5861	130	177	Zeta 60.11, 79.12, 65.12, 115.17, 110.17, 135.17, 145.17, 157.17	10459.1	100
BF 4 L 913		15:1	4	102	4086	64/78	87/106	DX 80, Baureihe 90, Tractor DX 4.70	10287.1	132
BF 4 L 913 T		15.5:1	4	102	4086	60/64	82/87	Tractor DX 4.50, DX 86	10291.1	132
BF 6 L 913 T		15.5:1	6	102	6128	95	130		10291.1	132
BF 6 L 913/T		15.5:1	6	102	6128	96/117.5	130/160	DX 145, Baureihe 80, 90, 110, 130, 160, 168, DX 160, DX 7.10, DX 6.50, Tractor 13006	10287.1	132
BF 6 L 913C		15.5:1	6	102	6128	131	178		10287.1	132
F 1 L 411 D			1	92	689	4.8/17.7	6.5/24			131
F 2 L 411 D			2	92	1395	4.8/17.7	6.5/24			131
F 2 L 912 D		17:1	2	100	1884	26.5/28	36/38	Tractor D 2506, D 3006	10139.1	131
F 3 L 912 D		17:1	3	100	2826	25.5/28	35/38	Tractor D 4006 /A, D 4505 /A, D 4506 /A, D 5006 /A, D 5206 A, INTRAC 2002 /A	10139.1	131
F 3 L 913		17:1	3	102	3060	42/45	57/61	Tractor DX 3.50, DX 6007	10293.1	133
F 4 L 912 D		17:1	4	100	3768	43/59	58.5/80	Tractor D 5506 /A, D 6006 /A, D 6206 /A, D 6806 /A, D 7006 /A, D 7206 /A, Intrac 2003 /A /S	10139.1	131
F 4 L 913		17:1	4	102	4086	55/64	75/87	Tractor D 7807, DX 3.90, DX 80, Baureihe 90	10293.1	133
F 5 L 912 D		17:1	5	100	4712	62.5/74	85/100.5		10139.1	131
F 6 L 912 D		17:1	6	100	5652	59/82.5	80/112	Tractor D 7506 /A, D 8006 /A, D 9006 /A, D 9009 /A, D 10006 /A	10139.1	131
F 6 L 913		17:1	6	102	6128	81/96	110/130	Tractor DX 6.30, DX 120, Baureihe 120, 130, 130	10293.1	133
FL 210			1	95						131
Pumping engine			1	80						131



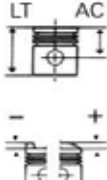

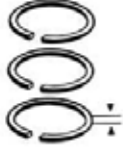


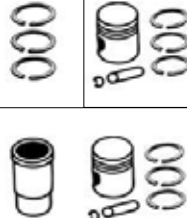
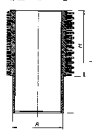
			Type	 $\varnothing \times L$		 	
1	2	3	4	5	6	7	8
K.H.D.							
Pumping engine	100 1				1 301' 2,500 1 055 2,500 1 231 5,000	Std.	7374301
F 1 L 411 D 689 cc, 4.8/17.7 KW (6.5/24 HP) Diesel	92 1/2				1 308' 2,500 1 005 2,500 1 005 2,500 1 533 5,000	Std.	7373601
F 2 L 411 D 1395 cc, 4.8/17.7 KW (6.5/24 HP) Diesel							
FL 210 Diesel	95 1				1 301' 2,500 1 095' 2,550 1 231 5,000	Std.	7373704
F 2 L 912 D 1884 cc, 17:1, 26.5/28 KW (36/38 HP) D 3006, Tractor D 2506	10139.1 100 2/3/4/5/6	71.9 +4-19.9 x 123.6		35 x 80	1 308' 3,000 1 005 2,500 1 005 2,500 1 533 5,000	Std. .50 1.00	7099901 6099903 7099912 6099914 7099923 6099925
F 3 L 912 D 2826 cc, 17:1, 25.5/28 KW (35/38 HP) Diesel D 4505/A, D 4506/A, D 5006 /A, D 5206 A, INTRAC 2002 /A, Tractor D 4006/A						4086821 A=109.84 L=222.3 C=119.9 H= 136.8	5099990
F 4 L 912 D 3768 cc, 17:1, 43/59 KW (58.5/80 HP) Diesel D 6006/A, D 6206/A, D 6806/A, D 7006 /A, D 7206/A, Intrac 2003/A /S, Tractor D 5506/A	10-8104						
F 5 L 912 D 4712 cc, 17:1, 62.5/74 KW (85 /100.5 HP) Diesel							
F 6 L 912 D 5652 cc, 17:1, 59/82.5 KW (80/112 HP) Air Cooled Direct Injection Diesel 1967-1972 D 10006/A, D 8006/A, D 9006/A, D 9009 /A, Tractor D 7506/A							

K

			Type	 Ø x L					
1	2	3	4	5	6	7	8	8	

K.H.D.

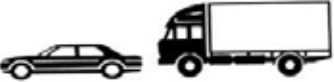
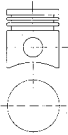
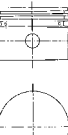

BF 4 L 913 4086 cc, 15.5:1, 64/78 KW (87/106 HP) Diesel Baureihe 90, DX 80, Tractor DX 4.70	10287.1 102 4/6	69.1 +6-17.6 x 123.6		40 x 80	1 948' 3,000 1 306' 3,000 1 005 2,500 1 533 5,000		Std. .50	7362902 6362904 7362913 6362915
BF 6 L 913/T 6128 cc, 15.5:1, 96/117.5 KW (130 /160 HP) Turbocharged Diesel 1973... Baureihe 80, 90, 110, 130, 160, 168, Tractor 13006 DX 145, DX 160, DX 6.50, DX 7.10	  10-9801		G IN				4118516 A=109.84 L=222.3 C=119.9 H= 136.8	5362906
BF 6 L 913C 6128 cc, 15.5:1, 131 KW (178 HP) Turbo Intercooler 1980-1989		Cámara de combustión Ø58 mm Combustion bowl Ø58 mm Chambre de combustion Ø58 mm						
BF 4 L 913 T 4086 cc, 15.5:1, 60/64 KW (82/87 HP) Diesel DX 86, Tractor DX 4.50	10291.1 102 4/6	69.1 +6-17.6 x 123.6		35 x 80	1 948' 3,000 1 305 2,500 1 005 2,500 1 533 5,000		Std. .50	7367500 6367502 7367511 6367513
BF 6 L 913 T 6128 cc, 15.5:1, 95 KW (130 HP) Turbo Diesel 1981...	  10-9801		G IN				4118516 A=109.84 L=222.3 C=119.9 H= 136.8	5367504
		Cámara de combustión Ø58 mm Combustion bowl Ø58 mm Chambre de combustion Ø58 mm						

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8
K.H.D.								
F 3 L 913 3060 cc, 17:1, 42/45 KW (57/61 HP) Diesel DX 6007, Tractor DX 3.50 F 4 L 913 4086 cc, 17:1, 55/64 KW (75/87 HP) Diesel Baureihe 90, DX 3.90, DX 80, Tractor D 7807 F 6 L 913 6128 cc, 17:1, 81/96 KW (110/130 HP) Diesel 1976... 130, Baureihe 120, 130, DX 120, Tractor DX 6.30	10293.1 102 3/4/6	69.1 6-23.6 x 123.6	G IN	35 x 80	1 948* 3,000 1 005 2,500 1 533 5,000	Std. .50  4118516 A=109.84 L=222.3 C=119.9 H= 136.8	7367706 6367701 7367710 6367712 5367703	
8040.05 3908 cc, 17:1, 65 KW (88 HP) 8060.05 5862 cc, 17:1, 102 KW (139 HP) Diesel 1987... 109.14, 115.14, 65.9, 75.15, 79.14, 80.14, 95.14, Zeta 50.9	10458.1 104 4/6							See Fiat
8040.25 3907 cc, 16.5:1, 74/84.5 KW (101 /115 HP) Turbocharged Diesel 1987... 8060.25 5861 cc, 16.5:1, 130 KW (177 HP) Turbocharged Diesel 1986... 110.17, 115.17, 135.17, 145.17, 157.17, 65.12, 79.12, Zeta 60.11	10459.1 104 4/6							See Fiat



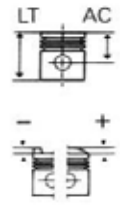
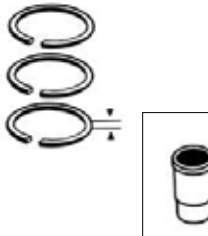

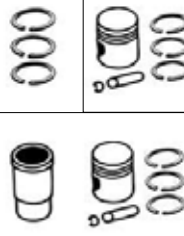
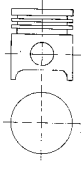
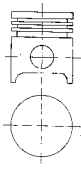

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								KNORR		
Compresor			1	88				LK 19	08804.1	136
Compresor			1	75				LK 15	07527.1	135
Compresor			1/2	86				Phoenix, 460 cc, 315 cc, 630 cc	08695.1	135
Compresor			1/2	78					07801.1	135
Compresor			1/2	92				360 cc, 720 cc	09200.1	136
Compresor			1	80				225 cc	08024.1	135
Compresor			1	88					08839.1	136

1	2	3	4	5	6		7	8		
KNORR										
 Compresor LK 15	07527.1 75 1  07-9401	31 x 60		18 x 63	1 023 2,000 1 023 2,000 1 032 4,000	Std. .25 .50 1.00 .75		7345505 7345531 7345516 7345520 7345542	6353001 6353034 6353012 6353023 6353045	
Compresor	07801.1 78 1/2  07-9701	31 x 60		18 x 63	1 083 2,500 1 083 2,500 1 031 4,000	Std. .50		7372304 7372315	6372306 6372310	
Compresor 225 cc	08024.1 80 1  08-0001	31 x 64		18 x 63	1 095' 2,500 1 023' 2,500 1 232' 4,000	Std. .50 1.00		7389104 7389115 7389126	6389106 6389110 6389121	
Compresor 315 cc 460 cc, 630 cc, Phoenix	08695.1 86 1/2 08-9604	26.50 x 57		18 x 63	1 095 2,000 1 023 2,000 1 232 3,000	Std. .25 .50		7356506 7356510 7388905	6388900 6388911 6388922	

K

1	2	3	4	5	6		7	8		
			Type	Ø x L						
1	2	3	4	5	6		7	8		
KNORR										
Compresor LK 19	08804.1 88 1/2  08-9401	31,5 x 65,5		18 x 63	1 023 2,500 1 023 2,500 1 032 4,000	Std. .25 .50 1.00		7345306 7345332 7345310 7345321	6353104 6353130 6353115 6353126	
Compresor	08839.1 88 1  08-9401	31 x 65		18 x 63	1 023 2,500 1 023 2,500 1 032 4,000	Std. .50 1.00		7345306 7345310 7345321	6358306 6358310 6358321	
Compresor 360 cc 720 cc	09200.1 92 1/2  09-9601	31 x 68		18 x 63	1 095' 2,500 1 023' 2,500 1 232 4,000	Std. .50 1.00		7357604 7387704 7387715	6387706 6387710 6387721	



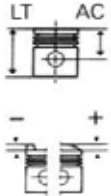

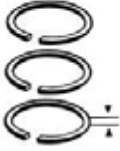




INDICE / INDEX

Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								LADA (See Citroen)		
XUD 9	Citroen	23/23.5:1	4	83	1905	48/51	65/70	Lada Niva	80374.1	78

L

INDICE / INDEX

Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
LAND ROVER										
2.1/4 Ltrs.		23:1	4/6	90.475	2286	45.5	62	Series II and III, 88, 109, Santana 1300	09731.1	140
2.1/4 Ltrs.		23:1	4	90.475	2286	45.5	62	Santana 1300, 88, 109, Santana, Series II and III	09731.7	141
2.5 Ltrs.		21:1	4	90.475	2494	55	75	Defender 90, 110, 130, 90 /110, SHERPA, Santana 2500	90407.1	141
2.5 Ltrs.		8:1	4	90.475	2500	56	76	Santana 2500	09125.1	139
200 Gemini 2, 200 TDI		19.5:1	4	90.475	2486	83	113	Discovery, Defender	90471.1	142
3.1/2 Ltrs.		23:1	4/6	90.475	3249	69	94	S-2000, 109-Cazorla, Santana 3500	09731.1	140
3.1/2 Ltrs.		23:1	4/6	90.475	3249	69	94	Santana 3500, 109-Cazorla, S-2000	09731.7	141
Gemini III DI/TCI		19.34:1	4	90.475	2486	83	113	300 TDI, Land Rover 90, 200 TDI Discovery	90476.1	142

			Type						
1	2	3	4	5	6	7	8		

LAND ROVER

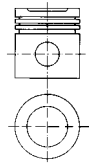
2.5 Ltrs.

2500 cc, 8:1, 56 KW (76 HP)
Petrol Engine
Santana 2500

09125.1†

90,475
3,562"

4



09-8605

54,43
-1,01
x
89,23



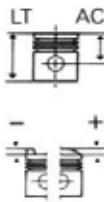

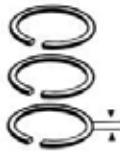


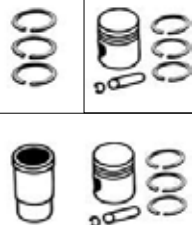
25,4
x
76,2

1	341'	1,778
1	005	1,778
1	533	4,747

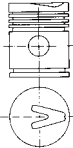
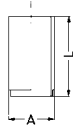


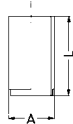
Std.
.010
.020
.030
.040

7289004	6276406
7289030	6276410
7289015	6276421
7289041	6276432
7289026	6276443

† Hasta agotar existencias / Availability only from stock.



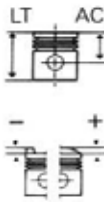

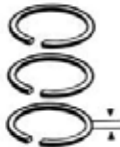


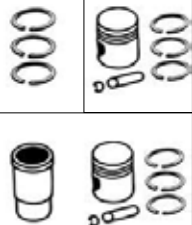
			Type					
1	2	3	4	5	6	7	8	

LAND ROVER





<p>2.1/4 Ltrs. 2286 cc, 23:1, 45.5 KW (62 HP) Diesel 1962... 109, 88, Santana 1300, Series II and III</p> <p>3.1/2 Ltrs. 3249 cc, 23:1, 69 KW (94 HP) Diesel 109-Cazorla, S-2000, Santana 3500</p>	<p>09731.1 90,475 3,562" 4/6</p>  <p>09-0071</p>	<p>58,72 -6,4 x 100,13</p>		<p>30,162 x 74,6</p>	<table border="1"> <tr> <td>1</td> <td>301'</td> <td>2,382</td> <td>Std.</td> <td>7150006</td> <td>6150001</td> </tr> <tr> <td>1</td> <td>005</td> <td>2,381</td> <td>.020</td> <td>7150021</td> <td>6150023</td> </tr> <tr> <td>1</td> <td>005</td> <td>2,381</td> <td>.030</td> <td>7150032</td> <td>6150034</td> </tr> <tr> <td>1</td> <td>533</td> <td>4,747</td> <td>.040</td> <td>7150043</td> <td>6150045</td> </tr> <tr> <td></td> <td></td> <td></td> <td>.060</td> <td>7150054</td> <td>6150056</td> </tr> </table>	1	301'	2,382	Std.	7150006	6150001	1	005	2,381	.020	7150021	6150023	1	005	2,381	.030	7150032	6150034	1	533	4,747	.040	7150043	6150045				.060	7150054	6150056	 <p>4457611 A=94.539 L=190.36</p>  <p>4473512 A=94.539 L=190.36 C=97.7 H= 4.76</p>  <p>4701314 A=94.539 L=190.36 C=97.7 H= 4.76</p>  <p>4704615 A=94.539 L=190.36 C=0 H= 0</p>		<table border="1"> <tr> <td>1</td> <td>301'</td> <td>2,382</td> <td>Std.</td> <td>7161206</td> <td>6161201</td> </tr> <tr> <td>1</td> <td>005</td> <td>2,381</td> <td>.020</td> <td>7161221</td> <td>6161223</td> </tr> <tr> <td>1</td> <td>005</td> <td>2,381</td> <td>.030</td> <td>7161232</td> <td>6161234</td> </tr> <tr> <td>1</td> <td>533</td> <td>4,747</td> <td>.040</td> <td>7161243</td> <td>6161245</td> </tr> <tr> <td>1</td> <td>030</td> <td>4,762</td> <td>.060</td> <td>7161254</td> <td>6161256</td> </tr> </table>	1	301'	2,382	Std.	7161206	6161201	1	005	2,381	.020	7161221	6161223	1	005	2,381	.030	7161232	6161234	1	533	4,747	.040	7161243	6161245	1	030	4,762	.060	7161254	6161256
1	301'	2,382	Std.	7150006	6150001																																																															
1	005	2,381	.020	7150021	6150023																																																															
1	005	2,381	.030	7150032	6150034																																																															
1	533	4,747	.040	7150043	6150045																																																															
			.060	7150054	6150056																																																															
1	301'	2,382	Std.	7161206	6161201																																																															
1	005	2,381	.020	7161221	6161223																																																															
1	005	2,381	.030	7161232	6161234																																																															
1	533	4,747	.040	7161243	6161245																																																															
1	030	4,762	.060	7161254	6161256																																																															

1	2	3	4	5	6	7	8	LAND ROVER	
			Type	$\varnothing \times L$					
<p>2.1/4 Ltrs. 2286 cc, 23:1, 45.5 KW (62 HP) Diesel 1962... 109, 88, Santana, Santana 1300, Series II and III</p> <p>3.1/2 Ltrs. 3249 cc, 23:1, 69 KW (94 HP) Diesel 109-Cazorla, S-2000, Santana 3500</p>	<p>09731.7† 90,475 3,562" 4/6</p> <p> </p> <p>09-1977</p>	<p>58,72 -6,4 x 98,05</p>	<p>ALM</p>	<p>30.162 x 74.6</p>	<p>1 301' 2,381 1 005 2,381 1 533 4,747</p> <p> </p>	<p>Std. .020 .030 .040</p> <p>4457611 A=94.539 L=190.36</p> <p>4473512 A=94.539 L=190.36 C=97.7 H= 4.76</p> <p>4701314 A=94.539 L=190.36 C=97.7 H= 4.76</p> <p>4704615 A=94.539 L=190.36 C=0 H= 0</p>	<p>7183304 6183306 7183315 6183310 7183326 6183321 7183330 6183332</p>		
<p>2.5 Ltrs. 2494 cc, 21:1, 55 KW (75 HP) Diesel 90/110, SHERPA, Santana 2500 1984 ... Defender 90, 110, 130 1990 ...</p>	<p>90407.1 90,475 3,562" 4</p> <p> </p> <p>09-8502</p>	<p>54,7 -3,7 x 86,2</p>	<p>IN ALM</p>	<p>30,162 x 74,6</p>	<p>1 341' 2,000 1 005 2,000 1 530 4,000</p>	<p>Std. .020 .030 .040 .060</p>	<p>7238604 6238606 7238615 6238610 7238626 6238621 7238630 6238632 7238641 6238643</p>		

† Hasta agotar existencias / Availability only from stock.

			Type	 Ø x L				
1	2	3	4	5	6	7	7	8



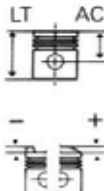

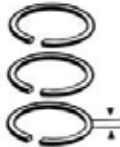


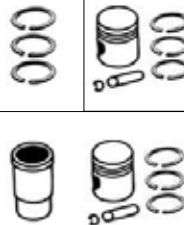
LAND ROVER

200 Gemini 2, 200 TDI 2486 cc, 19.5:1, 83 KW (113 HP) Turbocharged Diesel 1989-1993 Defender, Discovery	90471.1 90,475 3,562" 4   09-9903	55,4 -18,85 x 91,9	ALM IN	30.162 x 77	1 398' 2,500 1 005' 2,000 1 533 3,000	Std. .020 .040	7366903 6366905 7371313 6366916 7371324 6366920
	Gemini III DI/TCI 2486 cc, 19.34:1, 83 KW (113 HP) Turbocharged Diesel 1994... Land Rover 90 200 TDI Discovery, 300 TDI	90476.1 90,475 3,562" 4   09-9902			55,4 -18,4 x 91,9		



INDICE / INDEX

Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								LEYLAND (See also Peugeot)		
410/411/420		15.5:1	6	107.216	6540			Freighter, Chieftain, Cydesdale, Constructor, Reiver	10785.1	144
XD3T	Peugeot	21:1	4	94	2498	71	96	400, 200	90414.1	243

L

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8



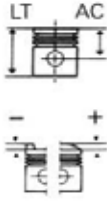

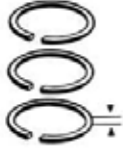


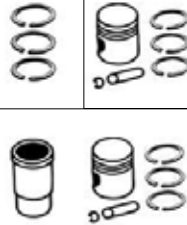






LEYLAND



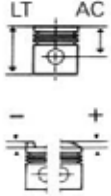

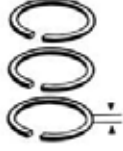





XD3T 2498 cc, 21:1, 71 KW (96 HP) Turbo Intercooler 1989... 200 400	90414.1 94 4							See Peugeot
410/411/420 6540 cc, 15.5:1, Turbocharged Diesel Direct Injection Diesel 1960... Chieftain, Constructor, Cydesdale, Freighter, Reiver	10785.1 107,226 4,221" 6   10-9003	82,1 -2,3-19,4 x 145,6	IN	41.275 x 88.85	1 008' 1 045' 1 232	3,175 2,381 4,762	Std.	7314204 6314206

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								LISTER-PETTER		
ALPHA Series			2/3/4	76				LPA 4, LPA 3, LPA 2	70600.1	146
ALPHA Series			2/3/4	86				LPW 3, LPW 2, LPW 4	80524.1	146
ALPHA Series			2/3/4	86				LPWS 3, LPWS 2, LPWS 4	80525.1	146
ALPHA Series			4	86				LPWT	80529.1	147
TS		15.7:1	1/2/3 /4/5/6	95.25					90525.2	147
TX			2/3	100					10282.1	147

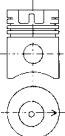
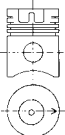
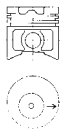
L

1	2	3	4	5	6		7	8
			Type	 Ø x L				
1	2	3	4	5	6		7	8
LISTER-PETTER								
ALPHA Series Air Cooled Diesel Direct Injection Diesel LPA 2, LPA 3, LPA 4	70600.1 76 2/3/4   07-8802	42 -14.18 x 65	ALM	25 x 58	1 394' 1,750 1 005 2,000 1 533 4,000		Std. .25 .50	7315206 6327403 7315210 6327414 7315221 6327425
ALPHA Series Water Cooled Diesel Direct Injection Diesel LPW 2, LPW 3, LPW 4	80524.1 86 2/3/4   08-8801	43.15 -15 x 69.15	ALM	25 x 64	1 394' 1,750 1 005 2,000 1 533 4,000		Std. .25 .50	7315000 6327801 7315011 6327812 7315022 6327823
ALPHA Series Water Cooled Diesel Indirect Injection Diesel LPWS 2, LPWS 3, LPWS 4	80525.1 86 2/3/4   08-8802	43.15 -4 x 69.15	ALM	25 x 64	1 394' 1,750 1 005 2,000 1 533 4,000		Std. .25 .50	7315000 6328000 7315011 6328011 7315022 6328022



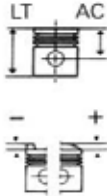

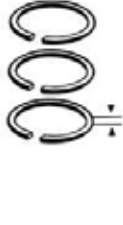

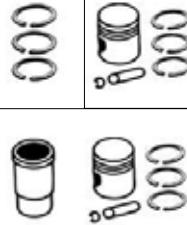

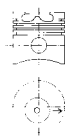
1	2	3	4	5	6			7	8	
			Type							
1	2	3	4	5	6			7	8	
LISTER-PETTER										
ALPHA Series Turbocharged Diesel Direct Injection Diesel LPWT	80529.1 86 4	43.15 -15.5 x 69.15	IN ALM	25 x 64	1 394' 1,750 1 005 2,000 1 533 4,000	Std. .25 .50		7315000 7315011 7315022	6353406 6353410 6353421	
TS 15.7:1, Diesel Air Cooled Diesel	90525.2 95,25 3,750" 1/2/3/4/5/6	65,09 -14,79 x 103,2	IN	33.337 x 79.2	1 308' 3,200 1 005 2,381 1 533 4,747	Std. .010 .020 .030 .040		7373203 7373214 7373225 7373236 7373240	6373205 6373216 6373220 6373231 6373242	
TX Air Cooled Diesel Direct Injection Diesel	10282.1 100 3,937" 2/3	61.4 -22.48 x 91.9	H ALM	33.337 x 75	1 398' 3,000 1 005 2,500 1 533 4,000	Std. .25 .50 1.00		7314705 7314716 7314720 7314731	6338301 6338312 6338323 6338334	



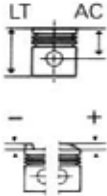

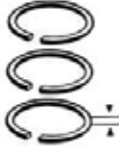

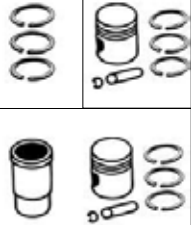
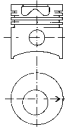
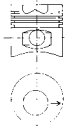
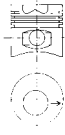
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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
LOMBARDINI										
4LD 705		17:1	1	100	707	11	15		10005.1	150
6LD 400		18:1	1	86	395	6.3	8.5		80604.1	149
832		17.5:1	2	100	1648	22	30		10232.1	151
833		17.5:1	3	100	2472	33	45		10232.1	151
834		17.5:1	4	100	3296	44	60		10232.1	151
LDA 100		17:1	1	100	707	11	15		10097.1	150
LDA 450, LDA 455, 3LD450		17.5:1	1	85	454	7.4	10		80517.1	149
LDA 672		17.5:1	2	95	1346	20.5	28		09533.1	150
LDA 673		17.5:1	3	95	2019	31	42		09533.1	150
LDA 674		17.5:1	4	95	2692	41	56		09533.1	150
LDA 80		17.5:1	1	80					80451.1	149
LDA 820, LDA 825, 4LD 820, 4LD 824		17.5:1	1	102	817	12.5	17		10230.1	151

1	2	3	4	5	6		7	8	
LOMBARDINI									
LDA 80 17.5:1, Direct Injection Diesel	80451.1 80 1  08-8002 1975	52 -12.95 x 90		23 x 64	1 301 2,000 1 005 2,000 1 005 2,000 1 232 4,000	Std. .50 1.00		7412705 6462805 7412716 6462816 7412720 6462820	
LDA 450, LDA 455, 3LD450 454 cc, 17.5:1, 7.4 KW (10 HP) Direct Injection Diesel	80517.1 85 1  08-6973 1975	52 -14.45 x 90		23 x 64	1 301 2,000 1 045 2,000 1 045 2,000 1 533 4,000	Std. .50 1.00		7264806 6264801 7264810 6264812 7264821 6264823	
6LD 400 395 cc, 18:1, 6.3 KW (8.5 HP) Direct Injection Diesel	80604.1† 86 1  08-8703	44 -12,5 x 72	ALM	20 x 67.7	1 301 2,000 1 045 2,000 1 533 4,000	Std. .50		7278003 6278005 7278014 6278016	

† Hasta agotar existencias / Availability only from stock.

1	2	3	4	5	6			7	8		
			Type	 Ø x L							
1	2	3	4	5	6			7	8		
LOMBARDINI											
LDA 672 1346 cc, 17.5:1, 20.5 KW (28 HP)	09533.1 95	59,95 -16 x 99,95		28 x 74	1 301 3,000 1 045 3,000 1 045 3,000 1 533 5,000	Std. .50 1.00	7217302 7217313 7217324	6217304 6217315 6217326			
LDA 673 2019 cc, 17.5:1, 31 KW (42 HP)	2/3/4										
LDA 674 2692 cc, 17.5:1, 41 KW (56 HP) Direct Injection Diesel	 09-1976										
4LD 705 707 cc, 17:1, 11 KW (15 HP) Direct Injection Diesel 1975...	10005.1 100 1	65 -21,5 x 111		28 x 74	1 301 3,000 1 005 2,500 1 005 2,500 1 232 5,000	Std. .50 1.00	7463105 7463116 7463120	6463100 6463111 6463122			
LDA 100 707 cc, 17:1, 11 KW (15 HP) Direct Injection Diesel 1974...	10097.1 100 1	65 -16 x 111		28 x 86	1 301 3,000 1 005 2,500 1 022 2,500 1 232 5,000	Std. .50 1.00	7217604 7217615 7217626	6217606 6217610 6217621			
	 10-1969										

			Type	 $\varnothing \times L$						
1	2	3	4	5	6			7	8	
LOMBARDINI										
832 1648 cc, 17.5:1, 22 KW (30 HP)	10232.1 100	65 -21 x 102		32 x 85	1 301 3,000 1 005 2,500 1 005 2,500 1 232 5,000	Std. .50 1.00	7463105 7463116 7463120	6140503 6140514 6140525		
833 2472 cc, 17.5:1, 33 KW (45 HP)	2/3/4 									
834 3296 cc, 17.5:1, 44 KW (60 HP) Direct Injection Diesel	10-2979 									
LDA 820, LDA 825, 4LD 820, 4LD 824 817 cc, 17.5:1, 12.5 KW (17 HP) Inyección Directa Diesel Direct Injection Diesel	10230.1 102 1	60 -18 x 102		28 x 80	1 301 3,000 1 005 2,500 1 005 2,500 1 232 5,000	Std. .50 1.00	7102104 7102115 7102126	6058102 6058113 6058124		
	10-1978 									

L



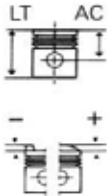









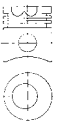
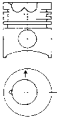
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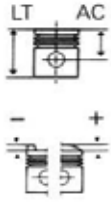

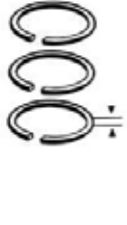

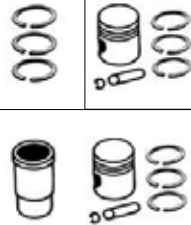
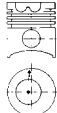
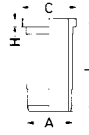
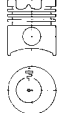

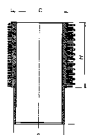
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
M W M										
D 202 Water Cooled			2	95					09509.1	154
D 208 Water Cooled		16.7:1	2	95	1490	23	31		09509.1	154
D 208 Water Cooled		16.7:1	3	95	2235	34	46.5		09509.1	154
D 208 Water Cooled		16.7:1	4	95	3080	45.5	62		09509.1	154
D 208 Water Cooled		16.7:1	6	95	4470	68	/93		09509.1	154
D 225 Water Cooled, D 325 Air Cooled		18:1	2	95	1700	24.5	33		90501.1	155
D 225 Water Cooled, D 325 Air Cooled		18:1	3	95	2550	37	50		90501.1	155
D 225 Water Cooled, D 325 Air Cooled		18:1	4	95	3400	50	68		90501.1	155
D 225 Water Cooled, D 325 Air Cooled		18:1	6	95	5100	75	102		90501.1	155
D 227 Water Cooled 4 cyl.			4	100	3770	54.5	74		10179.1 10251.1	155 156
D 227 Water Cooled 6 cyl.			6	100	5654	82.5	112		10251.1 10179.1	156 155
D 229			3/4/6	102					10259.1	156
D 302 Air Cooled			2	95	1490	23	31		09509.1	154
D 308 Air Cooled		17.2:1	2	95	1490	23	31		09509.1	154
D 308 Air Cooled		17.2:1	3	95	2235	34	46.5		09509.1	154
D 308 Air Cooled		17.2:1	4	95	3080	45.5	62		09509.1	154

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
D 308 Air Cooled		17.2:1	6	95	4470	68	93		09509.1	154
D 327 Air Cooled			2	100	1885	27	36.5		10251.1	156
									10179.1	155
D 327 Air Cooled			3	100	2827	40.5	55		10179.1	155
									10251.1	156
D 327 Air Cooled			4	100	3700	54.5	74		10179.1	155
									10251.1	156
D 327 Air Cooled			6	100	5654	82.5	112		10179.1	155
									10251.1	156
D 987, LKS Air Cooled			1	85	567	8/8.5	11/12		80518.1	154

M

			Type	 $\varnothing \times L$			 	 	 
1	2	3	4	5	6	7	8	9	10
M W M									
D 987, LKS Air Cooled 567 cc, 8/8.5 KW (11/12 HP) Diesel 1974...	80518.1 85 1  08-5975	60 -16 x 92	ALM	26 x 68	1 690' 3,000 1 022 3,000 1 533 5,000	Std. .50 1.00		7214303 7214314 7214325	6214305 6214316 6214320
D 202 Water Cooled D 208 Water Cooled 1490 cc, 16.7:1, 23 KW (31 HP) D 208 Water Cooled 2235 cc, 16.7:1, 34 KW (46.5 HP) D 208 Water Cooled 3080 cc, 16.7:1, 45.5 KW (62 HP) D 208 Water Cooled 4470 cc, 16.7:1, 68 KW (93 HP) Diesel D 302 Air Cooled 1490 cc, 23 KW (31 HP) Diesel (Spanish Engine) 1972... D 308 Air Cooled 1490 cc, 17.2:1, 23 KW (31 HP) D 308 Air Cooled 2235 cc, 17.2:1, 34 KW (46.5 HP) D 308 Air Cooled 3080 cc, 17.2:1, 45.5 KW (62 HP) D 308 Air Cooled 4470 cc, 17.2:1, 68 KW (93 HP) Diesel 1965-1973	09509.1 95 2/3/4/6  05-5975	60 -20.9 x 113	ALM	32 x 82	1 307 3,000 1 005 3,000 1 022 3,000 1 533 5,000	Std. .50 1.00		7443203 7443214 7443225	6482302 6482313 6482324



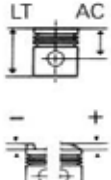




1	2	3	4	5	6		7	8	
M W M									
			Type	$\varnothing \times L$ 					
<p>D 225 Water Cooled, D 325 Air Cooled 1700 cc, 18:1, 24.5 KW (33 HP)</p> <p>D 225 Water Cooled, D 325 Air Cooled 2550 cc, 18:1, 37 KW (50 HP)</p> <p>D 225 Water Cooled, D 325 Air Cooled 3400 cc, 18:1, 50 KW (68 HP)</p> <p>D 225 Water Cooled, D 325 Air Cooled 5100 cc, 18:1, 75 KW (102 HP) Diesel 1967...</p>	<p>90501.1</p> <p>95</p> <p>2/3/4/6</p>  <p>09-5975</p>	<p>59,8</p> <p>-17,5</p> <p>x</p> <p>112,8</p>	<p>ALM</p>	<p>32</p> <p>x</p> <p>82</p>	<p>1 307 3,000</p> <p>1 005 3,000</p> <p>1 022 3,000</p> <p>1 533 5,000</p> 	<p>Std.</p> <p>.50</p> <p>1.00</p> <p>4058611</p> <p>A=106</p> <p>L=212</p> <p>C=114</p> <p>H= 8</p> <p>(D 225 Water cooled)</p>	<p>7443203 6443205</p> <p>7443214 6443216</p> <p>7443225 6443220</p> <p>5443200</p>		
<p>D 227 Water Cooled 4 cyl. 3770 cc, 54.5 KW (74 HP)</p> <p>D 227 Water Cooled 6 cyl. 5654 cc, 82.5 KW (112 HP) Diesel</p> <p>D 327 Air Cooled 1885 cc, 27 KW (36.5 HP)</p> <p>D 327 Air Cooled 2827 cc, 40.5 KW (55 HP)</p> <p>D 327 Air Cooled 3700 cc, 54.5 KW (74 HP)</p> <p>D 327 Air Cooled 5654 cc, 82.5 KW (112 HP) Diesel</p>	<p>10179.1</p> <p>100</p> <p>2/3/4/6</p>  <p>10-3973</p> <p>1970-77</p>	<p>59,8</p> <p>-19,2</p> <p>x</p> <p>112,8</p>	<p>ALM</p>	<p>32</p> <p>x</p> <p>82</p>	<p>1 308' 3,000</p> <p>1 005 2,000</p> <p>1 022 2,000</p> <p>1 530 4,000</p>  	<p>Std.</p> <p>.50</p> <p>1.00</p> <p>4115414</p> <p>A=113</p> <p>L=213</p> <p>C=119</p> <p>H+F= 8+0.5</p> <p>(D 227 Water cooled)</p> <p>4118914</p> <p>A=110.95</p> <p>L=212</p> <p>C=0</p> <p>H= 0</p>	<p>7438200 6438202</p> <p>7438211 6438213</p> <p>7438222 6438224</p> <p>5438204</p> <p>5438285 Air Cooled Diesel</p>		

1	2	3	4	5	6		7	8		
			Type	$\varnothing \times L$						
1	2	3	4	5	6		7	8		
M W M										
<p>D 227 Water Cooled 4 cyl. 3770 cc, 54.5 KW (74 HP)</p> <p>D 227 Water Cooled 6 cyl. 5654 cc, 82.5 KW (112 HP) Diesel</p> <p>D 327 Air Cooled 1885 cc, 27 KW (36.5 HP)</p> <p>D 327 Air Cooled 2827 cc, 40.5 KW (55 HP)</p> <p>D 327 Air Cooled 3700 cc, 54.5 KW (74 HP)</p> <p>D 327 Air Cooled 5654 cc, 82.5 KW (112 HP) Diesel</p>	<p>10251.1</p> <p>100</p> <p>2/3/4/6</p> <p>10-3973</p> <p>1977 ...</p>	<p>60,4</p> <p>-19,3</p> <p>x</p> <p>113,4</p>	<p>ALM</p>	<p>35</p> <p>x</p> <p>82</p>	<p>1 308' 3,000</p> <p>1 005 2,000</p> <p>1 022 2,000</p> <p>1 530 4,000</p>		<p>Std.</p> <p>.50</p> <p>1.00</p> <p>4115414</p> <p>A=113</p> <p>L=213</p> <p>C=119</p> <p>H+F= 8+0.5</p> <p>(D 227 Water cooled)</p> <p>4118914</p> <p>A=110.95</p> <p>L=212</p> <p>C=0</p> <p>H= 0</p>	<p>7438200 6238201</p> <p>7438211 6238212</p> <p>7438222 6238223</p> <p>5238203</p> <p>5238284</p> <p>Air Cooled Diesel</p>		
<p>D 229 Normally Aspirated Diesel 1984 ...</p>	<p>10259.1</p> <p>102</p> <p>3/4/6</p> <p>10-3973</p>	<p>60,4</p> <p>-19,35</p> <p>x</p> <p>113,4</p>	<p>ALM</p>	<p>35</p> <p>x</p> <p>82</p>	<p>1 308' 3,000</p> <p>1 005 2,500</p> <p>1 530 4,000</p>		<p>Std.</p> <p>4115613</p> <p>A=113</p> <p>L=213.5</p> <p>C=119</p> <p>H+F= 8+1</p>	<p>7238302 6238503</p> <p>5238505</p>		


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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								MAN		
Compresor			1	100				D 2840 LF 20		158
Compresor			1	90				OM 501 /402 /403 /404 /407 /409 /421 /422 /423 /424 /442	09133.1	158
Compresor			1	100				D 2840 LF 20		158

M

			Type				
1	2	3	4	5	6	7	8

MAN

<p>Compressor 1975... OM 501 /402 /403 /404 /407 /409 /421 /422 /423 /424 /442</p>	<p>09133.1 90 1  09-9502</p>	<p>35 x 57,5</p>		<p>20 x 60</p>	<p>1 023 2,500 1 023 2,500 1 232 4,000</p>		<p>Std. .50 1.00</p>	<p>7267304 6357400 7267315 6357411 7267326 6357422</p>
<p>Compressor D 2840 LF 20</p>	<p>100 1</p>				<p>1 023 2,500 1 023 2,500 1 533 3,000</p>		<p>Std.</p>	<p>7393105</p>
<p>Compressor D 2840 LF 20</p>	<p>100 1</p>				<p>1 023 2,500 1 023 2,500 1 533 4,000</p>		<p>Std. .50 1.00</p>	<p>7392906 7392910 7392921</p>



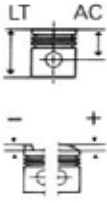
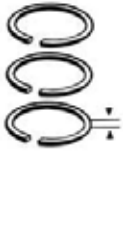

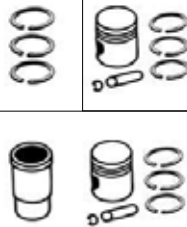





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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
MASSEY FERGUSON (See Perkins)										
3A.152	Perkins	17.4:1	3	91.49					09750.1	215
3A.152 D	Perkins	18.4:1	3	91.49	2500	33/35	45/48	MF 20, MF 40, MF 148, MF 135 /W, MF 124 C, MF 144 C, MF 150, MF 2135, MF 152 PL /MP, MF 2200, MF 2244, MF 2500, R 3200, R 5000	09179.3	213
4.212	Perkins	15:1	4	98.476	3470	44	60	MF 50 /50RA /165 /186, R 7000	90400.1	221
4.236	Perkins	16:1	4	98.476	3860	43.5/59	59/80	MF 1845, MF 180, MF 177, MF 175°, 168 /A /MP, MF 168, MF 99, MF 95, MF 87, MF 50 B, 240, 206, MF 575, MF 987, MF 470, MF 275, MF 2745, MF 265, MF255, MF 187	09820.4	219
4A.203	Perkins	17.4:1	4	91.49					09750.1	215
4A.203 D	Perkins	18.4:1	4	91.49	3300	39.5/41 /42.5	54/56/58	MF 30, MF 50, MF 65, MF 86, MF 155, MF 158 DL /MP, MF 164 C, MF 165, MF 2105, MF 300, MF 356, MF 3165, R 6000, DT 7000, MF 765	09179.3	213
6.354	Perkins	16:1	6	98.476	5800	71.5/87	97/118	MF 94, 520, 525, 507 /510, MF 1105, MF 500, MF 1100, MF 450, MF 1200, MF 95	09840.5	220
6.354.3, 6.354.4	Perkins	16:1	6	98.476	5800	92.3	125.6	530, Mährescher 24	90844.1	226
6A.305	Perkins	17.4:1	6	91.49	5000			35, 35X, 50, 150, 203, 205, MF 35, MF 65, 865, 356, MF 140, MF 140 Super, Super 92, MF 145	09750.1	215
A4-99, OHV	Perkins	20:1	4	76.2	1621	29.5	40	Tractor MF 31	70619.1	-

M

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								MAZDA (See also Ford, Peugeot)		
DV6 TED4	Peugeot	17.6:1	4	75	1560	80	109	3 1, 6 CDi 16V 06 /2004...	70510.1	234
NA		8.6:1	4	78	1586			616-1600, 808-1600, SAVANNA 808-818 1600, BONGO 1600 MULTI VAN, BA 2N 9V, CAPELLA 929-1600 SNA, CB 2NS - CB2NC, E1600 - VAN - PICK UP, GRANDFAMILIA - 1600 VAN, SN3A - SN4A - SN3AV, PROCEED 1600 - BNA 61, BNB 61, 616 - 1600 SNA	07804.1	161
R2			4	86	2200			2200 D, E 2200	80607.1	161
RF			4	86	1998			626 D	80607.1	161
RTE, RTF	Ford	21.5:1	4	82.5	1753	44	60	121, 04 /1996...	80220.1	108

1	2	3	4	5	6		7	8	
MAZDA									
			Type	Ø x L					
DV6 TED4 1560 cc, 17.6:1, 80 KW (109 HP) Turbocharged Diesel Intercooler 3 1,6 CDi 16V 06/2004...	70510.1 75 4							See Peugeot	
NA 1586 cc, 8.6:1, 616 - 1600 SNA, BA 2N 9V, BNB 61, BONGO 1600 MULTI VAN, CAPELLA 929-1600 SNA, CB 2NS - CB2NC, GRANDFAMILIA - 1600 VAN, PROCEED 1600 - BNA 61, SN3A - SN4A - SN3AV 1970...1978 616-1600, 808-1600, E1600 - VAN - PICK UP, SAVANNA 808-818 1600 1973...1978	07804.1† 78 4    07-9602	38.5 2.75 x 78.2		20 x 65	1 301' 1,500 1 023 2,000 1 231 4,000	Std. .25 .50 .75 1.00	7356005 6356000 7356016 6356011 7356020 6356022 7356031 6356033 7356042 6356044		
RTE, RTF 1753 cc, 21.5:1, 44 KW (60 HP) 121, 04/1996...	80220.1 82,5 4							See Ford	
R2 2200 cc, Turbocharged Diesel 1991... 2200 D, E 2200 RF 1998 cc, Turbocharged Diesel 1991... 626 D	80607.1 86 4   08-9901	47,2 -1,2 x 86,2	IN G ATM	30 x 68.5	1 847' 2,000 1 954 2,000 1 533 4,000	Std. .50 1.00	7369902 6369904 7369913 6369915 7369924 6369926		

† Hasta agotar existencias / Availability only from stock.

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								MERCEDES-BENZ (See also Volkswagen)		
Compresor			1	90				OM 401 /402 /403 /404 /407 /409 /421 /422 /423 /424 /442	09133.1	170
Compresor			1	100				OM 501 / 502 / 541 / 542, OM 402.971		175
Compresor			1	100				OM 501 LA, OM 402.971		175
M 104.900	Volkswagen	10:1	6	81.01	2792	128	174	Vito	08139.1	294
OM 314		17:1	4/6	97	3783	34,5/62,5	47/85	V 54, O 309, 408 /508 /608 /808 /809, V 66, MB-TRAC 65 /70 /700 /800, V 72, 403, U 800, V 900	09775.3	173
OM 314 A		16:1	4	97	3780	63	85	MB-TRAC Turbo 900	90706.1	175
OM 352		17:1	6	97	5675	66/95.5	90/130	HV 9109, O 309, O 321, 1613, U 80, U 70, O 302, MB-TRAC 300 /1100 /1300 /1500, U 900, U 1700, U 1500 T, U 1300, U 1100 L, U 1000, U 900, 1413, 810, 813, 1213, 1513, U 110, U 100, U 120, 613, 710, 911, 811, 1313, 913, 913, 1113, U 125, 406, 416 T, 425, O 322, OP 312, U 90	09775.3	173
OM 352 A		17:1	6	97	5675	110	150	1413	90705.1	174
OM 352 A		16/17:1	6	97	5675	92/110 /124/127	125/150 /168/173	From engine 353909 to engine 353914, 1017, 1217, 1417, 1617, VZ 150 /425, U 1000 L / U 1200 L, U 1300 L / U 1500 / U 1700 L /, MB-TRAC 300 /1100 /1300 /1500	90705.1	174
OM 352 A, OM 353 A		16/17:1	6	97	5675	92/110 /123.5	125/150 /168	1017, MB-TRAC 1300 /1500, 1217, 1417, 1617, U 1500, U 1200, U 1250, U 1300, U 1700, U 1000	90706.1	175
OM 362.906 /909 LA		16/17:1	6	97	5675	141	192	1419	90706.1	175
OM 601		22:1	4	87	1997	53	72	190 D, 200 D	80702.1 80702.2	165 166
OM 601.940/941 /942/943		22:1	4/5	89	2229	58/60	79/82	Vito 108, Transporter 208 /308 /408 /508, Sprinter	80901.1	169
OM 602.900/940 /942/946/947/991		22:1	4/5	89	2874	70/72	95/98	290GD, Transporter 210 /310 /410, Unimog 90 /110 /140	80901.1	169
OM 602.911 / .912		22:1	5	87	2497	62/66	84/90	250 D, 190 D 2.5	80702.1 80702.2	165 166

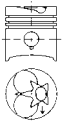






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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
OM 602.980 /982.985		19.5:1	5	89	2771	90/95	122/129	Sprinter 212D, 312D, 412D, E290 GD	80902.1	170
OM 603.912 / .913		22:1	6	87	2996	80	109	300 D	80702.2 80702.1	166 165
OM 611.960		18:1	4	88	2151	75/92	102/125	C 200 03 /1998... 02 /2001, C 220 12 /1997... 02 /2001	80819.1	169
OM 611.961		18:1	4	88	2151	75/105	102/143	E 200 06 /1999...2001, E 220 07 /1998...2001	80817.1	167
OM 611.962		18:1	4	88	2151	85	116	C 200 05 /2000..., C 200 05 /2000...	80817.1	167
OM 611.980		18:1	4	88	2151	60/90	82/122	V 200 02 /1999...07 /2003, V 220 06 /1999... 07 /2003, Vito 108, Vito 110, Vito 112 04 /1999...	80819.1	169
OM 611.980		18:1	4	88	2151	60/90	82/122	V 220 06 /1999...07 /2003, V 200 02 /1999...07 /2003	80817.1	167
OM 611.981, 987 Euro 3		18:1	4	88	2151	60/80	82/109	Sprinter 04 /2000...	80817.1	167
OM 612.961, 962			5	88	2686	125	170	E 270 06 /1999...03 /2002, C 270 11 /2000...2005, CLK 270 09 /2002...	80817.1	167
OM 612.963		19:1	5	88	2686	115/120	156/163	ML 270 11 /1999...2004, G 270 08 /2003...	80817.1	167
OM 612.965, 966, 981		18:1	5	88	2686	115	156	Sprinter 04 /2000..., G 270 08 /2003...	80817.1	167
OM 612.967		18:1	5	88	2686	125	170	CLK 270 09 /2002...	80817.1	167
OM 613.960		18:1	6	88	3222	145/150	197/204	S 320 06 /1999...	80819.1	169
OM 613.960		18:1	6	88	3222	145/150	197/204	S 320 06 /1999...	80817.1	167
OM 613.961		18:1	6	88	3222	150	204	E 320 06 /1999... 2005	80819.1	169
OM 613.961		18:1	6	88	3222	150	204	E 320 06 /1999... 2005	80817.1	167
OM 615.910 /911/912/914 / .916/917/941		21:1	4	87	2197	44/48	60/65	220 D, O 309 D /DC, L 406 DGA /DGC, L 206 D, L 306 D, U 421	80720.3	166
OM 615.940/963		21:1	4	87	1988	44	60	200 D, L 206 D, L 306 D, MB 100	80700.1	165
OM 616		21:1	4	90.9	2399	38/48/53	52/65/72	207 D, 240 D /Lang /TD /GD, 307 D, 407 D, 507 D, O 309 D, U 600 /L, U 6000, MB 130, MB 150, MB 140, MB 180	90090.1	165

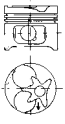

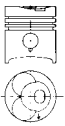
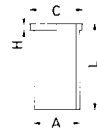
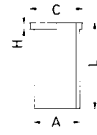
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
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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
OM 616.910 /.911/.912/.916 /.919		21:1	4	91	2404	36,5/48	50/65	240 D /Lang /TD, O 309 D, U 52, 421 T, L 207 D, L 307 D, L 407 D, U 600 /L	90010.2	172
OM 616.910 /.911/.912/.916 /.919		21:1	4	90.9	2404	38/44/48	52/60/65	Unimog 421, 600, 240 D /Lang /TD, L 207 D, L 307 D, L 407 D, L 309 D	90016.1	171
OM 617		21:1	5	90.9	2998	64.5/66	88/90	300 CD (USA), 300 D /Lang /TD /GD, 209 D, 309 D, 409 D	90090.1	171
OM 617.910 /.912		21:1	5	80	3005	52/54.5 /59	71/74/80	240 D 3.0, 300 D /Lang /TD, 300 CD (USA)	90010.2	172
OM 617.910 /.912		21:1	5	90.9	3005	66	90	300 D /Lang /TD /GD, 300 CD (USA)	90016.1	171
OM 646.951		18:1	4	88	2150	90	125	E 200 07 /2000...	80818.1	168
OM 646.961		18:1	4	88	2150	110	150	E 220 03 /2002...	80818.1	168
OM 646.962		18:1	4	88	2150	90	125	C 200 03 /2003...	80818.1	168
OM 646.963		18:1	4	88	2150	90/110	125/150	C 200, C220 07 /2003...	80818.1	168
OM 646.982		18:1	4	88	2148	80/110	109/150	Vito 115, Vito 111 10 /2003..., Viano 2004	80818.1	168
OM 646.983		18:1	4	88	2150	65	88	Vito 109 10 /2003...	80818.1	168
OM 647.961		18:1	5	88	2700	125	170	E 270 06 /1999...2005	80818.1	168
OM 647.981		18:1	5	88	2700	60/115	82/1560	Sprinter	80818.1	168
OM 648.960		18:1	6	88	3220	150	204	S 320 09 /2002...	80818.1	168
OM 648.961		18:1	6	88	3220	145/150	197/204	E 320 06 /1999... 2005, E 320 06 /1999... 2005	80818.1	168



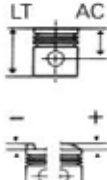

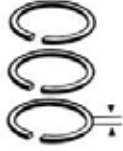



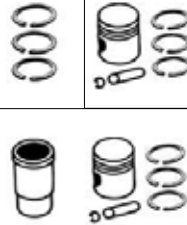


1	2	3	4	5	6	7	8
MERCEDES-BENZ							
M 104.900 2792 cc, 10:1, 128 KW (174 HP) 1997..... Vito	08139.1 81,01 6						See Volkswagen
OM 615.940/.963 1988 cc, 21:1, 44 KW (60 HP) Diesel Feb.1979... 200 D, L 206 D, L 306 D, MB 100	80700.1 87 4   08-8201	52,9 -1,2-9,06 x 91,4	IN ALM	26 x 72	1 301' 2,000 1 005' 2,000 1 530 4,000	Std. .50  4400233 A=90 L=158.4 C=92 H= 4.7 (Special Material "C")  4400281 A=90.1 L=158.4 C=92 H= 4.7 (Special Material "C")	7168906 6197203 7168910 6197225
OM 601 1997 cc, 22:1, 53 KW (72 HP) Diesel Jun.1984... 190 D, 200 D OM 602.911/ .912 2497 cc, 22:1, 62/66 KW (84/90 HP) Dec.1984... 190 D 2.5, 250 D OM 603.912 / .913 2996 cc, 22:1, 80 KW (109 HP) Dec.1984... 300 D	80702.1† 87 4/5/6   08-9003 Biela guiada por el pistón paso de biela 22,2 mm Connecting rod guided in the piston distance between bosses 22,2 mm Biele guidée dans le piston entre-bossage 22,2 mm	44.85 -1.05-1.25 -9.05 x 74.85	IN ALM	26 x 55	1 394' 2,500 1 045' 2,000 1 533 3,000	Std. .50 1.00  4419310 A=90 L=148.6 C=92.55 H= 4.7	7309002 7309013 7309024



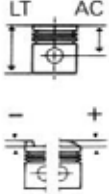

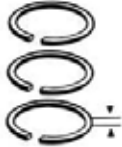




† Hasta agotar existencias / Availability only from stock.

1	2	3	4	5	6	7	8
MERCEDES-BENZ							
<p>OM 601 1997 cc, 22:1, 53 KW (72 HP) Diesel Jun.1984... 190 D, 200 D</p> <p>OM 602.911/ .912 2497 cc, 22:1, 62/66 KW (84/90 HP) Dec.1984... 190 D 2.5, 250 D</p> <p>OM 603.912 / .913 2996 cc, 22:1, 80 KW (109 HP) Dec.1984... 300 D</p>	<p>80702.2</p> <p>87</p> <p>4/5/6</p>  <p>08-9003</p>	<p>44.85</p> <p>-1.05-1.25</p> <p>-9.05</p> <p>x</p> <p>74.85</p>	<p>IN ALM</p>	<p>26</p> <p>x</p> <p>55</p>	<p>1 394' 2,000</p> <p>1 045' 2,000</p> <p>1 533 3,000</p> 	<p>Std.</p> <p>.50</p> <p>1.00</p> <p>4419310</p> <p>A=90</p> <p>L=148.6</p> <p>C=92.55</p> <p>H= 4.7</p>	<p>7309105 6309100</p> <p>7309116 6309111</p> <p>7309120 6309122</p>
<p>OM 615.910/.911/.912/.914/ .916 /.917/.941 2197 cc, 21:1, 44/48 KW (60/65 HP) Diesel 1973-1978 220 D, L 206 D, L 306 D, L 406 DGA /DGC, O 309 D/DC, U 421</p>	<p>80720.3</p> <p>87</p> <p>4</p>  <p>08-8302</p>	<p>48.25</p> <p>-1.1-3.6-6.35</p> <p>x</p> <p>89.65</p>	<p>IN ALM</p>	<p>26</p> <p>x</p> <p>72</p>	<p>1 301' 2,000</p> <p>1 005' 2,000</p> <p>1 530 4,000</p>  	<p>Std.</p> <p>.50</p> <p>4400233</p> <p>A=90</p> <p>L=158.4</p> <p>C=92</p> <p>H= 4.7</p> <p>(Special Material "C")</p> <p>4400281</p> <p>A=90.1</p> <p>L=158.4</p> <p>C=92</p> <p>H= 4.7</p> <p>(Special Material "C")</p>	<p>7168906 6168901</p> <p>7168910 6168912</p>









1	2	3	4	5	6	7	8			
MERCEDES-BENZ										
OM 611.961 2151 cc, 18:1, 75/105 KW (102 /143 HP) E 200 06/1999...2001, E 220 07 /1998...2001	80817.1 88 4/5/6	42.30 -13.8 x 68.30		30 x 70	1 643' 2,500 1 045' 2,000 1 533 3,000	Std. .50 .75 1.00	7394203 7394214 7394225 7394236	6394205 6394216 6394220 6394231		
OM 611.962 2151 cc, 18:1, 85 KW (116 HP) C 200 05/2000... C 200 05/2000...	 		G IN							
OM 611.980 2151 cc, 18:1, 60/90 KW (82/122 HP) V 220 06/1999...07/2003 V 200 02/1999...07/2003	8-0803 Biela trapecial									
OM 611.981, 987 Euro 3 2151 cc, 18:1, 60/80 KW (82/109 HP) Sprinter 04/2000...										
OM 612.961, 962 2686 cc, 125 KW (170 HP) E 270 06/1999...03/2002 C 270 11/2000...2005, CLK 270 09/2002...										
OM 612.963 2686 cc, 19:1, 115/120 KW (156 /163 HP) ML 270 11/1999...2004 G 270 08/2003...										
OM 612.965, 966, 981 2686 cc, 18:1, 115 KW (156 HP) Sprinter 04/2000... G 270 08/2003...										
OM 612.967 2686 cc, 18:1, 125 KW (170 HP) CLK 270 09/2002...										
OM 613.960 3222 cc, 18:1, 145/150 KW (197 /204 HP) S 320 06/1999...										
OM 613.961 3222 cc, 18:1, 150 KW (204 HP) Turbodiesel Biela trapecial E 320 06/1999... 2005										

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			Type	 $\varnothing \times L$				 		
1	2	3	4	5	6		7	8		
MERCEDES-BENZ										
OM 646.951 2150 cc, 18:1, 90 KW (125 HP) E 200 07/2000...	80818.1 88 4/5/6	42.30 -14.1 x 68.30		30 x 70	1 643' 2,500 1 045' 2,000 1 533 3,000		Std. .50 .75 1.00	7394203 6394301 7394214 6394312 7394225 6394323 7394236 6394334		
OM 646.961 2150 cc, 18:1, 110 KW (150 HP) Biela trapecial E 220 03/2002...			G IN							
OM 646.962 2150 cc, 18:1, 90 KW (125 HP) C 200 03/2003...	 8-0803									
OM 646.963 2150 cc, 18:1, 90/110 KW (125 /150 HP) C 200, C220 07/2003...										
OM 646.982 2148 cc, 18:1, 80/110 KW (109 /150 HP) Vito 115, Vito 111 10/2003... Viano 2004										
OM 646.983 2150 cc, 18:1, 65 KW (88 HP) Vito 109 10/2003...										
OM 647.961 2700 cc, 18:1, 125 KW (170 HP) E 270 06/1999...2005										
OM 647.981 2700 cc, 18:1, 60/115 KW (82 /1560 HP) Sprinter										
OM 648.960 3220 cc, 18:1, 150 KW (204 HP) S 320 09/2002...										
OM 648.961 3220 cc, 18:1, 145/150 KW (197 /204 HP) Turbodiesel Biela trapecial Injection E 320 06/1999... 2005										

			Type	 Ø x L					
1	2	3	4	5	6	7	7	8	8

MERCEDES-BENZ

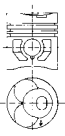
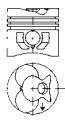
<p>OM 611.960 2151 cc, 18:1, 75/92 KW (102/125 HP) Turbo C 200 03/1998... 02/2001 C 220 12/1997... 02/2001</p>	<p>80819.1 88 4/6</p>   <p>8-0804</p>	<p>42.30 -13.3 x 68.30</p>	<p>G IN</p>	<p>30 x 70</p>	<p>1 643' 2,500 1 045' 2,000 1 533 3,000</p>	<p>Std. .50 .75 1.00</p>	<p>7394203 6394603 7394214 6394614 7394225 6394625 7394236 6394636</p>
<p>OM 611.980 2151 cc, 18:1, 60/90 KW (82/122 HP) Turbo V 200 02/1999...07/2003 V 220 06/1999... 07/2003, Vito 108, Vito 110, Vito 112 04/1999...</p>	  <p>8-0804</p>						
<p>OM 613.960 3222 cc, 18:1, 145/150 KW (197/204 HP) Turbo S 320 06/1999...</p>							
<p>OM 613.961 3222 cc, 18:1, 150 KW (204 HP) Turbo E 320 06/1999... 2005</p>							
<p>OM 601.940/941/942/943 2229 cc, 22:1, 58/60 KW (79/82 HP) Diesel 1995... Sprinter, Vito 108 Transporter 208 /308 /408 /508</p>	<p>80901.1 89 4/5</p>   <p>08-0003</p>	<p>44.65 -1.05-1.25 -9.45 x 74.65</p>	<p>IN ALM</p>	<p>26 x 62</p>	<p>1 344' 2,500 1 045' 2,000 1 533 3,000</p>	<p>Std. .50 .70</p>	<p>7376504 6376506 7376515 6376510 7376526 6376521</p>
<p>OM 602.900/940/942/946/947/991 2874 cc, 22:1, 70/72 KW (95/98 HP) Diesel 1995..... Transporter 210 /310 /410 290GD, Unimog 90 /110 /140</p>	  <p>08-0003</p>						

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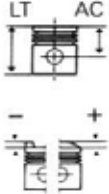

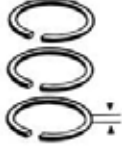


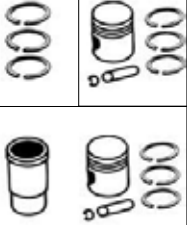
1	2	3	4	5	6	7	8

MERCEDES-BENZ

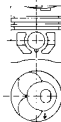




OM 602.980/.982.985 2771 cc, 19.5:1, 90/95 KW (122 /129 HP) Turbocharged-Intercooled Diesel 1995... E290 GD, Sprinter 212D, 312D, 412D	80902.1	44.75	IN G	28	1	344'	2,500	Std. .50	7381404	6381406
	89	-0.35-0.65		x	x	1	045'		2,000	7381415
Compresor 1975..... OM 401 /402 /403 /404 /407 /409 /421 /422 /423 /424 /442	5	-16.73		70	1	533	3,000	Std. 1.00		
	08-0105	x								
	09133.1	35		20	1	023	2,500	Std. 1.00	7267304	6357400
	90	x		x	1	023	2,500		7267315	6357411
	1	57,5		60	1	232	4,000		7267326	6357422
	09-9502									

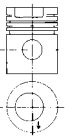




1	2	3	4	5	6		7	8	
MERCEDES-BENZ									
<p>OM 616.910/911/912/916/919 2404 cc, 21:1, 38/44/48 KW (52/60/65 HP) 4 cyl. Diesel Aug. 73-Jul. 78 240 D /Lang /TD</p> <p>L 207 D, L 307 D, L 309 D, L 407 D, Unimog 421, 600</p> <p>OM 617.910/912 3005 cc, 21:1, 66 KW (90 HP) 5 cyl. Diesel Sept. 78-Aug. 79 300 CD (USA), 300 D /Lang /TD /GD</p>	<p>90016.1</p> <p>90,9</p> <p>4/5</p>  <p>09-8203</p>	<p>48.35</p> <p>-1.13-4.25</p> <p>-6.35</p> <p>x</p> <p>81.85</p>	<p>Type</p> <p>IN ATM</p>	<p>26</p> <p>x</p> <p>74</p>	<p>1 640'</p> <p>1 005'</p> <p>1 530</p>	<p>3,000</p> <p>2,000</p> <p>4,000</p>	<p>Std.</p> <p>.60</p> <p>4410814</p> <p>A=94</p> <p>L=158.4</p> <p>C=96</p> <p>H= 4.7</p> <p>4410862</p> <p>A=94,1</p> <p>L=158.4</p> <p>C=96</p> <p>H= 4.7</p> <p>4704711</p> <p>A=94</p> <p>L=158.4</p> <p>C=96</p> <p>H= 4.7</p>	<p>7197304 6278506</p> <p>7197326 6278215</p>	
<p>OM 616 2399 cc, 21:1, 38/48/53 KW (52/65/72 HP) Diesel 4 cyl. Aug. 1978..... 207 D, 240 D /Lang /TD /GD, 307 D, 407 D, 507 D, MB 130, MB 140, MB 150, MB 180, O 309 D, U 600 /L, U 6000</p> <p>OM 617 2998 cc, 21:1, 64.5/66 KW (88/90 HP) 5 cyl. Sept. 1979... 209 D, 300 CD (USA), 300 D /Lang /TD /GD, 309 D, 409 D</p> <p>OM 617.913 08/1978... 08/1990</p>	<p>90090.1</p> <p>90,9</p> <p>4/5</p>  <p>09-8203</p>	<p>48,35</p> <p>-1,15-8,85</p> <p>x</p> <p>81,85</p>	<p>Type</p> <p>IN ATM</p>	<p>26</p> <p>x</p> <p>74</p>	<p>1 640'</p> <p>1 005'</p> <p>1 530</p>	<p>3,000</p> <p>2,000</p> <p>4,000</p>	<p>Std.</p> <p>.60</p> <p>.80</p> <p>4410814</p> <p>A=94</p> <p>L=158.4</p> <p>C=96</p> <p>H= 4.7</p> <p>4410862</p> <p>A=94,1</p> <p>L=158.4</p> <p>C=96</p> <p>H= 4.7</p> <p>4704711</p> <p>A=94</p> <p>L=158.4</p> <p>C=96</p> <p>H= 4.7</p>	<p>7197304 6197306</p> <p>7197326 6197321</p> <p>7197341 6197332</p>	

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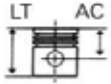


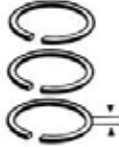







			Type	 Ø x L				
1	2	3	4	5	6	7	8	

MERCEDES-BENZ


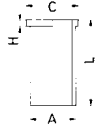


<p>OM 616.910/911/912/916/919 2404 cc, 21:1, 36,5/48 KW (50/65 HP) Diesel 4 cyl. 1973-Jul. 1978 240 D /Lang /TD, 421 T, L 207 D, L 307 D, L 407 D, O 309 D, U 52, U 600 /L</p>	<p>90010.2 91 4/5 </p>	<p>48.35 -1.13-4.25 -6.35 x 81.85</p>	<p>IN ATM</p>	<p>26 x 74</p>	<p>1 1 1</p>	<p>640' 005' 530</p>	<p>3,000 2,000 4,000</p>	<p>Std. .50</p>	<p>7197330 6278204 7197326 6278215</p>				
										<p>OM 617.910/912 3005 cc, 21:1, 52/54.5/59 KW (71/74 /80 HP) Diesel 5 cyl. Jul. 1974-Aug.78 240 D 3.0, 300 CD (USA), 300 D /Lang /TD</p>	<p>09-8203 </p>	<p></p>	<p>4410814 A=94 L=158.4 C=96 H= 4.7</p>
										<p></p>	<p>4410862 A=94,1 L=158.4 C=96 H= 4.7</p>		
<p></p>	<p>4704711 A=94 L=158.4 C=96 H= 4.7</p>												

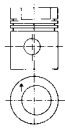




1	2	3	4	5	6	7	8													
MERCEDES-BENZ																				
<p>OM 314 3783 cc, 17:1, 34,5/62,5 KW (47 /85 HP) Diesel 4 cyl. 4 rings version 1974..... 403, 408 /508 /608 /808 /809, MB-TRAC 65 /70 /700 /800, O 309, U 800, V 54, V 66, V 72, V 900</p> <p>OM 352 5675 cc, 17:1, 66/95.5 KW (90/130 HP) Diesel 4 rings version 6 cyl. 1974... 1113, 1213, 1313, 1413, 1513, 1613, 406, 416 T, 425, 613, 710, 810, 811, 813, 911, 913, HV 9109, MB-TRAC 300 /1100 /1300 /1500, O 302, O 309, O 321, O 322, OP 312, U 100, U 1000, U 110, U 1100 L, U 120, U 125, U 1300, U 1500 T, U 1700, U 70, U 80, U 90, U 900</p>	<p>09775.3 97 4/6</p>  <p>09-8604</p>	<p>65.2 -20 x 115.7</p> <hr/> <p>64.8 -20 x 115.3</p> <hr/> <p>64.6 -20 x 115.1</p>	<p>IN VC</p>	<p>36 x 82.5</p>	<table border="1"> <tr><td>1</td><td>308'</td><td>3,000</td></tr> <tr><td>1</td><td>005</td><td>3,000</td></tr> <tr><td>1</td><td>005</td><td>3,000</td></tr> <tr><td>1</td><td>533</td><td>5,500</td></tr> </table>	1	308'	3,000	1	005	3,000	1	005	3,000	1	533	5,500	<p>Std.</p> <hr/> <p>.50</p> <hr/> <p>1.00</p>	<p>7254203 6254205</p> <hr/> <p>7254225 6254220</p> <hr/> <p>7254236 6254231</p>	<p>6254205</p> <hr/> <p>6254220</p> <hr/> <p>5254200</p>
1	308'	3,000																		
1	005	3,000																		
1	005	3,000																		
1	533	5,500																		
							<p>4016810 A=103 L=223 C=106 H= 4.5</p>													
							<p>4514322 A=101 L=223 C=104 H= 4.5</p>													
							<p>4514355 A=100.4 L=222 C=103.5 H= 5.2</p>													
							<p>4514311 A=103 L=223 C=106 H= 4.5</p>													

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		 	Type	 Ø x L	 	 	 	 
1	2	3	4	5	6	7	8	

MERCEDES-BENZ






<p>OM 352 A 5675 cc, 17:1, 110 KW (150 HP) Turbocharged Diesel 1964-1970 1413</p> <p>OM 352 A 5675 cc, 16/17:1, 92/110/124 /127 KW (125/150/168/173 HP) Diesel 1971-1982 1017, 1217, 1417, 1617, From engine 353909 to engine 353914, MB-TRAC 300 /1100 /1300 /1500, U 1000 L / U 1200 L, U 1300 L / U 1500 / U 1700 L /, VZ 150 /425</p>	90705.1	65,2 -2,2-20 x 105,2	H IN VC	36 x 82.5	1 690' 2,500 1 650 2,500 1 530 4,000	Std.	7264202 6264204
	6	64,8 -1,8-19,6 x 104,8		.50	7264213 6264215		
	09-8701	64,6 -1,6-19,4 x 104,6		1.00	7264224 6264226		
						 4016810 A=103 L=223 C=106 H= 4.5	5264206
						 4514344 A=101 L=222 C=104 H= 5.2	
						 4514355 A=100.4 L=222 C=103.5 H= 5.2	
						 4514311 A=103 L=223 C=106 H= 4.5	

1	2	3	4	5	6		7	8	
MERCEDES-BENZ									
<p>OM 314 A 3780 cc, 16:1, 63 KW (85 HP) Turbocharged Diesel MB-TRAC Turbo 900</p> <p>OM 352 A, OM 353 A 5675 cc, 16/17:1, 92/110 /123.5 KW (125/150/168 HP) Turbocharged Diesel 1017, 1217, 1417, 1617, MB-TRAC 1300 /1500, U 1200, U 1250, U 1300, U 1700 U 1000, U 1500</p> <p>OM 362.906/909 LA 5675 cc, 16/17:1, 141 KW (192 HP) Turbocharged-Intercooled 1982-1986 1419</p>	<p>90706.1</p> <p>97</p> <p>4/6</p>  <p>09-8701</p>	<p>65,2</p> <p>-21,5</p> <p>x</p> <p>105,2</p> <hr/> <p>64,9</p> <p>-21,2</p> <p>x</p> <p>104,9</p> <hr/> <p>64,6</p> <p>-20,9</p> <p>x</p> <p>104,6</p>	<p>H</p> <p>IN</p> <p>VC</p>	<p>36</p> <p>x</p> <p>82.5</p>	<p>1 690' 2,500</p> <p>1 650 2,500</p> <p>1 530 4,000</p>	<p>Std.</p> <p>.50</p> <p>1.00</p>  <p>4016810 A=103 L=223 C=106 H= 4.5</p>  <p>4514344 A=101 L=222 C=104 H= 5.2</p>  <p>4514355 A=100.4 L=222 C=103.5 H= 5.2</p>  <p>4514311 A=103 L=223 C=106 H= 4.5</p>	<p>7264202 6264300</p> <p>7264213 6264311</p> <p>7264224 6264322</p> <p>5264302</p>		
<p>Compresor OM 402.971 OM 501 / 502 / 541 / 542</p>	<p>100</p> <p>1</p>				<p>1 023 2,500</p> <p>1 023 2,500</p> <p>1 533 3,000</p>	<p>Std.</p>	<p>7393105</p>		
<p>Compresor OM 501 LA, OM 402.971</p>	<p>100</p> <p>1</p>				<p>1 023 2,500</p> <p>1 023 2,500</p> <p>1 533 4,000</p>	<p>Std.</p> <p>.50</p> <p>1.00</p>	<p>7392906</p> <p>7392910</p> <p>7392921</p>		

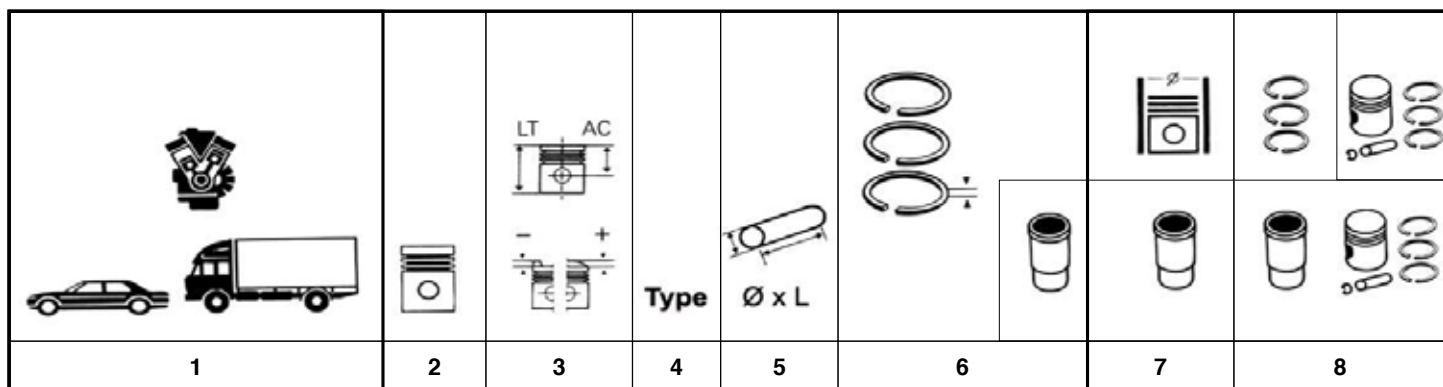
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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
MITSUBISHI										
4D55T		21:1	4	91.1	2346	62	84	Galant A167, Canter FB213 /433, Pajero L043, Pajero L048, L300 Type L038 /068	90101.1	177
4D55TDi, 4D56TDi		21:1	4	91.1	2477	73	99	Montero	90102.1 90103.1	177 178
4D56T		21:1	4	91.1	2476	62	84	Pajero L144 /149, L300 Type P25, Pajero L044 /49, L300 Type L039, P05 /15	90101.1	177
4D56TI			4	91.1	2477			V24-V44, Pajero 2.5 TDI, Montero 2.5 TDI	90108.1 90109.1	178 178

1	2	3	4	5	6		7	8	
MITSUBISHI									
4D55T 2346 cc, 21:1, 62 KW (84 HP) Turbocharged Diesel Galant A167 1981 ... 1984 L300 Type L038/068 1981 ... 1986 Canter FB213 /433 1983 ... Pajero L043 1983 ... 1986 Pajero L048 1984 ... 1986	90101.1 91,1 4  09-9703	48.7 -2.8-3 x 88.7	IN ATM	29 x 75	1 847' 1 346 1 530	2,560 2,000 4,000	Std. .50 1.00  4422316 A=94.175 L=165 C=0 H= 0	7360404 7360415 7360426	6360406 6360410 6360421
4D56T 2476 cc, 21:1, 62 KW (84 HP) Turbocharged Diesel Pajero L044 /49, Pajero L144 /149 1986 ... L300 Type L039, P05/15 1986 ... 1988 L300 Type P25 1987 ...	90102.1 91,1 4   09-9704 Cilindros 2/ 4 Cylinder	48.7 -2.8-3 x 88.7	G IN ATM	29 x 75	1 847' 1 346 1 530	2,560 2,000 4,000	Std. .50 1.00  4422316 A=94.175 L=165 C=0 H= 0	7360404 7360415 7360426	6361106 6361110 6361121

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MITSUBISHI

4D55TDi, 4D56TDi 2477 cc, 21:1, 73 KW (99 HP) Turbocharged Diesel Intercooler Montero	90103.1	48.7	 09-9704 Cilindros 1/ 3 Cylinder	G IN ATM	29	1	847'	2,560	Std.	7360404	6364702
	91,1 4	-2.8-3 x 88.7			x 75	x 75	1	346	2,000	.50	7360415
									4422316 A=94.175 L=165 C=0 H= 0	7360426	6364724

4D56TI 2477 cc, Turbocharged Diesel May 1994... V24-V44 Montero 2.5 TDI, Pajero 2.5 TDI	90108.1	48.7	 09-9704 Cilindros 2/ 4 Cylinder	IN ATM G	29	1	847'	2,560	Std.	7360404	6379903
	91,1 4	-1.4 x 88.7			x 75	x 75	1	346	2,000	.50	7360415
									1.00	7360426	6379925

	90109.1	48.7	 09-9704 Cilindros 1/ 3 Cylinder	IN ATM G	29	1	847'	2,560	Std.	7360404	6380205
	91,1 4	-1.4 x 88.7			x 75	x 75	1	346	2,000	.50	7360415
									1.00	7360426	6380220

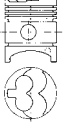
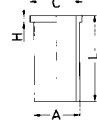
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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								NISSAN-MOTOR IBERICA (See also Peugeot, Renault)		
A 4.28		21:1	4	94	2820	58	79	Patrol 4WD, Trade 2.8 KB /KE /KF	90403.1	183
A 4.28 II		22:1	4	94	2820	62	84	Patrol 4WD, L-45.08 F, Trade 2.8	90412.1	185
A 4.28 T		20.5:1	4	94	2820	72	98	Patrol 4WD	90404.1	184
A 4.28.1		21:1	4	94	2820	59	80	Patrol 4WD, Trade 2.8 KE /KF	90410.1	184
B 4.40 NA, Euro			4	100				R4	10003.1	187
B 4.40 TI			4/6	100	3985	100.5	137	L35, L45, L50, L60, L75, L80, Atleon 140.70 /.75 /.80	10285.1	188
B 4.40		17:1	4/6	100	3990	66	90	L-80.09 DC, L-60.09, L-50.09 F	10241.1	187
B 6.60		17:1	4/6	100	5985	99.5	135	M-110.14, M-110.14 DC, M-125.14, M-125.14 BC	10241.1	187
B 6.60 TI			4/6	100	5977	150.5	205	M90, M110, M115, M130, M140, M150	10285.1	188
BD 30			4	96				Trade 3.0	90605.1	186
BD 30 Ti		17.2:1	4	96	2956	79.5	108	Atleon 110.35 /110.45 /110.56, Coabstar E TL-110.35 /.45, Eco-T.100.35 /.35H /.56, Trade 100	90604.1	186
BD 30 Ti			4	96					90606.1	186
F9Q, 800	Renault	18.3:1	4	80	1870	88	120	Primera 1.9 dCi, 01 /2003...	80020.1	258
G9T, 722	Renault	18:1	4	87	2188	66	90	Interstar 2.2 dCi 07 /2002...	80706.1	261
G9U 720	Renault	21:1	4	89	2463	84		Interstar 2.4 dCi	80903.1	262
LD 20 II		21.3:1	4/6	85	1952	48	65	Trade 2.0 PF, Vanette 2.0 /Coach /Practic	80523.1	182
LD 20, LD 20 E		22:1	4	85	1952	44	60	Bluebird, Stanza, Laurel, Trade 2.0, Vanette	80519.1	182
LD 23		22.25:1	4	87	2283	53	72	Coabstar E TL-75.28, Serena, Trade 75, Vanette Cargo	80701.1	183
RD 28			4/6	85	2826	70	95	Patrol 2.8, Pick-up, Laurel, Gloria	80523.1	182
RD 28 T		21.2:1	6	85	2826	84.5	115	Patrol TD "TOP LINE"	80530.1	182
SD 20		20:1	4/6	83	1991	44	60	Cedric 200, Laurel 200	80301.2	181
SD 22		20.8/22:1	4/6	83	2164	48/48.5 /51.4	65/66/70	Datsun Cedric 220 CX	80301.2	181

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
SD 30	Peugeot	20:1	4/6	83	2987			Patrol	80301.2	181
SD 33		22:1	4/6	83	3246	70	95	340 C, Patrol	80301.2	181
TD 27 T		21.9:1	4	96	2664	73	100	Terrano II, Mistral	90600.1	185
TD 27 TI		21.9:1	4	96	2664	90	123	Terrano II	90601.1	185
TUD5		23:1	4	77	1527	42	57	Micra	70700.1	235
YD25 DDTI				4	89	2488			Pick-up, Navara	80904.1

1	2	3	4	5	6	7	8
NISSAN-MOTOR IBERICA							
TUD5 1527 cc, 23:1, 42 KW (57 HP) Diesel 1998... Micra	70700.1 77 4						See Peugeot
F9Q, 800 1870 cc, 18.3:1, 88 KW (120 HP) Primera 1.9 dCi, 01/2003...	80020.1 80 4						See Renault
SD 20 1991 cc, 20:1, 44 KW (60 HP) Diesel 1966... Cedric 200, Laurel 200	80301.2 83 4/6	48 -0,65-1,8 x 96		26 x 71	1 301' 2,500 1 005 2,000 1 005 2,000 1 533 4,500 1 032 4,500	Std.	7252604 6252606
SD 22 2164 cc, 20.8/22:1, 48/48.5 /51.4 KW (65/66/70 HP) Diesel 1966-1982 Datsun Cedric 220 CX	 08-5976					4057911 A=87 L=176 C=93 H= 5	5252601
SD 30 2987 cc, 20:1, Diesel 1973-1982 Patrol							
SD 33 3246 cc, 22:1, 70 KW (95 HP) Diesel 1973-1983 340 C, Patrol							

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1	2	3	4	5	6		7	8	
NISSAN-MOTOR IBERICA									
LD 20, LD 20 E 1952 cc, 22:1, 44 KW (60 HP) Diesel Bluebird, Laurel, Stanza, Trade 2.0, Vanette	80519.1 85 4	46.4 -1.95-3.38 x 86.45	IN	25 x 66.7	1 354' 2,000 1 954 2,000 1 533 4,000	Std. .50 1.00	4421314 A=90 L=150 C=92 H= 4.5	7239201 7239212 7239223	6239203 6239214 6239225
LD 20 II 1952 cc, 21.3:1, 48 KW (65 HP) Diesel Trade 2.0 PF, Vanette 2.0 /Coach /Practic RD 28 2826 cc, 70 KW (95 HP) Diesel Gloria, Laurel, Patrol 2.8, Pick-up	80523.1 85 4/6	46,48 -1,33-2,66 x 78	IN ALM	25 x 66.7	1 354' 2,000 1 954 2,000 1 533 4,000	Std. .50 1.00	4421314 A=90 L=150 C=92 H= 4.5	7239201 7239212 7239223	6276200 6276211 6276222
RD 28 T 2826 cc, 21.2:1, 84.5 KW (115 HP) Turbocharged Diesel Patrol TD "TOP LINE"	80530.1 85 6	46,9 -1,4 x 78,3	IN G ATM	27 x 65.5	1 354' 2,000 1 954 2,000 1 533 4,000	Std. .50 1.00		7239201 7239212 7239223	6357105 6357116 6357120

1	2	3	4	5	6		7	8	
NISSAN-MOTOR IBERICA									
LD 23 2283 cc, 22.25:1, 53 KW (72 HP) Diesel Coabstar E TL-75.28, Serena, Trade 75, Vanette Cargo	80701.1 87 4	47,23 -1,15-2,28 x 76,23	IN ALM	26 x 64	1 354' 2,000 1 627 2,000 1 530 3,000	Std. .60		7343604 7343615	6348506 6348510
G9T, 722 2188 cc, 18:1, 66 KW (90 HP) Interstar 2.2 dCi 07/2002...	80706.1 87 4							See Renault	
G9U 720 2463 cc, 21:1, 84 KW Jul. 2002... Interstar 2.4 dCi	80903.1 89 4							See Renault	
A 4.28 2820 cc, 21:1, 58 KW (79 HP) Normally Aspirated Diesel Patrol 4WD, Trade 2.8 KB /KE /KF	90403.1 94 4	60,6 -2,8 x 105,6	IN ALM	34 x 75	1 351' 2,500 1 045 2,500 1 530 4,000	Std. .50 1.00	4412310 A=97,65 L=191.5 C=103.5 H+F= 7.02+1.1	7239304 7239315 7239326	6239306 6239310 6239321
YD 25 DDTI 2488 cc Pick-up- Navara	80904.1 89 4	48,85 - 18 x 79,7	IN G	28 x 59,5	1 399' 2,000 1 351 2,000 1 530 3,000	Std. .50		7396303 7396314	6396305 6396316

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			Type					
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NISSAN-MOTOR IBERICA

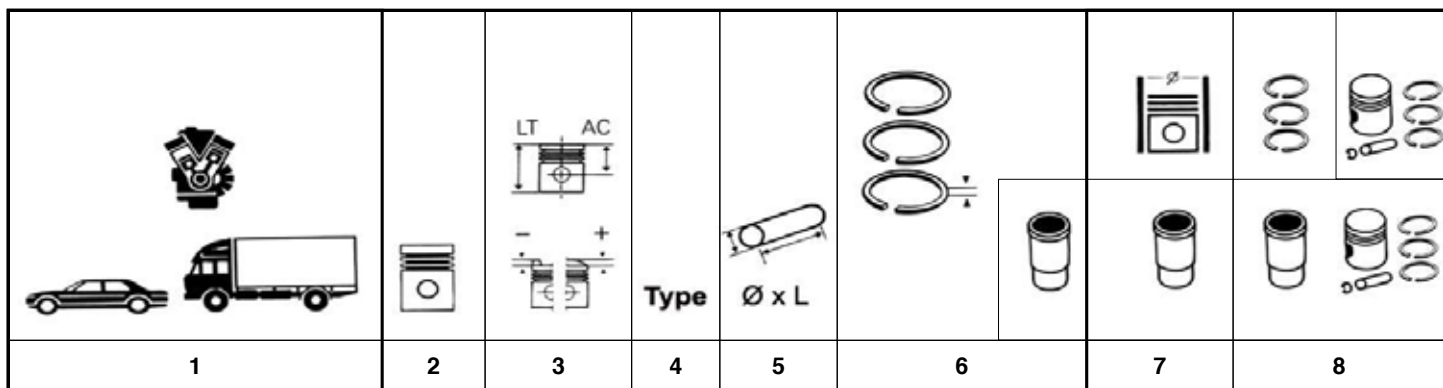
A 4.28 T 2820 cc, 20.5:1, 72 KW (98 HP) Turbocharged Diesel Patrol 4WD	90404.1	60,645	IN ALM A	34	1	659'	3,000	Std.	7239400	6239402
	94	-2,8		x	x	1	095	2,500	.50	7239411
	4	105,645		75	1	530	4,000	1.00	7239422	6239424
								 4412310 A=97,65 L=191.5 C=103.5 H+F= 7.02+1.1		
								 4704814 A=97,65 L=191.5 C=103.5 H+F= 7.02+1.1		
A 4.28.1 2820 cc, 21:1, 59 KW (80 HP) Normally Aspirated Diesel Patrol 4WD, Trade 2.8 KE /KF	90410.1	60,6	IN ALM	34	1	351'	2,500	Std.	7239304	6276502
	94	-1,35		x	x	1	045	2,500	.50	7239315
	4	105,6		69	1	530	4,000	1.00	7239326	6276524
								 4412310 A=97,65 L=191.5 C=103.5 H+F= 7.02+1.1		
								 4704814 A=97,65 L=191.5 C=103.5 H+F= 7.02+1.1		

1	2	3	4	5	6		7	8	
NISSAN-MOTOR IBERICA									
A 4.28 II 2820 cc, 22:1, 62 KW (84 HP) Normally Aspirated Diesel L-45.08 F, Patrol 4WD, Trade 2.8	90412.1 94 4	50.04 -1.35-2.7 x 81.24	IN ALM A	32 x 64	1 351' 3,000 1 045 2,500 1 530 3,000	Std. .50 1.00	4412310 A=97,65 L=191.5 C=103.5 H+F= 7.02+1.1	7296800 7296811 7296822	6301702 6301713 6301724
TD 27 T 2664 cc, 21.9:1, 73 KW (100 HP) Turbocharged Diesel Mistral, Terrano II	90600.1 96 4	50,45 -1,4 x 87,2	IN G ATM A	30 x 80	1 347' 2,586 1 954 2,000 1 530 3,000	Std.	4420511 A=99 L=160 C=105 H= 5	7331704	6338404
TD 27 TI 2664 cc, 21.9:1, 90 KW (123 HP) Turbocharged Diesel Intercooler Terrano II	90601.1 96 4	50,45 -1,3 x 74	A G IN ATM	30 x 80	1 647' 2,551 1 995 2,000 1 530 3,000	Std.	7358901	6368600	

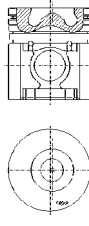
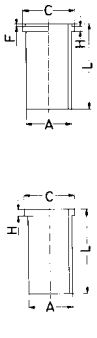
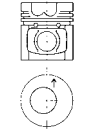
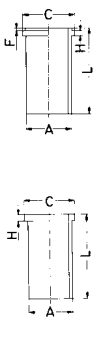
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			Type					
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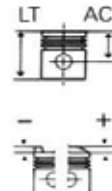

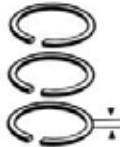




NISSAN-MOTOR IBERICA									
BD 30 Ti 2956 cc, 17.2:1, 79.5 KW (108 HP) Turbocharged Diesel Intercooler Atleon 110.35 /110.45 /110.56, Coabstar E TL-110.35 /45, Eco-T.100.35 /35H /56, Trade 100	90604.1 96 4	53.1 -0.2-0.5-21.3 x 89.5	IN G ATM	30 x 80	1 1 1	647' 954 530	2,551 2,000 3,000	Std. 4421911 A=99 L=172.5 C=105 H= 5	7374006 6374001
BD 30 Diesel Trade 3.0	90605.1 96 4	53,1 -20 x 89,5	G ATM	30 x 80	1 1 1	647' 954 530	2,551 2,000 3,000	Std. 4421911 A=99 L=172.5 C=105 H= 5 4421966 A=99,35 L=172.5 C=105 H= 5	7374006 6374104
BD 30 Ti Turbocharged Diesel Intercooler 2001...	90606.1 96 4	53.1 -0.2-0.5-20.4 x 89.50	IN ATM	30 x 80	1 1 1	647' 954 530	2,551 2,000 3,000	Std. 4421911 A=99 L=172.5 C=105 H= 5	7374006 6389401





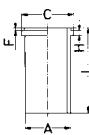
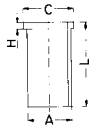
NISSAN-MOTOR IBERICA

<p>B 4.40 NA, Euro 1 Diesel R4</p>	<p>10003.1 100 4</p>  <p>10-0601</p>	<p>70.27 -22.4 x 109.97</p>	<p align="center">IN ALM</p>	<p>34.925 x 76</p>	<p>1 649' 3,000 1 005 2,500 1 530 4,000</p>		<p>Std. 4412516 A=104,254 L=227.4 C=110 H+F= 7.52+1.1 4422611 A=104,279 L=226.3 C=107.44 H= 3.86</p>	<p>7353603 6389202</p>
<p>B 4.40 3990 cc, 17:1, 66 KW (90 HP) Diesel Inyección Directa L-50.09 F, L-60.09, L-80.09 DC</p> <p>B 6.60 5985 cc, 17:1, 99.5 KW (135 HP) M-110.14, M-110.14 DC, M-125.14, M-125.14 BC</p>	<p>10241.1 100 4/6</p>  <p>10-8501</p>	<p>70,25 -28 x 110,25</p>	<p align="center">IN ALM</p>	<p>34.925 x 76</p>	<p>1 354' 2,500 1 045 2,500 1 530 4,747</p>		<p>Std. 4412516 A=104,254 L=227.4 C=110 H+F= 7.52+1.1 4422611 A=104,279 L=226.3 C=107.44 H= 3.86</p>	<p>7290603 6290605</p>

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			Type						
1	2	3	4	5	6	7	8	8	8

NISSAN-MOTOR IBERICA



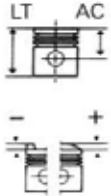

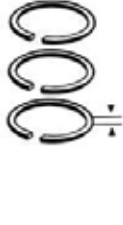


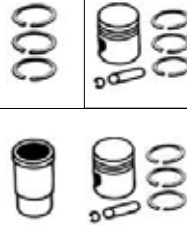




<p>B 4.40 TI 3985 cc, 100.5 KW (137 HP) Diesel Turbo intercooling Atleon 140.70 I.75 I.80, L35, L45, L50, L60, L75, L80</p> <p>B 6.60 TI 5977 cc, 150.5 KW (205 HP) Diesel Turbo intercooling M110, M115, M130, M140, M150, M90</p>	10285.1 100 4/6   10-9501	70,27 -21,2 x 109,97	IN ALM	38.1 x 78	1 649' 3,000 1 005 2,500 1 530 4,000	 	Std. 4412516 A=104,254 L=227.4 C=110 H+F= 7.52+1.1	7353603 6353605	6353605
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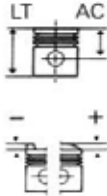

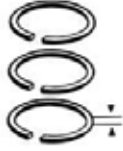

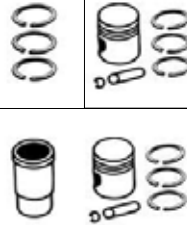
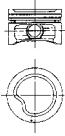


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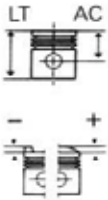

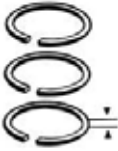



Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								OPEL (See also Isuzu, Renault, Suzuki)		
1.6 SE		10:1	4	79	1598	74	100	Astra, Corsa GSI	07937.1	192
1.6 SV		10:1	4	82	1598	60	82	Ascona, Kadett, Vectra	07937.1	192
1.7 L		23:1	4	82.5	1692	42	57	Astra, Kadett, Vectra	80259.1	194
2.0 NE, C 2.0 NZ		9.2:1	4	86	1998	84.5	115	Vectra, Kadett GSI, Frontera, Ascona i, Omega i, Calibra i, Astra	08604.1	196
2.0 SE		10:1	4	86	1998	90/95	122/129	Calibra i, Ascona i, Omega i, Kadett GSI	08603.1	196
4EC1	Isuzu	23:1	4	76	1488	37	50	Corsa D	70604.1	121
4EC1T	Isuzu	22.5:1	4	76	1488	49	67	Corsa TD	70605.1	121
4EE1	Isuzu		4	79	1686			Corsa	70904.1	122
4EE2			4	79		55	75		70905.1	193
4EE2TC			4	79		74	100		70907.1	194
4EE2TC -16v			4	79					70906.1	193
4FD1	Isuzu	21.5:1	4	88	2238	45	61	MIDI 2.2 L	80816.1	122
C 1.4 NHZ		9.4:1	4	77.6	1396	55	75	Vectra	07776.1	191
C 1.4 NZ		9.4:1	4	77.6	1396	44	60	Kadett, Corsa, Combo, Astra	07776.1	191
C 1.4 SE		9.8:1	4	77.6	1396	60	82	Corsa, Combo, Astra	07765.1	191
C 1.4 XE		10.5:1	4	77.6	1389	66	90	Corsa, Tigra	07782.1	192
F10A	Suzuki	8.8:1	4	65.5	970	33	45	Rascal	06167.1	277
G1 1.7 DI TD - DOHC			4	79		55	75		70905.1	193
G9T, 720	Renault	18:1	4	87	2188	66	90	Movano DTI 09 /2000...	80706.1	261
G9U 720	Renault	21:1	4	89	2463	84		Movano 2.5 DTI	80903.1	262
G9U 730	Renault	21:1	4	89	2463	84		Vivaro 2.5 DTI	80903.1	262
X 1.7 DTL		22:1	4	82.5	1700	50	68	Astra	80259.1	194
X 16 XEL 16 V		10.5:1	4	79	1598	74/78	101/106	Astra, Corsa, Tigra, Vectra	07907.1	192










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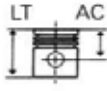


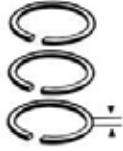











Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page	
						Kw	HP				
X 20 DTH	Isuzu	19.5:1	4	84	1998	74	100	Omega, Vectra	80447.1	195	
X 20 DTL		18.5:1	4	84	1998	60	82	Vectra, Omega, Astra	80446.1	195	
X 22 DTH		19.5:1	4	84	2172	85	116	Frontera, Omega, Zafira	80448.1	195	
X 22 DTH		19.5:1	4	84	2172	85	116	Sintra	80449.1	196	
X 25 TD		22:1	6	80	2497	96	130	Omega TD	80452.1	194	
X17DT (TC4EE1)		22:1	4	79	1686	60.5	82	Astra, Vectra 1.7 TD /GL /GLS /Century /Riviera /CD /CDX	70901.1	121	
Y 1.7 DT		18.4:1	4	79	1686	55	75	Astra (1999), Combo (2002...06 /2004), Corsa (2001), Zafira (2001), Meriva (2003...06 /2005)	70905.1	193	
Y 1.7 DTL		18.4:1	4	79	1686	55	75	Astra (1999), Combo (2002...06 /2004), Corsa (2001)	70905.1	193	
Z 17 DTH - 1.7 CDTI TD - DOHC				4	79		74	100	Astra H 16v (2004...), Corsa C 16 v (2003...), Combo (2003...), Meriva (2003...)	70907.1	194
Z 17 DTL - 1.7 CDTI TD - DOHC				4	79		59	80	Astra (2003-2004)	70906.1	151







1	2	3	4	5	6		7	8	
			Type	 Ø x L			 		
1	2	3	4	5	6		7	8	
OPEL									
4EE1 1686 cc, Corsa	70904.1 79 4							See Isuzu	
4EE2 55 KW (75 HP) G1 1.7 DI TD - DOHC 55 KW (75 HP) Y 1.7 DT 1686 cc, 18.4:1, 55 KW (75 HP) Turbodiesel Astra (1999), Combo (2002...06/2004) Corsa (2001), Meriva (2003...06/2005), Zafira (2001) Y 1.7 DTL 1686 cc, 18.4:1, 55 KW (75 HP) Turbodiesel Astra (1999) Combo (2002...06/2004), Corsa (2001)	70905.1 79 4   07-0703	39.75 -14 x 73.95	IN	27 x 64	1 600' 2,000 1 005' 1,500 1 533 3,000	Std. .50	7391403 6391405 7391414 6391416		
4EE2TC -16v Turbodiesel Z 17 DTL - 1.7 CDTI TD - DOHC 59 KW (80 HP) Turbodiesel Astra (2003-2004)	70906.1 79 4   07-0703	39.75 -14.10 x 73.95	IN	27 x 64	1 600' 2,000 1 005' 1,500 1 533 3,000	Std. .50	7391403 6391501 7391414 6391512		







			Type	 $\varnothing \times L$					
1	2	3	4	5	6		7	8	
OPEL									
F10A 970 cc, 8.8:1, 33 KW (45 HP) Rascal 1986 ... 1990	06167.1 65,5 4							See Suzuki	
4EC1 1488 cc, 23:1, 37 KW (50 HP) Diesel 1988... Corsa D	70604.1 76 4							See Isuzu	
4EC1T 1488 cc, 22.5:1, 49 KW (67 HP) Turbodiesel 1988... Corsa TD	70605.1 76 4							See Isuzu	
C 1.4 SE 1396 cc, 9.8:1, 60 KW (82 HP) Catalizador Combo 07/94 ... Corsa 1991 ... Astra 1992 ...	07765.1 77,6 4   07-9603	32,05 -2.6 x 52.5		18 x 55 F	1 301' 1,500 1 005 1,500 1 232 3,000	Std. .50	7350206 6371400 7350210 6371411		
C 1.4 NHZ 1396 cc, 9.4:1, 55 KW (75 HP) Vectra C 1.4 NZ 1396 cc, 9.4:1, 44 KW (60 HP) Catalizador Inyección Combo 08/93 ... 1/96 Corsa, Kadett 1988 ... Astra 1991 ...	07776.1 77,6 4  07-9603	32,05 -3,4 x 52,5		18 x 55 F	1 301' 1,500 1 005 1,500 1 232 3,000	Std. .50	7350206 6350201 7350210 6350212		



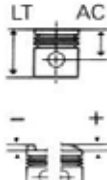

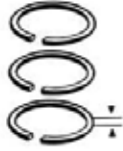


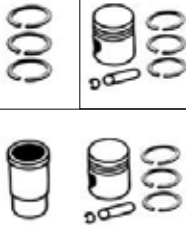
			Type	 Ø x L				
1	2	3	4	5	6	7	8	

OPEL										
C 1.4 XE 1389 cc, 10.5:1, 66 KW (90 HP) Inyección 16 V Catalizador 1993... Corsa, Tigra	07782.1	32.05	VC	18	1	301'	1,500	Std.	7350206	6372203
	77,6	+1								
	4	53.5		F						
		31.75						.50	7350210	6372214
		+1								
		x								
	07-9603	53.5								
X 16 XEL 16 V 1598 cc, 10.5:1, 74/78 KW (101 /106 HP) Catalizador 1994... Astra, Corsa, Tigra, Vectra	07907.1	28	ATM VC	18	1	394'	1,200	Std.	7344702	6371805
	79	-0.8								
	4	48		F						
		27,7						.50	7344713	6371816
		-0,8						1.00	7344724	6371820
		x								
	07-9404	48								
1.6 SE 1598 cc, 10:1, 74 KW (100 HP) Inyección Catalizador Sep. 87... Astra, Corsa GSI	07937.1	28.4	ATM VC	18	1	394'	1,200	Std.	7344702	6344704
	79	+0.4-1.6								
	4	48.4		F						
		28.1						.50	7344713	6344715
		+0.4-1.6						1.00	7344724	6344726
		x								
	07-9404	48.1								
X17DT (TC4EE1) 1686 cc, 22:1, 60.5 KW (82 HP) Turbocharged Diesel 02/92... Astra, Vectra 1.7 TD /GL /GLS /Century /Riviera /CD /CDX	70901.1								See Isuzu	
	79									
	4									

		 	Type	 Ø x L				 	 	
1	2	3	4	5	6		7	8		
OPEL										
4EE2TC 74 KW (100 HP) Turbodiesel Z 17 DTH - 1.7 CDTI TD - DOHC 74 KW (100 HP) Astra H 16v (2004...), Combo (2003...) Corsa C 16 v (2003...), Meriva (2003...)	70907.1 79 4   07-0704	39.75 -14.10 x 64.75	G IN	27 x 64	1 600' 2,000 1 005' 1,500 1 533 3,000	Std. .50		7391403 6392304 7391414 6392315		
X 25 TD 2497 cc, 22:1, 96 KW (130 HP) Diesel Turbo Intercooler 1993... Omega TD	80452.1 80 6   08-0202	39.45 -2.5 x 65.95	IN G	27 x 63	1 398' 3,000 1 095 1,750 1 533 3,000	Std. .50 1.00		7382605 6382600 7382616 6382611 7382620 6382622		
1.7 L 1692 cc, 23:1, 42 KW (57 HP) Diesel 1988... Astra, Kadett, Vectra X 1.7 DTL 1700 cc, 22:1, 50 KW (68 HP) Turbo Intercooler 1995... Astra	80259.1 82,5 4   08-9404	44.95 -1.6 x 72.95	A IN ATM	26 x 68	1 301' 2,000 1 005 2,000 1 533 3,000	Std. .50 1.00		7347900 6367900 7225201 6367911 7225212 6367922		

1	2	3	4	5	6			7	8	
OPEL										
X 20 DTL 1998 cc, 18.5:1, 60 KW (82 HP) Turbo Astra 02/98 ... Omega, Vectra 10/97 ...	80446.1 84 4   08-0201	45.8 -1.2-14.9 x 70.8	IN	29 x 68	1 301' 1 005' 1 533	2,000 1,750 3,000	Std. .50	7381706 7381710	6381701 6381712	
X 20 DTH 1998 cc, 19.5:1, 74 KW (100 HP) Diesel Turbo Intercooler 10/1997... Omega, Vectra	80447.1 84 4   08-0201	45.8 -1-14.67 x 70.8	IN	29 x 68	1 348' 1 005' 1 533	2,500 1,750 3,000	Std. .50	7381603 7381614	6381605 6381616	
X 22 DTH 2172 cc, 19.5:1, 85 KW (116 HP) Diesel Turbo Intercooler 1998... Frontera, Omega, Zafira	80448.1 84 4   08-0201	45.8 -1-14.53 x 70.8	IN	29 x 68	1 348' 1 005' 1 533	2,500 1,750 3,000	Std. .50	7381603 7381614	6382003 6382014	

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
OPEL							
X 22 DTH 2172 cc, 19.5:1, 85 KW (116 HP) Diesel Turbo Intercooler 1998... Sintra	80449.1 84 4   08-0201	45.8 -1-14.8 x 70.8	IN	29 x 68	1 348' 2,500 1 005' 1,750 1 533 3,000	Std. .50	7381603 6382401 7381614 6382412
2.0 SE 1998 cc, 10:1, 90/95 KW (122/129 HP) Inyección Sep.1986... Ascona i, Calibra i, Kadett GSI, Omega i	08603.1 86 4   08-9409	30,4 -5 x 50,4	CIN	21 x 61,5 F	1 600' 1,500 1 023 1,500 1 231 3,000	Std. .50	7349101 6349103 7349112 6349114
2.0 NE, C 2.0 NZ 1998 cc, 9.2:1, 84.5 KW (115 HP) Inyección Catalizador Ascona i, Astra, Calibra i, Kadett GSI, Omega i, Vectra 09/1986 ... Frontera 1991 ...	08604.1 86 4   08-9409 Cámara de combustión Ø 57 mm Combustion bowl Ø 57mm Chambre de combustion Ø 57 mm	30,4 -5 x 55,4 30,1 -5 x 55,1	CIN VC	21 x 61.5 F	1 600' 1,500 1 023 1,500 1 231 3,000	Std. .50 1.00	7349101 6352802 7349112 6352813 7349123 6352824
G9T, 720 2188 cc, 18:1, 66 KW (90 HP) Movano DTI 09/2000...	80706.1 87 4						See Renault

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8
OPEL								
4FD1 2238 cc, 21.5:1, 45 KW (61 HP) Diesel MIDI 2.2 L	80816.1 88 4							See Isuzu
G9U 720 2463 cc, 21:1, 84 KW Oct. 2001... Movano 2.5 DTI G9U 730 2463 cc, 21:1, 84 KW May. 2003... Vivaro 2.5 DTI	80903.1 89 4							See Renault



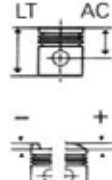

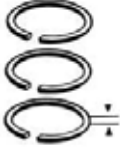








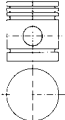
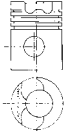

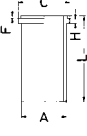


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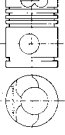
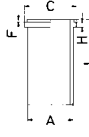
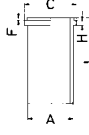
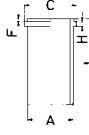
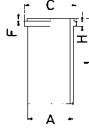
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
PEGASO										
9020, 9020 /10, 9040, 9040 /11, 9140, 9140 /11, 9140 /12, 9140 /25, 9130/11 /14 /15 /17 /19 /20 /21 /23 /25, 9132 /18		16:1	6	107.21	6539	99	135	5064 A, 2031, 5064 B, 5064 A /5, 5064 A /5, 5064 A /1, 1091 /1, 1098 L /1, 1098 /1, 1098 LDR1, 5063 DR1, 1090 V, 1090 L, 1090, Comet, 1214, 1098 DR1, 3045 /20-4x4, 7042, 3040, 2030 DR, 6042 /1, 5080, 1101 L /1, 1101 /1, 1100 L /1, 1100 /1, 1126, 1121 L	10768.2	201
9100, 9100 /13, 9100 /14, 9100 /15, 9100 /18, 9100 /40, 9100 /50, 9100 /55, 9100 /56, 9100 /57, 9101 /1, 9101/8, 9101 /12, 9103 /6, 9103/8		16:1	6	118	10170	125	170	1065 B, 1065 BL, 1065 B /1, 1065 BL /1, 1065 BL /4, 1065 BL /5, 1135 /1, 1135 L /1, 1135 /15, 1217, 2020 B, 2020 B4, 2135, 2217, 3050, 3050 /4, 3050 /40, 5023 CL, 5023 L, 5023 CLA, 5023 DL5, 5030, 5030 E, 5030 L3, 5070 /1, 5074 N, 5117, 6035, 6035 /4, 6046 /2	11800.1	202
9105, 9105 /10, 9105 /17, 9105 /42, 9105 /44, 9105 /45, 9105 /46, 9105 /47, 9105 /48, 9106 /2, 9106/3, 9106 /5, 9106/6, 9106 /7, 9106/9, 9107		15.5:1	6	120	10518	191	260	1061 A, 1061 LA, 1063 A, 1065 B /6, 1065 BL /6, 1065 B /8, 1065 BL /8, 1066 A, 1080, 1080 L, 1080 /20, 1080 L /20, 1083, 1083 L, 1083 /3, 1086 /2, 1136, 1136 L, 1180 /11, 1180 /21, 1183 /3, 1183 /10, 2011 A, 2080 /1 /4 /11, 2180 /11, 3060 LA /GL /GLA, 3075, 3080, 3180, 5024, 5024 DLN5 /CLN, 5031 /1, 5031 B, 5031 L /3, 5031 L /4, 5031 L /6, 5032, 5034 L /2, 5071 /2 /3, 6031 A, 6031 A /2, 6031 N /2, 6035 A /1, 6035 A /2, 6036, 6038, 6046 /1	12084.1	204
9109/1, 9109 /2, 9109/9, 9109 /13, 9109 /14, 9109 /15, 9109 /16, 9109 /41, 9109/42		15.5:1	6	120	10518	191	260	1066 /50, 1066 /51, 1066 /52, 1066 /53, 1080 /50 /53 /60 /63, 1083 /50 /53 /61, 1086 /52 /54 /62 /64, 1088 /50 /53 /60 /63, 1180 L /50, 1180 /53, 1180 L /53, 1180 /60, 1180 L /60, 1183 /50, 1183 L /50, 1183 /53 /60, 1186 /52 /54 /62, 2011 /50, 2040 /50, 2080 /50 /51 /54 /61 /64, 2188 /60, 3060 /50, 3076 D, 3078, 3080 /50 /60, 3088 /2 /10 /12 /13 /22, 3180 /50 /60, 3188 /2 /10 /13, 5035 N /NA /NB	12028.1	203
9135, 9135 /2, 9135 /12, 9135 /13, 9135 /15, 9135 /20, 9135/30		16:1	6	107.21	6550	114/125	155/170	2020 B, 1133, 1133 L, 5068, 6060, 1127 L /V /B, 3046 T, 5064 T, 1216, 6025, 5317	10757.1	200
9154, 9152		15.5:1	6	130	11945	165.5	225	5076, 5076 N, 6050, 6420	13108.1	206

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
9156, 9157, 9180/03		14.5:1	6	130	11945	198.5/250	270/340	Tecno, 1187 /10, 1089, 1181, 1184 /10, 1187 /10, 1190, 2081 /60, 2082 /60 /80, 2089 /60 /80, 2090, 2181 /60, 2182 /60, 2189 /60, 2190, 3088 /92, 3089 /1, 3181 DUMPER, 3188 /92, 3189, 5036, 6100, 1228, 1231, 1234 T(T2), 1234 R, 1331, 1431, 1434, 2331, 2431	13087.2	206
9180/00		15.5:1	6	130	11945	264.5	360	1236.38(T3), 1236 RTS /TR, 1336 RTS, 1436 TL /TR, TRONER TL /TS /TR /TX	13129.1	207
9220, 9222		15.5:1	6	120	10518	165.5	225	1135 /50, 1135 L /50, 1135 /55, 1145, 1145 L, 1183 /70, 1183 /80, 1186 /70, 1186 /80, 2135 /50, 2180 /70, 2180 /80, 3180 /70, 3180 /80, 1223, 2321	12096.1	205
96 R 1 FX		15.5:1	6	130	11945	294	400	1237 TTX, TRONER	13129.2	207
Compresor			1	90				Compressor for 9100 engine	09061.1	210

P

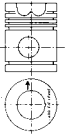









			Type	 Ø x L			 	    	
1	2	3	4	5	6	7	7	8	
PEGASO									
Compresor Compresor for 9100 engine	09061.1 90 1  09-8001	46 x 80		20 x 79.8	1 005 2,500 1 005 2,500 1 030 5,000 1 030 5,000	Std. .50 1.00		7222003 6251803 7222014 6251814 7222025 6251825	
9135, 9135/2, 9135/12, 9135/13, 9135/15, 9135/20, 9135/30 6550 cc, 16:1, 114/125 KW (155 /170 HP) Direct Injection Diesel Turbocharged Diesel 1127 L /V /B, 1133, 1133 L, 1216, 2020 B, 3046 T, 5064 T, 5068, 5317, 6025, 6060	10757.1 107,2 6  10-3971	82,1 -2,2-23,65 x 137,5	IN	42 x 88	1 399' 3,000 1 045 2,380 1 022 2,381 1 530 6,350	 4067313 A=111,4 L=239.57 C=113.1 H+F= 4.3+1  4411212 A=111,4 L=239.57 C=113.1 H+F= 4.3+1  4489015 A=111,9 L=239.57 C=113.2 H+F= 4.3+1  4703915 A=111,4 L=239.57 C=113.1 H+F= 4.3+1	Std. Std. Std. Std.	7483906 6484203 5484205	

1	2	3	4	5	6	7	8
PEGASO							
<p>9020, 9020/10, 9040, 9040 /11, 9140, 9140/11, 9140 /12, 9140/25, 9130/11 /14 /15 /17 /19 /20 /21 /23 /25, 9132/18</p> <p>6539 cc, 16:1, 99 KW (135 HP) With pin Ø 45 mm Direct Injection Diesel 1977...</p> <p>1090, 1090 L, 1090 V, 1091 /1, 1098 DR1, 1098 L/1, 1098 LDR1, 1098 /1, 1100 L/1, 1100/1, 1101 L/1, 1101 /1, 1121 L, 1126, 1214, 2030 DR, 2031, 3040, 3045 /20-4x4, 5063 DR1, 5064 A, 5064 A /1, 5064 A/5, 5064 B, 5080, 6042 /1, 7042, Comet</p>	<p>10768.2 107,21 6</p>  <p>10-0015</p>	<p>82,1 -2,3-19,9 x 132,9</p>	<p>IN</p>	<p>33 x 90.85</p>	<p>1 399' 3,000 1 045 2,380 1 022 2,380 1 530 6,350 1 032 6,350</p>	<p>Std.</p>  <p>4067313 A=111,4 L=239.57 C=113.1 H+F= 4.3+1</p>  <p>4411212 A=111,4 L=239.57 C=113.1 H+F= 4.3+1</p>  <p>4489015 A=111,9 L=239.57 C=113.2 H+F= 4.3+1</p>  <p>4703915 A=111,4 L=239.57 C=113.1 H+F= 4.3+1</p>	<p>7049000 6049002</p> <p>5049100</p>

				Type				
1	2	3	4	5	6	7	8	

PEGASO

<p>9100, 9100/13, 9100/14, 9100/15, 9100/18, 9100/40, 9100/50, 9100/55, 9100/56, 9100/57, 9101/1, 9101/8, 9101/12, 9103/6, 9103/8 10170 cc, 16:1, 125 KW (170 HP) Direct Injection Diesel 1065 B, 1065 B/1, 1065 BL, 1065 BL/1, 1065 BL/4, 1065 BL/5, 1135 L/1, 1135/1, 1135 /15, 1217, 2020 B, 2020 B4, 2135, 2217, 3050, 3050/4, 3050 /40, 5023 CL, 5023 CLA, 5023 DL5, 5023 L, 5030, 5030 E, 5030 L3, 5070 /1, 5074 N, 5117, 6035, 6035/4, 6046/2</p>	11800.1	102,5	IN	50	1	307	3,000	Std.	7369504 6369506	
	118	-2-30,8		x	x	1	045			3,000
	6	x		98	1	022	3,000			
		160,5			1	530	6,000			
					1	032	6,000			
	11-1971								4063721	5185703
									A=131 L=313.2 C=146 H+F= 60.1+3	
									(Cast Iron Cylinder Block)	
									4063754	5324502
									A=131 L=313.2 C=146 H+F= 60.1+3	
									NITRURADA	
									4068330	5186101
									A=131 L=313.2 C=146 H+F= 54.2+3	
									(Cast Iron Cylinder Block)	
									4068352	5324804
									A=131 L=313.2 C=146 H+F= 54.2+3	
									NITRURADA	

1	2	3	4	5	6	7	8	PEGASO	
1	2	3	Type	Ø x L				8	
<p>9109/1, 9109/2, 9109/9, 9109/13, 9109/14, 9109/15, 9109/16, 9109/41, 9109/42 10518 cc, 15.5:1, 191 KW (260 HP) Turbo Inyección Diesel Directa 1066/50, 1066/51, 1066/52, 1066/53, 1080/50/53/60/63, 1083/50/53/61, 1086/52/54/62/64, 1088/50/53/60/63, 1180 L/50, 1180 L/53, 1180 L/60, 1180/53, 1180/60, 1183 L/50, 1183/50, 1183/53/60, 1186/52/54/62, 2011/50, 2040/50, 2080/50/51/54/61/64, 2188/60, 3060/50, 3076 D, 3078, 3080/50/60, 3088/2/10/12/13/22, 3180/50/60, 3188/2/10/13, 5035 N /NA /NB</p>	<p>12028.1 120 6 12-2969</p>  	<p>102 -28 x 160</p>	<p>IN</p>	<p>50 x 98</p>	<p>1 399' 3,000 1 045 3,000 1 022 3,000 1 530 6,000 1 032 6,000</p>	<p>Std.</p>        	<p>4064023 A=131 L=313.2 C=146 H+F= 60.1+3</p> <p>4064056 A=131 L=313.2 C=146 H+F= 60.1+3</p> <p>NITRURADA 4068934 A=131 L=313.2 C=146 H+F= 54.2+3</p> <p>4068956 A=131 L=313.2 C=146 H+F= 54.2+3</p> <p>NITRURADA</p>	<p>7171706 6171701</p> <p>5365102</p> <p>5324104</p> <p>5187103</p> <p>5323205</p>	

				Type					
1	2	3	4	5	6	7	8	8	8

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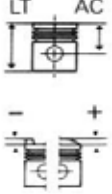

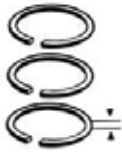




<p>9105, 9105/10, 9105/17, 9105/42, 9105/44, 9105/45, 9105/46, 9105/47, 9105/48, 9106/2, 9106/3, 9106/5, 9106/6, 9106/7, 9106/9, 9107</p> <p>10518 cc, 15.5:1, 191 KW (260 HP) Direct Injection Diesel</p> <p>1061 A, 1061 LA, 1063 A, 1065 B/6, 1065 B/8, 1065 BL/6, 1065 BL/8, 1066 A, 1080, 1080 L, 1080 L/20, 1080/20, 1083, 1083 L, 1083/3, 1086/2, 1136, 1136 L, 1180/11, 1180/21, 1183/10, 1183/3, 2011 A, 2080/1/4/11, 2180/11, 3060 LA/GL</p> <p>/GLA, 3075, 3080, 3180, 5024, 5024 DLN5/CLN, 5031 B, 5031 L/3, 5031 L/4, 5031 L/6, 5031/1, 5032, 5034 L/2, 5071/2/3, 6031 A, 6031 A/2, 6031 N/2, 6035 A/1, 6035 A/2, 6036, 6038, 6046/1</p>	<p>12084.1</p> <p>120</p> <p>6</p>	<p>102,5</p> <p>-28,5</p> <p>x</p> <p>160,5</p>	<p>IN</p>	<p>50</p> <p>x</p> <p>98</p>	<p>1 399' 3,000</p> <p>1 045 3,000</p> <p>1 022 3,000</p> <p>1 530 6,000</p> <p>1 032 6,000</p>	<p>Std.</p>	<p>7171706 6171200</p>	
	<p>12-2969</p>					<p>4064023</p> <p>A=131</p> <p>L=313.2</p> <p>C=146</p> <p>H+F= 60.1+3</p>		
						<p>4064056</p> <p>A=131</p> <p>L=313.2</p> <p>C=146</p> <p>H+F= 60.1+3</p>		5324406
						<p>NITRURADA</p> <p>4068934</p> <p>A=131</p> <p>L=313.2</p> <p>C=146</p> <p>H+F= 54.2+3</p>		5190603
						<p>4068956</p> <p>A=131</p> <p>L=313.2</p> <p>C=146</p> <p>H+F= 54.2+3</p>		5323301
					<p>NITRURADA</p>			

				Type				
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PEGASO



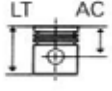

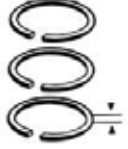

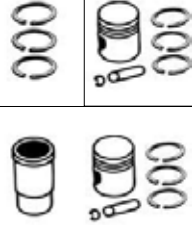
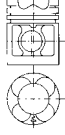
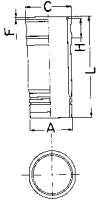
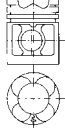
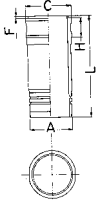
9220, 9222 10518 cc, 15.5:1, 165.5 KW (225 HP) Direct Injection Diesel Turbocharged Diesel 1135 L/50, 1135/50, 1135 /55, 1145, 1145 L, 1183/70, 1183/80, 1186 /70, 1186/80, 1223, 2135/50, 2180/70, 2180 /80, 2321, 3180/70, 3180/80	12096.1	101,95	IN	50	1	398'	3,000	Std.	7195705 6195700
	120	-2-29,3		x	1	045	3,000		
	6	x		98	1	045	3,000		
		159,95			1	530	4,000		
	12-2969							4064023	5291300
								4064056	5324200
								NITRURADA	
								4068934	5195805
								4068956	5323404
								NITRURADA	

P

			Type	 Ø x L					
1	2	3	4	5	6	7	8		



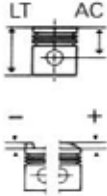

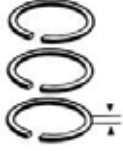




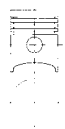

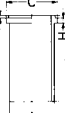
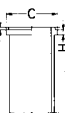
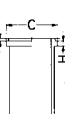

PEGASO

<p>9156, 9157, 9180/03 11945 cc, 14.5:1, 198.5/250 KW (270 /340 HP) Direct Injection Diesel Turbocharged Diesel 1089, 1181, 1184/10, 1187 /10, 1190, 1228, 1231, 1234 R, 1234 T(T2), 1331, 1431, 1434, 2081/60, 2082/60 /80, 2089/60 /80, 2090, 2181/60, 2182 /60, 2189/60, 2190, 2331, 2431, 3088 /92, 3089/1, 3181 DUMPER, 3188 /92, 3189, 5036, 6100, Tecno</p>	<p>13087.2 130 6  13-1969</p>	<p>99,6 -1,6-28,6 x 174,6</p>	<p>IN</p>	<p>55 x 106</p>	<table border="1"> <tr><td>1</td><td>399'</td><td>3,000</td></tr> <tr><td>1</td><td>395</td><td>3,000</td></tr> <tr><td>1</td><td>045</td><td>3,000</td></tr> <tr><td>1</td><td>530</td><td>6,000</td></tr> </table>  	1	399'	3,000	1	395	3,000	1	045	3,000	1	530	6,000	<p>Std. 4064222 A=146 L=306.75 C=161 H+F= 60.11+3 4076122 A=146 L=306.75 C=161 H+F= 54.2+3</p>	<p>7347200 6347202 5347506 5347204</p>
1	399'	3,000																	
1	395	3,000																	
1	045	3,000																	
1	530	6,000																	
<p>9154, 9152 11945 cc, 15.5:1, 165.5 KW (225 HP) Direct Injection Diesel 5076, 5076 N, 6050, 6420</p>	<p>13108.1 130 6  13-1969</p>	<p>99,6 -1,6-26,6 x 174,6</p>	<p>IN</p>	<p>55 x 106</p>	<table border="1"> <tr><td>1</td><td>398'</td><td>3,500</td></tr> <tr><td>1</td><td>045</td><td>3,000</td></tr> <tr><td>1</td><td>022</td><td>3,000</td></tr> <tr><td>1</td><td>530</td><td>4,000</td></tr> </table> 	1	398'	3,500	1	045	3,000	1	022	3,000	1	530	4,000	<p>Std. 4064222 A=146 L=306.75 C=161 H+F= 60.11+3</p>	<p>7137804 6137806 5137801</p>
1	398'	3,500																	
1	045	3,000																	
1	022	3,000																	
1	530	4,000																	



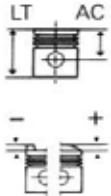

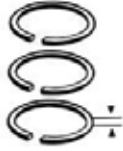


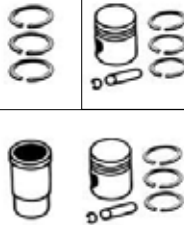
1	2	3	4	5	6	7	8	PEGASO	
1	2	3	4	5	6	7	8	PEGASO	
	 130 6	 99.6 -1.35-27.9 x 154.6	Type IN	 $\varnothing \times L$ 55 x 106	 1 948' 3,500 1 349 3,000 1 530 4,000	 Std. 4076122 A=146 L=306.75 C=161 H+F= 54.2+3	 7272204 6272206 5272201		
9180/00 11945 cc, 15.5:1, 264.5 KW (360 HP) Direct Injection Diesel Turbo Intercooler 1236 RTS /TR, 1236.38(T3), 1336 RTS, 1436 TL /TR, TRONER TL /TS /TR /TX	13129.1 130 6  13-8302	99.6 -1.35-27.9 x 154.6	IN	55 x 106	1 948' 3,500 1 349 3,000 1 530 4,000	 Std. 4076122 A=146 L=306.75 C=161 H+F= 54.2+3	7272204 6272206 5272201		
	13129.2 130 6  13-9001 Biela trapecial	99.6 -1,35-27,9 x 154.6	IN	55 x 106	1 948' 3,500 1 349 3,000 1 530 4,000	 Std. 4076122 A=146 L=306.75 C=161 H+F= 54.2+3	7272204 6325900 5325902		

INDICE / INDEX


Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								PERKINS (See also Nissan-Motor Iberica)		
3.152		18.4:1	3	91.49	2490	34.5	47		09750.1	215
3.152 D		18.4:1	3	91.49	2490	34.5	47		09179.3	213
4.108		22:1	4	79.375	1760	29/37/38	40/50/52		70937.2 70933.5	210 209
4.203		17.4:1	4	91.49	3335	20/46.5	27/63		09750.1	215
4.203 D		18.4:1	4	91.49	3330	40	54.5		09179.3	213
4.203.2		19:1	4	91.49	3300				90149.1	216
4.212		15:1	4	98.476	3470	44	60		90400.1	221
4.236		16:1	4	98.476	3860	43.5/59	59/80		09820.3 09820.4 09820.1 90849.1	218 219 217 225
4.248		16:1	4	101.054	4060	53/56	72/76		10216.1	229
4.248.2		18:1	4	101.054	4067	60	81.5		10105.1	227
6.305		17.4:1	6	91.49	5000	29.5/65.5	40/89		09750.1	215
6.354		16:1	6	98.476	5800	71.5/87	97/118		09840.5	220
6.354.3, 6.354.4		16:1	6	98.476	5800	92.3	125.6		90844.1	226
6.372.3		16:1	6	101.054	6100	75	102		10148.1	228
B 4.40	Nissan-Motor Iberica	17:1	4/6	100	3990	66	90		10241.1	187
B 6.60	Nissan-Motor Iberica	17:1	4/6	100	5985	99.5	135		10241.1	187
PRIMA 65		18.1:1	4	84.44	1993	46	62		80444.1	211
PRIMA 80T		17.2:1	4	84.44	1993	59	80		80445.1	211
T4.236			4	98.476	3860	70	95		90845.2	223
T6.354.3		16:1	6	98.476		107.5	146		90847.2	224
T6.354.4		16:1	6	98.476		107.5	146		90487.1	222





1	2	3	4	5	6	7	8	PERKINS	
			Type	 Ø x L					
1	2	3	4	5	6	7	8		
4.108 1760 cc, 22:1, 29/37/38 KW (40/50 /52 HP)	70933.5 79,375 3,125" 4  07-1073 (Machine piston crown if necessary)	50,62 x 95	ALM R H	26.987 x 68.2	1 344' 1,984 1 045 1,587 1 022 1,587 1 533 4,747     	Std. 4400115 A=82,626 L=165.227 C=0 H= 0 4409016 A=82,626 L=165.2 C=86.12 H+F= 4.3+0.75 4409064 A=83,026 L=165.2 C=86.12 H+F= 4.3+0.75 4702810 A=82,626 L=165.2 C=86.12 H+F= 4.3+0.75 4703812 A=82,64 L=165.2 C=0 H= 0	7060605 6060600		

P

			Type					
1	2	3	4	5	6	7	7	8

PERKINS

<p>4.108 1760 cc, 22:1, 29/37/38 KW (40/50 /52 HP)</p>	<p>70937.2 79,375 3,125" 4  07-9979 (Machine piston crown if necessary)</p>	<p>50,6 x 88,6</p>	<p>IN ALM</p>	<p>26.987 x 68.2</p>	<p>1 344' 1,984 1 045 2,500 1 533 4,747</p>	<p>Std.</p>	<p>7248706 6248701</p>	<p>4400115 A=82,626 L=165.227 C=0 H= 0</p> <p>4409016 A=82,626 L=165.2 C=86.12 H+F= 4.3+0.75</p> <p>4409064 A=83,026 L=165.2 C=86.12 H+F= 4.3+0.75</p> <p>4420312 A=82,626 L=165.2 C=85.637 H+F= 3.2+0.6</p> <p>4702810 A=82,626 L=165.2 C=86.12 H+F= 4.3+0.75</p> <p>4703812 A=82,64 L=165.2 C=0 H= 0</p>
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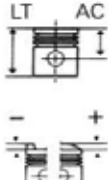

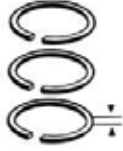



1	2	3	4	5	6	7	8		
PERKINS									
PRIMA 65 1993 cc, 18.1:1, 46 KW (62 HP) Normally Aspirated Direct Injection Diesel 1987...	80444.1 84,442 3,324" 4   08-9006	48 -0,5-13,6 x 77	IN ATM	28 x 71	1 640' 2,000 1 005 1,750 1 533 3,000	Std. .020	7314300 7314311	6314302 6314313	
PRIMA 80T 1993 cc, 17.2:1, 59 KW (80 HP) Direct Injection Diesel Turbocharged Diesel	80445.1 84,442 3,324" 4   08-9006	48 -0,75-13,3 x 77	IN ATM	28 x 71	1 640' 2,000 1 005 1,750 1 533 3,000	Std. .020 .040	7314300 7314311 7314322	6336400 6336411 6336422	

P

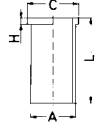
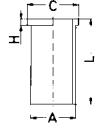

			Type									
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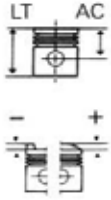

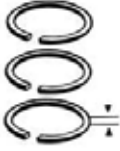


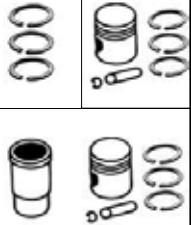
PERKINS

3.152 D 2490 cc, 18.4:1, 34.5 KW (47 HP) Direct Injection Diesel 4.203 D 3330 cc, 18.4:1, 40 KW (54.5 HP) Direct Injection Diesel	09179.3	61,95		31.75	1 301 2,382	Std.	7312605 6312703
	91,49	-18,55		x	1 005 2,381		
	3/4	x		75.3	1 022 3,175		
		109,57			1 533 6,350		
					1 031 6,350		
					1 301 2,382	Std.	7426204 6157502
					1 005 2,381		
					1 022 3,175		
					1 231 6,350		
					1 031 6,350		
	09-8501						5157504
						4054514 A=93,662 L=215.9 C=96.6 H= 3.76	
						4406710 A=96,5 L=216 C=97.5 H= 5	
						4449012 A=93,738 L=216 C=96.723 H= 3.81	
						4449023 A=93,738 L=216 C=96.723 H= 3.81	
						4449060 A=94,13 L=216 C=96.723 H= 3.81	
						4457014 A=93,764 L=216 C=0 H= 0	


			<p>Type</p>	 <p>Ø x L</p>				
1	2	3	4	5	6	7	8	8

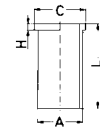
PERKINS

					 <p>4701410 A=93,738 L=216 C=96.723 H= 3.81</p>  <p>4702913 A=93,764 L=216 C=97.26 H= 5</p>  <p>4703716 A=93,8 L=216 C=0 H= 0</p>		
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			Type					
1	2	3	4	5	6	7	8	

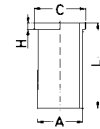
PERKINS

<p>3.152 2490 cc, 18.4:1, 34.5 KW (47 HP) Diesel Inyección Directa</p> <p>4.203 3335 cc, 17.4:1, 20/46.5 KW (27 /63 HP)</p> <p>6.305 5000 cc, 17.4:1, 29.5/65.5 KW (40 /89 HP) Indirect Injection Diesel</p>	09750.1	57,25		31.75	1 005 2,381 1 005 2,381 1 022 3,175 1 231 6,350 1 031 6,350	Std.	7026504 6026506	
	91,49 3,602"	x 108,05		x 75.3				
	3/4/6				1 301 2,382 1 005 2,381 1 022 3,175 1 533 6,350 1 031 6,350	Std.	7312605 6312600	
					1 301 2,382 1 005 2,381 1 022 3,175 1 231 6,350 1 031 6,350	Std.	7426204 6426206	
	09-0061							
	7026504 and 6026506 (For chromed bores only)							

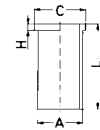


4054514
A=93,662
L=215.9
C=96.6
H= 3.76

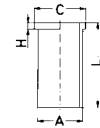
5428905



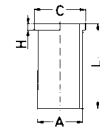
4406710
A=96,5
L=216
C=97.5
H= 5





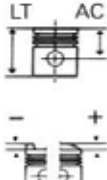

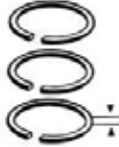


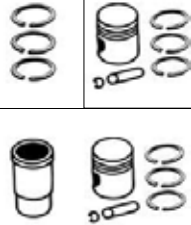
4449012
A=93,738
L=216
C=96.723
H= 3.81




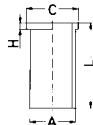
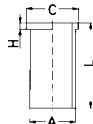

4449023
A=93,738
L=216
C=96.723
H= 3.81



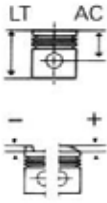




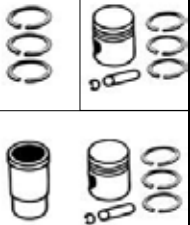


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A=94,13
L=216
C=96.723
H= 3.81



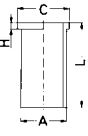
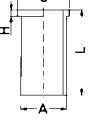
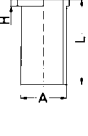
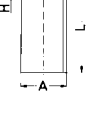
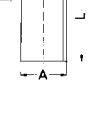
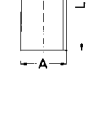
			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8



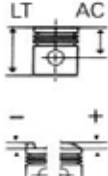

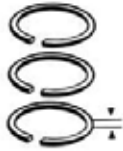


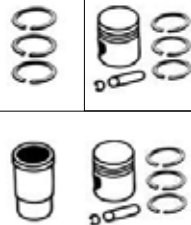
PERKINS

					 <p>4457014 A=93,764 L=216 C=0 H= 0</p>  <p>4701410 A=93,738 L=216 C=96.723 H= 3.81</p>  <p>4702913 A=93,764 L=216 C=97.26 H= 5</p>  <p>4703716 A=93,8 L=216 C=0 H= 0</p>		
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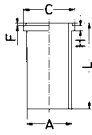
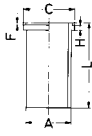
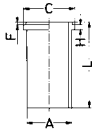

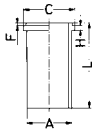
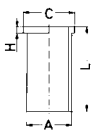
			Type					
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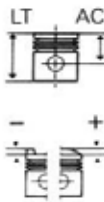

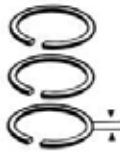


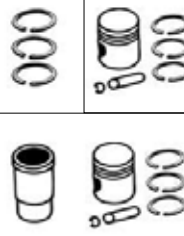
4.203.2 3300 cc, 19:1,	90149.1 91,49 3,602" 4   09-0101	61,85 -22,1 x 109,45		31.75 x 75.3	1 394' 2,381 1 055' 2,385 1 055' 2,385 1 533 4,747	     	Std. 4054514 A=93,662 L=215.9 C=96.6 H= 3.76 4449012 A=93,738 L=216 C=96.723 H= 3.81 4449023 A=93,738 L=216 C=96.723 H= 3.81 4449060 A=94,13 L=216 C=96.723 H= 3.81 4701410 A=93,738 L=216 C=96.723 H= 3.81 4702913 A=93,764 L=216 C=97.26 H= 5	7379805 6379800 5379802
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			Type					
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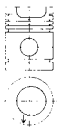
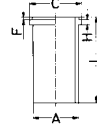
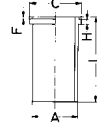
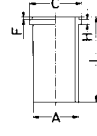
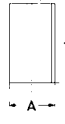
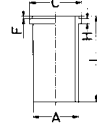
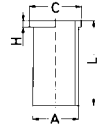
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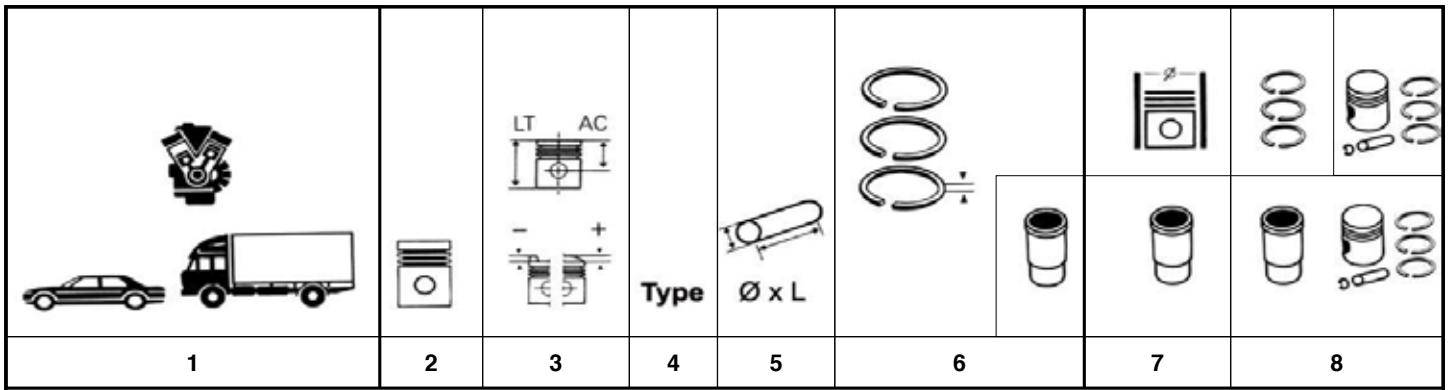
<p>4.236 3860 cc, 16:1, 43.5/59 KW (59/80 HP) Direct Injection Diesel 1977...</p>	<p>09820.1 98,476 3,877" 4</p>  <p>09-1967</p>	<p>70,19 -20,35 x 120,99</p>	<p>IN</p>	<p>34.925 x 83.9</p>	<p>1 344' 2,382 1 045 2,381 1 022 2,381 1 533 6,350</p>	<p>Std.</p>  <p>4072515 A=103,188 L=227.27 C=106.45 H+F= 3.71+1.04</p>  <p>4408810 A=103.264 L=227.3 C=106.43 H+F= 3.86+0.84</p>  <p>4408865 A=103,664 L=227.3 C=106.43 H+F= 3.86+0.84</p>  <p>4468310 A=103,264 L=228.98 C=0 H= 0</p>  <p>4702515 A=103,21 L=227.3 C=106.36 H+F= 3.7+1</p>  <p>4702714 A=103,264 L=229 C=107.26 H= 5</p>	<p>7159003 6158401</p> <p>5467501</p>	
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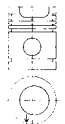
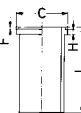
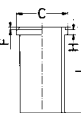

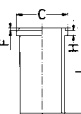
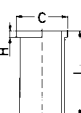
			Type	 $\varnothing \times L$				
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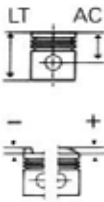

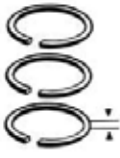
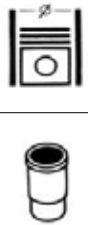
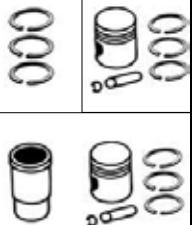
<p>4.236 3860 cc, 16:1, 43.5/59 KW (59/80 HP) Direct Injection Diesel 1977...</p>	<p>09820.3 98,476 3,877" 4</p>  <p>09-1967</p>	<p>70,19 -20,35 x 120,99</p>	<p>IN</p>	<p>34.925 x 83.9</p>	<table border="1"> <tr> <td>1</td> <td>344'</td> <td>2,382</td> </tr> <tr> <td>1</td> <td>045</td> <td>2,381</td> </tr> <tr> <td>1</td> <td>022</td> <td>2,381</td> </tr> <tr> <td>1</td> <td>533</td> <td>6,350</td> </tr> <tr> <td>1</td> <td>032</td> <td>6,350</td> </tr> </table>	1	344'	2,382	1	045	2,381	1	022	2,381	1	533	6,350	1	032	6,350	<p>Std.</p>	<p>7169606 6169601</p>	<p>7419602 6419604</p> <p>5169500 (6169601) 5419606 (6419604)</p>  <p>4072515 A=103,188 L=227.27 C=106.45 H+F= 3.71+1.04</p>  <p>4408810 A=103.264 L=227.3 C=106.43 H+F= 3.86+0.84</p>  <p>4408865 A=103,664 L=227.3 C=106.43 H+F= 3.86+0.84</p>  <p>4468310 A=103,264 L=228.98 C=0 H= 0</p>  <p>4702515 A=103,21 L=227.3 C=106.36 H+F= 3.7+1</p>  <p>4702714 A=103,264 L=229 C=107.26 H= 5</p>
1	344'	2,382																					
1	045	2,381																					
1	022	2,381																					
1	533	6,350																					
1	032	6,350																					



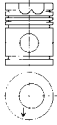
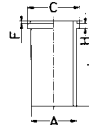
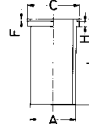
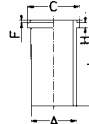

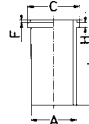
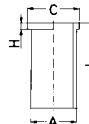
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4.236 3860 cc, 16:1, 43.5/59 KW (59/80 HP) Direct Injection Diesel 1977...	09820.4 98,476 3,877" 4  09-1967	70,19 -20,35 x 120,99		34.925 x 83.9	1	344'	2,382	Std.	7169606 6170404
					1	045	2,381		
					1	022	2,381		
					1	533	6,350		
					1	032	6,350		
					1	344'	2,382	Std.	7419602 6419906
					1	045	2,381		
					1	022	2,381		
					1	032	6,350		
					1	032	6,350		
						 4408810 A=103.264 L=227.3 C=106.43 H+F= 3.86+0.84			
						 4408865 A=103,664 L=227.3 C=106.43 H+F= 3.86+0.84			
						 4468310 A=103,264 L=228.98 C=0 H= 0			
						 4702515 A=103,21 L=227.3 C=106.36 H+F= 3.7+1			
						 4702714 A=103,264 L=229 C=107.26 H= 5			
						4421211 A=104,279 L=226,3 C=107,44 H=3,86			

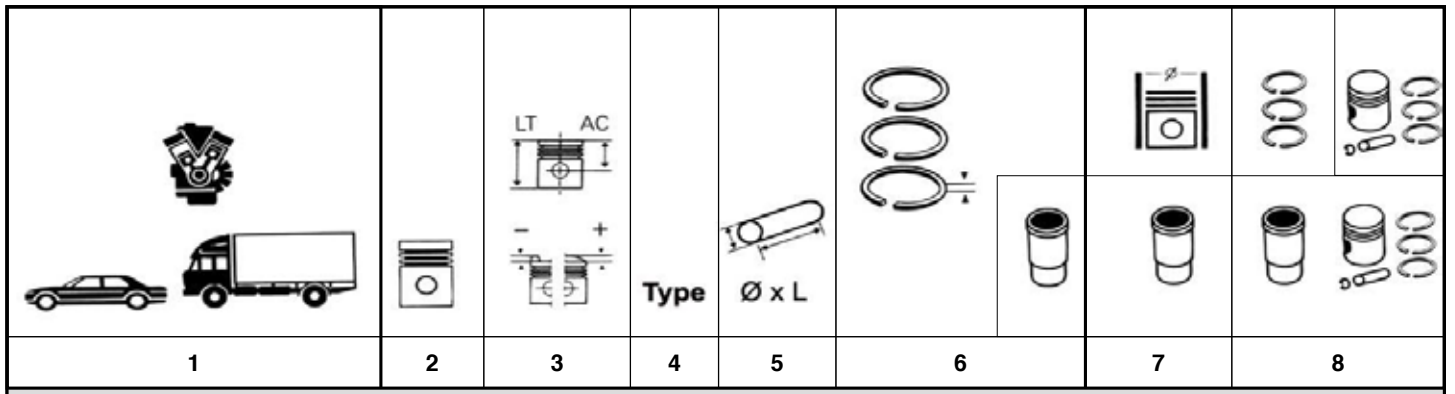
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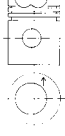
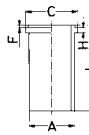
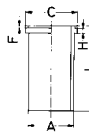
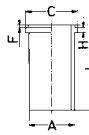

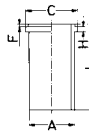
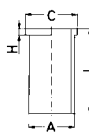
			Type				
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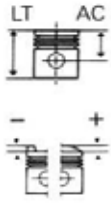





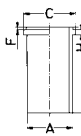

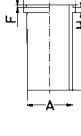

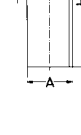
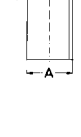
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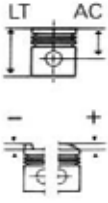

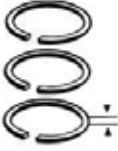




<p>6.354 5800 cc, 16:1, 71.5/87 KW (97/118 HP)</p>	<p>09840.5 98,476 3,877" 6</p>  <p>09-1967 (Machine piston crown if necessary)</p>	<p>70,19 -25,8 x 120,99</p>	<p align="center">IN</p>	<p>34.925 x 83.9</p>	<table border="0"> <tr><td>1</td><td>344'</td><td>2,382</td></tr> <tr><td>1</td><td>045</td><td>2,381</td></tr> <tr><td>1</td><td>022</td><td>2,381</td></tr> <tr><td>1</td><td>533</td><td>6,350</td></tr> <tr><td>1</td><td>032</td><td>6,350</td></tr> </table>	1	344'	2,382	1	045	2,381	1	022	2,381	1	533	6,350	1	032	6,350	<p>Std.</p>  <p>4072515 A=103,188 L=227.27 C=106.45 H+F= 3.71+1.04</p>  <p>4408810 A=103.264 L=227.3 C=106.43 H+F= 3.86+0.84</p>  <p>4408865 A=103,664 L=227.3 C=106.43 H+F= 3.86+0.84</p>  <p>4468310 A=103,264 L=228.98 C=0 H= 0</p>  <p>4702515 A=103,21 L=227.3 C=106.36 H+F= 3.7+1</p>  <p>4702714 A=103,264 L=229 C=107.26 H= 5</p>	<p>7169606 6206303</p> <p align="center">5206305</p>
1	344'	2,382																				
1	045	2,381																				
1	022	2,381																				
1	533	6,350																				
1	032	6,350																				

1	2	3	4	5	6	7	8
			Type				
1	2	3	4	5	6	7	8
PERKINS							
4.212 3470 cc, 15:1, 44 KW (60 HP) Direct Injection Diesel from Engine 212UA87004	90400.1 98,476 3,877" 4 09-4976	76,53 -19,1 x 127,33		34.925 x 83.9	1 344' 2,382 1 045 2,381 1 022 2,381 1 533 6,350	Std. 4072515 A=103,188 L=227.27 C=106.45 H+F= 3.71+1.04 4408810 A=103.264 L=227.3 C=106.43 H+F= 3.86+0.84 4408865 A=103,664 L=227.3 C=106.43 H+F= 3.86+0.84 4468310 A=103,264 L=228.98 C=0 H= 0 4702515 A=103,21 L=227.3 C=106.36 H+F= 3.7+1 4702714 A=103,264 L=229 C=107.26 H= 5	7159003 6439101 5468400

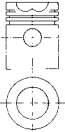
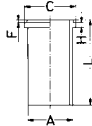
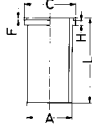
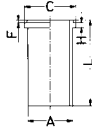
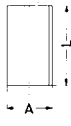
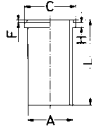
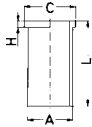




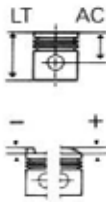


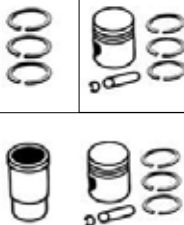
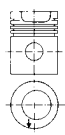
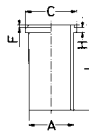
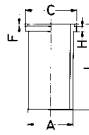
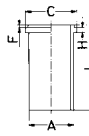
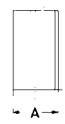
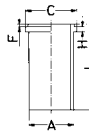
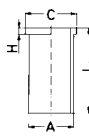
PERKINS									
1	2	3	4	5	6		7	8	
T6.354.4 16:1, 107.5 KW (146 HP) Turbocharged Diesel Direct Injection Diesel	90487.1 98,476 3,877" 6  09-8002 (Machine piston crown if necessary)	70,08 -19,08 x 108,08		38.1 x 82.8	1 958' 1 045 1 533	3,160 2,381 4,747	Std.	7259906 6197100	
			IN				 4072515 A=103,188 L=227.27 C=106.45 H+F= 3.71+1.04	5268804	
							 4408810 A=103.264 L=227.3 C=106.43 H+F= 3.86+0.84		
							 4408865 A=103,664 L=227.3 C=106.43 H+F= 3.86+0.84		
							 4468310 A=103,264 L=228.98 C=0 H= 0		
							 4702515 A=103,21 L=227.3 C=106.36 H+F= 3.7+1		
							 4702714 A=103,264 L=229 C=107.26 H= 5		

1	2	3	4	5	6	7	8
PERKINS							
			Type	 $\varnothing \times L$			
1	2	3	4	5	6	7	8
PERKINS							
T4.236 3860 cc, 70 KW (95 HP) Direct Injection Diesel Turbocharged Diesel	90845.2 98,476 3,877" 4  09-8002 (Machine piston crown if necessary)	70,08 -20,24 x 108,08	IN ALM	38.1 x 82.8	1 958' 1 045 1 533	3,160 2,381 4,747  4072515 A=103,188 L=227.27 C=106.45 H+F= 3.71+1.04  4408810 A=103.264 L=227.3 C=106.43 H+F= 3.86+0.84  4408865 A=103,664 L=227.3 C=106.43 H+F= 3.86+0.84  4468310 A=103,264 L=228.98 C=0 H= 0  4702515 A=103,21 L=227.3 C=106.36 H+F= 3.7+1  4702714 A=103,264 L=229 C=107.26 H= 5	Std. 7259906 6273105 5273100

			Type						
1	2	3	4	5	6	7	8	9	10

PERKINS



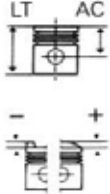

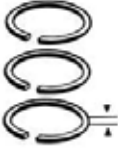


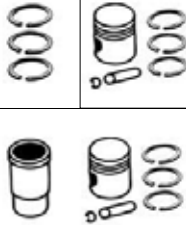


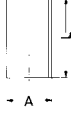
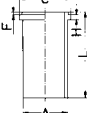
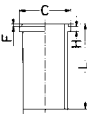
T6.354.3 16:1, 107.5 KW (146 HP) Turbocharged Diesel Direct Injection Diesel	90847.2	70,08	IN ALM	38.1	1 958'	3,160	Std.	7259906	6259901
	98,476 3,877" 6  09-8002 (Machine piston crown if necessary)	-19,08		x	x	82.8		1 045	2,381
		108,08			1 533	4,747			
							 4072515 A=103,188 L=227.27 C=106.45 H+F= 3.71+1.04		5259903
							 4408810 A=103.264 L=227.3 C=106.43 H+F= 3.86+0.84		
							 4408865 A=103,664 L=227.3 C=106.43 H+F= 3.86+0.84		
							 4468310 A=103,264 L=228.98 C=0 H= 0		
							 4702515 A=103,21 L=227.3 C=106.36 H+F= 3.7+1		
							 4702714 A=103,264 L=229 C=107.26 H= 5		



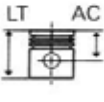




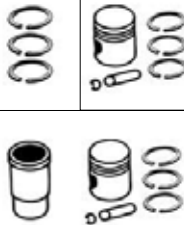
1	2	3	4	5	6	7	8
PERKINS							
			Type	$\varnothing \times L$			
1	2	3	4	5	6	7	8
4.236 3860 cc, 16:1, 43.5/59 KW (59/80 HP) Direct Injection Diesel 1977...	90849.1 98,476 3,877" 4  09-1967 (Machine piston crown if necessary)	70,6 -20,76 x 121,4		34,925 x 83,9	1 344' 2,382 1 045 2,381 1 022 2,381 1 533 6,350	Std.  4072515 A=103,188 L=227.27 C=106.45 H+F= 3.71+1.04  4408810 A=103.264 L=227.3 C=106.43 H+F= 3.86+0.84  4408865 A=103,664 L=227.3 C=106.43 H+F= 3.86+0.84  4468310 A=103,264 L=228.98 C=0 H= 0  4702515 A=103,21 L=227.3 C=106.36 H+F= 3.7+1  4702714 A=103,264 L=229 C=107.26 H= 5	7159003 6482803 5482503

			Type					
1	2	3	4	5	6	7	8	8

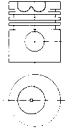

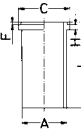
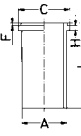
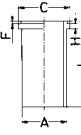
PERKINS


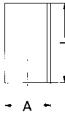
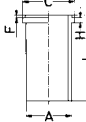
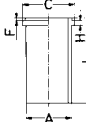
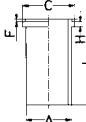
6.354.3, 6.354.4 5800 cc, 16:1, 92.3 KW (125.6 HP) Direct Injection Diesel	90844.1	70,4	IN ALM	34.925	1 344'	2,385	Std.	7061600	6061602	
	98,48	-25,97		x	1 305	2,385				
	3,877"	x		83.9	1 533	4,747				
	6	121,2								
									4072515 A=103,188 L=227.27 C=106.45 H+F= 3.71+1.04	5268605
	09-4977								4408810 A=103.264 L=227.3 C=106.43 H+F= 3.86+0.84	
	(Machine piston crown if necessary)								4408865 A=103,664 L=227.3 C=106.43 H+F= 3.86+0.84	
						4468310 A=103,264 L=228.98 C=0 H= 0				
						4702515 A=103,21 L=227.3 C=106.36 H+F= 3.7+1				
						4702714 A=103,264 L=229 C=107.26 H= 5				

			Type					
1	2	3	4	5	6	7	7	8
PERKINS								
B 4.40 3990 cc, 17:1, 66 KW (90 HP) Inyección Directa Diesel B 6.60 5985 cc, 17:1, 99.5 KW (135 HP)	10241.1 100 4/6							See Nissan-Motor Iberica
4.248.2 4067 cc, 18:1, 60 KW (81.5 HP) 1981...	10105.1 101,054 3,979" 4   10-9901	70,25 -24,27 x 121,15	A ALM IN	34.925 x 83.9	1 600' 2,500 1 005 2,500 1 533 5,000	Std.	7373903 6373905	 <p>4401316 A=103,27 L=223.7 C=0 H= 0</p>  <p>4408110 A=104,27 L=227.3 C=107.44 H+F= 3.86+0.84</p>  <p>4704512 A=104,279 L=227.3 C=107.44 H+F= 3.86+0.84</p>

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	

PERKINS

<p>6.372.3 6100 cc, 16:1, 75 KW (102 HP) Direct Injection Diesel</p>	<p>10148.1 101,054 3,979" 6</p>  <p>10-2972</p> <p>(Machine piston crown if necessary)</p>	<p>70,19 -25,76 x 120,99</p>	<p align="center">IN</p>	<p>34.925 x 83.9</p>	<p>1 394' 2,381 1 045 2,381 1 022 2,381 1 533 4,747</p>	<p>Std.</p>	<p>7427000 6427002</p>	<p>4401316 A=103,27 L=223.7 C=0 H= 0</p>  <p>4408110 A=104,27 L=227.3 C=107.44 H+F= 3.86+0.84</p>  <p>4414410 A=103,264 L=223.65 C=107.44 H+F= 3.86+0.84</p>  <p>4704512 A=104,279 L=227.3 C=107.44 H+F= 3.86+0.84</p> 
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1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
PERKINS							
4.248 4060 cc, 16:1, 53/56 KW (72/76 HP) Direct Injection Diesel	10216.1 101,054 3,979" 4  10-4971 (Machine piston crown if necessary)	70,71 -20,87 x 121,51		34.925 x 83.9	1 394' 2,381 1 045 2,381 1 022 2,381 1 533 6,350	Std.  4401316 A=103,27 L=223.7 C=0 H= 0  4408110 A=104,27 L=227.3 C=107.44 H+F= 3.86+0.84  4414410 A=103,264 L=223.65 C=107.44 H+F= 3.86+0.84  4704512 A=104,279 L=227.3 C=107.44 H+F= 3.86+0.84	7365702 6060902

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								PEUGEOT (See also Citroen)		
159 A 3.000		9.2:1	4	86.4	1581	58	79	Expert	08640.1	240
DJ5		24:1	4	92	2446			Boxer 2.5 D	90213.1	241
DK5 ATE, DJ5 T		21/24:1	4	92	2446	76/96	103/130	605, Boxer, 806	90212.1	241
DV4 TD.HDI		18:1	4	73.7	1398	50	68	206 (01 /2002...), 306 (2002...2003)	70300.1	233
DV6 ATED4		17.6:1	4	75	1560	66	92	207 1, 6 HDi 16V 12 /2005... 03 /2008, 307 1, 6 HDi 16V 03 /2005... 12 /2008, 308 1, 6 HDi 16V 09 /2007...	70510.1	234
DV6 TED4		17.6:1	4	75	1560	80	109	206 1.6 HDi 16V 04 /2004..., 207 1, 6 HDi 16V 02 /2006..., 307 1, 6 HDi 16V 02/2004..., 308 1, 6 HDi 16V 09 /2007..., 407 1.6 HDi 16V 05 /2004..., 1007 1.6 HDi 16V 01 /2007..., Partner 1.6 HDi 16V 07 /2005...	70510.1	234
DW 10 ATED 3 KAT /RHZ KAT	Citroen	17.6:1	4	85	1997	81	110	406 2.0 HDi, 806 2.0 HDi	80534.1	78
DW 10 TD KAT /RHY KAT	Citroen	17.6:1	4	85	1997	66	90	206 2.0 HDi, Partner 2.0, 406 2.0 HDi, 306 2.0 HDi, 307 HDi	80534.1	78
DW 10 TED KAT	Citroen	17.6:1	4	85	1997	81	110	306 2.0 HDi	80534.1	78
DW8	Citroen		4	82.2	1868			Expert 1.9, Partner 1.9, 206 1.9 Di, 306 1.9	80222.1	78
EW10J4			4	85	1997			406 ST 2.0 16v, 206 CC 2.0e 16v		238
EW10J4/L3			4	85				406 ST 2.0e 16v, 406 SV, 406 2.0e 16v		238
EW10J4/L4			4	85				406 Break ST 2.0e 16v, 206 GT 2.0 16v, 206 S16 16v		238
TU 1 M		9.4:1	4	72	1124	40	55	306, 106, 205 CL / GR /XL /XR, 205 Junior, 309 XE /GE, 106 XN /XR, Partner	07200.1	233
TU3		9.3:1	4	75	1360	48/51	65/70	205 GR /S /GL /XR /CJ, 405 GL, GR, SR, 309 GR, 309 Profil XL /GL, 306, 106, Partner	07524.1	233
TU5JP4		11:1	4	78.5	1.587	80	109	206		235
TUD3		22:1	4	75	1361	39	53	106 XS /SY, 205 XR /GR /SR, 306 XN /XR /XA /XRA, 306 1.4, 309 Vital /GRX /GR, 405	70508.1	234



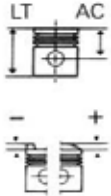
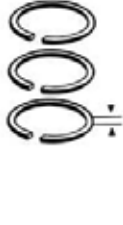

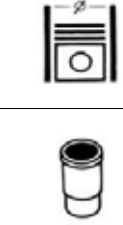

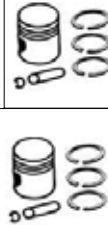

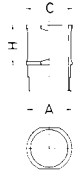

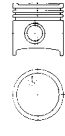
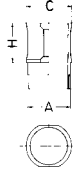
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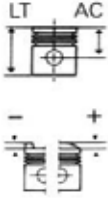

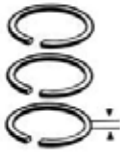


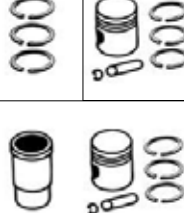
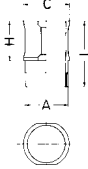
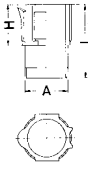
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
TUD5		23:1	4	77	1527	42	57	106	70700.1	235
U 25/651, U25 /661		22/25:1	4	93	2499	54	75	J5D 1000 /1300 /Furgon	90301.1	241
XD2-4/94		22.2:1	4	94	2304	46.5/53	63.5/72	504 GL Diesel /Break, 505 GRD /SRD, J9D /Minicar	90402.1 90406.1	242 242
XD2S		21:1	4	94	2304	54/59	73/80	505 SRD /GRD Turbo, 604 GRD /SRD Turbo, 505 USA, Tagora DT	90405.1	242
XD3		23:1	4	94	2498	51/54/56	70/73/76	505 GRD /SRD /GLD /Break /Familiare, J9 Diesel /Minicar, Jabato 4x4	90411.1	243
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XUD 9 TE	Citroen	21.8:1	4	83	1905	66	92	405, 306, 309, Boxer	80300.1	77
XUD7 (161 A)		23:1	4	80	1769	44	60	205 SRD /GLD /GRD /XLD /XRD /XAD /XTD, 309, Partner	80032.1	235
XUD7 TE		22:1	4	80	1769	66	90	405 GRD /SRD Turbo, 309 SRD Turbo, 205 D turbo	80047.1	236
XUD9		23/23.5:1	4	83	1905	48/51	65/70	205 GLD, 305 GLD, 306 SL, 309 GLD /GRX, 405 D, J5, 405 GLD /GRD Break	80374.1	238

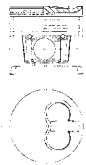
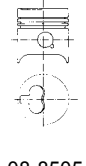
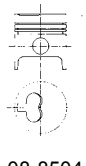
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








Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
XUD9A		23:1	4	83	1905	51	69	Partner, 405	80374.1	238
XY6B, XY7, XY8		9.3:1	4	75	1361	53	72	104 S, 104 ZS, 205 SR /GT	07784.1	234
XZ5		9.3:1	4	75	1219	42	57	104 SR	07784.1	234
ZEJ 829.90		9.2:1	4	88	1995	77/81	105/110	505 TI /STI /GTI	08819.1	240

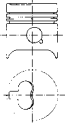
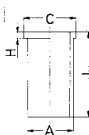

1	2	3	4	5	6	7	8	PEUGEOT	
			Type	$\varnothing \times L$					
TU 1 M 1124 cc, 9.4:1, 40 KW (55 HP) 205 CL / GR /XL /XR, 205 Junior, 309 XE /GE, 106 XN /XR 1988 ... 106 1992 ... 306 1993 ... Partner 1996 ...	07200.1 72 4  07-4979	40.05 +2.97 x 67.02	CIN	19.5 x 62 F	1 301' 1,500 1 022 2,000 1 231 3,000	 4081114 A=79.5 L=122.5 C=89.2 H= 85	Std.	7325706 6325701	5325703
DV4 TD.HDI 1398 cc, 18:1, 50 KW (68 HP) Turbo Inyección 206 (01/2002...) 306 (2002...2003)	70300.1 73,7 4  07-0702	42.94 -1.55-14.70 x 65.44	IN	25 x 60	1 603' 2,500 1 095 2,000 1 533 2,500	Std. .25 .50	7391300 6391302 7391311 6391313 7391322 6391324		
TU3 1360 cc, 9.3:1, 48/51 KW (65/70 HP) 205 GR /S /GL /XR /CJ 1988 ... 309 GR, 405 GL, GR, SR 1989 ... 306, 309 Profil XL /GL 1990 ... 106 1992 ... Partner 1996 ...	07524.1 75 4  07-8979	40,5 -1,04 x 64	CIN	19.5 x 62 F	1 301' 1,750 1 023 2,000 1 231 3,000	 4080112 A=79.5 L=135.4 C=89.2 H= 90	Std.	7323503 6313005	5313000


			Type					
1	2	3	4	5	6	7	7	8
PEUGEOT								
XY6B, XY7, XY8 1361 cc, 9.3:1, 53 KW (72 HP) 104 S, 104 ZS, 205 SR /GT XZ5 1219 cc, 9.3:1, 42 KW (57 HP) 104 SR	07784.1 75 4	40,5 x 65,5	CIN	19.5 x 65 F	1 301' 1,750 1 005 2,000 1 231 4,000	Std. 4080112 A=79.5 L=135.4 C=89.2 H= 90 		7107100 6107102 5176404 (150A, 150C Engine CITROEN) (XY6B Engine PEUGEOT) (150 A 700 Engine RENAULT)
TUD3 1361 cc, 22:1, 39 KW (53 HP) 205 XR /GR /SR 1988 ... 405 1989 ... 306 XN /XR /XA /XRA, 309 Vital /GRX /GR 1990 ... 106 XS /SY 1991 ... 306 1.4 1993 ...	70508.1 75 4	42,96 -1,5 x 68,96	IN H ATM	23 x 63	1 640' 2,250 1 005 1,750 1 533 3,000	Std. 4118111 A=79.5 L=135 C=0 H= 90 		7346006 6346001 5346003
DV6 ATED4 1560 cc, 17.6:1, 66 KW (92 HP) 207 1,6 HDi 16V 12/2005... 03/2008 307 1,6 HDi 16V 03/2005... 12/2008, 308 1,6 HDi 16V 09/2007... DV6 TED4 1560 cc, 17.6:1, 80 KW (109 HP) 206 1.6 HDi 16V 04/2004... 1007 1.6 HDi 16V 01/2007..., 207 1,6 HDi 16V 02/2006..., 307 1,6 HDi 16V 02/2004..., 308 1,6 HDi 16V 09/2007..., 407 1.6 HDi 16V 05/2004..., Partner 1.6 HDi 16V 07/2005...	70510.1 75 4	41.7 -1.16-13.2 x 65.3	IN G	26 x 61	1 603' 3,000 1 023' 1,950 1 533' 2,500	Std. .50		7395006 6395001 7395010 6395012



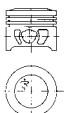
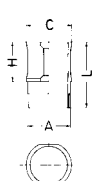
1	2	3	4	5	6	7	8	PEUGEOT	
1	2	3	Type	Ø x L					
TUD5 1527 cc, 23:1, 42 KW (57 HP) 106	70700.1 77 4  07-0002	40,37 -1,65 x 66,32 40,1 -1,65 x 66,05	H VC	23 x 60	1 394' 2,000 1 005' 1,750 1 533 3,000	Std. .40	7374404 6374406 7374415 6374410		
TU5JP4 1.587 cc, 11:1, 80 KW (109 HP) 206	78,5 4				1 394' 1,200 1 023 1,500 1 533' 2,500	Std.	7394402		
XUD7 (161 A) 1769 cc, 23:1, 44 KW (60 HP) 205 SRD /GLD /GRD /XLD /XRD /XAD /XTD 07/1993... 309 1993 ... Partner 1996 ...	80032.1 80 4  08-8505	46,8 -2 x 84,5	H	25 x 69.8	1 301' 2,000 1 005 2,000 1 533 3,000	Std. .50 .80 1.00 4421616 A=83 L=154 C=86 H= 4.5	7244506 6244501 7244510 6244512 7244521 6244523 7244532		
XID 80 XIDL 1548 cc, 22.5:1, 31.5/36 KW (43 /49 HP) 1979-1983 304 GLD Break /LD, 305 GLD /Berline /SRD Fourgonette, Fourgonette	80033.1 80 4  08-8504	42 -2 x 84.55	H	23 x 70.2	1 301' 1,750 1 005 2,000 1 533 3,000	Std. 4082816 A=84.5 L=133.5 C=100 H= 97.495	7244904 6244906 5244901		








1	2	3	4	5	6		7	8	
PEUGEOT									
XUD7 TE 1769 cc, 22:1, 66 KW (90 HP) Turbocharged Diesel 405 GRD /SRD Turbo 03/19988 ... 309 SRD Turbo 1990 ... 205 D turbo 1991 ...	80047.1 80 4	46,8 -2,2 x 84,5	IN A	28 x 68	1 608' 3,000 1 005' 2,000 1 533 3,000	Std. .50 .80	4421616 A=83 L=154 C=86 H= 4.5	7315405 7315416 7315420	6315400 6315411 6315422
DW8 1868 cc, Diesel 206 1.9 Di, 306 1.9 1996 ... Expert 1.9, Partner 1.9 1998 ...	80222.1 82,2 4							See Citroen	
XU5J (180 A) 1580 cc, 9.8/10.2:1, 77/85 KW (105 /115 HP) Fuel Injection 07/1994 205 GTI /CTI, 309 GR	08155.1 83 4	37,5 -1,45 x 67,5	ATM	22 x 66.2 F	1 301' 1,750 1 005 1,750 1 231 4,000	Std.	4086213 A=88.6 L=141 C=97 H= 95.2	7342204	6342206 5342201
XU5S 1580 cc, 9.5:1, 59/69 KW (80/94 HP) Carburetter 1984... 205 Automatic, 305 GT /GR /SR /Break /Automatic, 309 GR /SR	08156.1 83 4	37,5 -2,1 x 67,5	ATM	22 x 66.2 F	1 301' 1,750 1 005 1,750 1 231 4,000	Std.	4086213 A=88.6 L=141 C=97 H= 95.2	7342204	6342501 5342503








1	2	3	4	5	6	7	8
PEUGEOT							
<p>XU9S 1905 cc, 9.3:1, 77 KW (105 HP) 1984... 305, 309, 405</p> <p>XU9S 1905 cc, 9.3:1, 72/77 KW (98/105 HP) Catalizador Inyección 08/1988... 309, 405</p>	<p>08157.1 83 4</p>   <p>08-8901</p>	<p>37,5 x 67,5</p>	<p>ATM</p>	<p>22 x 66,2 F</p>	<p>1 600' 1,500 1 005 1,500 1 231 4,000</p> 	<p>Std.</p> <p>4086213 A=88.6 L=141 C=97 H= 95.2</p>	<p>7341902 6341904</p> <p>5341906</p>
<p>XU5J 1580 cc, 9.8:1, 85 KW (115 HP) Inyección 1988... 205</p> <p>XU9JA, XU92C 1905 cc, 9.6:1, 77/81 KW (105/110 HP) 1986-89... 309, 405</p> <p>XU9JA, XU92C 1905 cc, 9.6/10.2:1, 93/95.5 KW (127 /130 HP) Inyección 1987... 205, 405 SRI, 605 SLI 309 GTI</p>	<p>08301.1 83 4</p>   <p>08-9302</p>	<p>37,5 -9 x 67,5</p>	<p>ATM</p>	<p>22 x 66,2 F</p>	<p>1 600' 1,500 1 005 1,500 1 231 4,000</p> 	<p>Std.</p> <p>4086213 A=88.6 L=141 C=97 H= 95.2</p>	<p>7341902 6342103</p> <p>5342105</p>
<p>XU5JPZ 1580 cc, 9.25:1, 65 KW (88 HP) Inyección Catalizador 07/1993 405 GL, GR, SR 306 XR /XT 07/1993...</p>	<p>08317.1 83 4</p>   <p>08-8901</p>	<p>37.5 -1.95 x 67.5</p>	<p>ATM</p>	<p>22 x 66.2 F</p>	<p>1 301' 1,500 1 005 1,500 1 232 3,000</p> 	<p>Std.</p> <p>4086213 A=88.6 L=141 C=97 H= 95.2</p>	<p>7350000 6350002</p> <p>5350004</p>



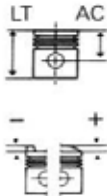

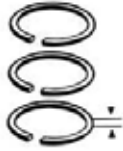


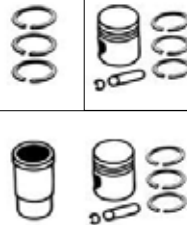




1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
PEUGEOT							
XUD 9 TE 1905 cc, 21.8:1, 66 KW (92 HP) Turbo Intercooler 306, 309, 405, Boxer	80300.1 83 4						See Citroen
XUD9 1905 cc, 23/23.5:1, 48/51 KW (65 /70 HP) 205 GLD, 305 GLD, 306 SL, 309 GLD /GRX 405 GLD /GRD Break, J5 10/1992 ... 405 D 1982 XUD9A 1905 cc, 23:1, 51 KW (69 HP) 405 1988 ... Partner 1996 ...	80374.1 83 4  08-8403	46,8 -2,2 x 84,3	H	25 x 72	1 301' 2,000 1 005 2,000 1 533 3,000	Std. .40 .50 .60 .80  4419516 A=86 L=153.5 C=89 H= 4.8  4419612 A=86 L=153.5 C=0 H= 0	7225201 6225203 7225223 6225225 7225212 6225214 7225234 6225236 7225245 6225240
EW10J4 1997 cc, 206 CC 2.0e 16v 406 ST 2.0 16v EW10J4/L3 406 2.0e 16v 01/2000...09/2000 406 ST 2.0e 16v, 406 SV 04/1999... EW10J4/L4 206 S16 16v, 406 Break ST 2.0e 16v 04/1999... 206 GT 2.0 16v 04/1999...09/2000	85 4				1 640' 1,200 1 023 1,500 1 232 2,500	Std.	7390504

1	2	3	4	5	6		7	8	
1	2	3	4	5	6		7	8	
PEUGEOT									
<p>DW 10 ATED 3 KAT /RHZ KAT 1997 cc, 17.6:1, 81 KW (110 HP) Intercooler Turbocharged Diesel 406 2.0 HDi 02/99 ... 806 2.0 HDi 08/99 ...</p> <p>DW 10 TD KAT /RHY KAT 1997 cc, 17.6:1, 66 KW (90 HP) Turbocharged Diesel Intercooler 307 HDi, 406 2.0 HDi 02/99 ... 306 2.0 HDi, Partner 2.0 06/99 ... 206 2.0 HDi 12/99 ...</p> <p>DW 10 TED KAT 1997 cc, 17.6:1, 81 KW (110 HP) Turbocharged Diesel Intercooler 306 2.0 HDi 06/99 ...</p>	80534.1 85 4							See Citroen	
<p>XU10J2 1998 cc, 9.5:1, 90 KW (123 HP) Inyección Catalizador 306 XSI, 405 SRI /STI /Break, 605 SRI 1993 ... 806 SRI /SVI 1994 ...</p>	08607.1 86 4  08-9501	40 -5,02 x 65	ATM	22 x 62 F	1 600' 1,500 1 023 1,750 1 231 3,000	Std. .25 .60	7353905 7352914 7352925	6352905 6352916 6352920	

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
PEUGEOT							
XU10 J4 1998 cc, 10.4:1, 112 KW (152 HP) Catalizador Inyección 4 Válvulas 1993... 306 16V, 405 MI16	08837.1 86 4  08-9602	39.1 -2.74-3.04 x 64.1	ATM	23 x 53	1 600' 1,500 1 023 1,750 1 231 3,000	Std.	7353905 6353900
159 A 3.000 1581 cc, 9.2:1, 58 KW (79 HP) 10/95... Expert	08640.1 86,4 4  08-9405	33,3 -2,3 x 72,8		22 x 63	1 354' 1,500 1 955 1,750 1 231 3,000	Std. .40 .60	7348003 6348005 7348014 6348016 7348025 6348020
ZEJ 829.90 1995 cc, 9.2:1, 77/81 KW (105/110 HP) Fuel Injection 05/1979-1986 505 TI /STI /GTI	08819.1 88 4  08-8603	40.5 +1.55 x 67.05	CIN	23 x 75 F	1 600' 1,750 1 005 2,000 1 231 4,000 	Std. 4083214 A=93,55 L=140 C=104.2 H= 93	7253304 6253306 5253301



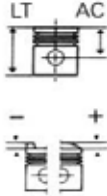

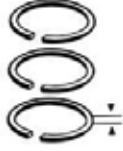


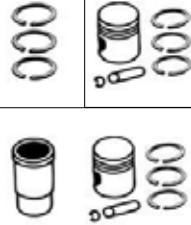
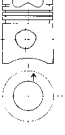
1	2	3	4	5	6		7	8	
PEUGEOT									
 DK5 ATE, DJ5 T 2446 cc, 21/24:1, 76/96 KW (103 /130 HP) Turbocharged Diesel Intercooler 1993... 806, Boxer 605	90212.1 92 4   09-0002	49,84 -2,3 x 82 49,47 -2,3 x 82	Type A G I N V C	34 x 68	1 948' 1 349' 1 533	3,000 1,750 3,500	Std. .50	7376600 6376602 7376611 6376613	
DJ5 2446 cc, 24:1, Diesel 1994... Boxer 2.5 D	90213.1 92 4   09-0102	49,9 -1,9 x 80 49,7 -1,9 x 80	H V C	34 x 58	1 600' 1 349' 1 533	2,250 2,000 3,000	Std. .50	7381205 6381200 7381216 6381211	
U 25/651, U25/661 2499 cc, 22/25:1, 54 KW (75 HP) 10/1983... J5D 1000 /1300 /Furgon	90301.1 93 4   09-8901	52,75 -5,45 x 95	H	30 x 78.8	1 600' 1 045' 1 533	2,500 2,000 4,000	Std. .50 .75 4420216 A=97,5 L=163 C=99 H= 5 4704910 A=97,5 L=163 C=99 H= 5	7293705 6293700 7293716 6293711 7293720 6293722	<p>Retocar la altura de compresión si es necesario.</p> <p>Atención al espacio neutro.</p> <p>Ø 93 = +0.50/+0.55</p> <p>Ø 93.5 = +0.44/+0.49</p> <p>Ø 93.75 = +0.41/+0.46</p>

1	2	3	4	5	6		7	8	
PEUGEOT									
XD2-4/94 2304 cc, 22.2:1, 46.5/53 KW (63.5 /72 HP) 1976-1982 504 GL Diesel /Break, 505 GRD /SRD, J9D /Minicar	90402.1 94 4   09-1978	57,42 -1,75 x 99,92	H IN	28 x 81	1 301' 2,000 1 005 2,000 1 533 4,000	Std. .40 .60  4411315 A=97 L=173 C=98 H= 5 4414620 A=97 L=165.80 C=99.5 H= 3.9		7061106 6061101 7061121 6061123 7061132 6061134	
XD2S 2304 cc, 21:1, 54/59 KW (73/80 HP) Turbocharged Diesel 02/1979... 505 SRD /GRD Turbo, 505 USA, 604 GRD /SRD Turbo, Tagora DT	90405.1 94 4   09-8304	57,37 -1,9 x 99,87	IN	30 x 78.8	1 690' 3,000 1 005' 2,000 1 533 4,000	Std. .40 .60 4414620 A=97 L=165.80 C=99.5 H= 3.9		7221200 6221202 7221211 6221224 7221233 6221235	
XD2-4/94 2304 cc, 22.2:1, 46.5/53 KW (63.5 /72 HP) 1976-1982 504 GL Diesel /Break, 505 GRD /SRD, J9D /Minicar	90406.1 94 4   09-1978 With pin Ø 30 mm (1982...)	57,42 -1,75 x 99,92	H IN	30 x 78.8	1 301' 2,000 1 005 2,000 1 533 4,000	Std. .40 .60 4414620 A=97 L=165.80 C=99.5 H= 3.9		7061106 6224400 7061121 6224422 7061132 6224433	

			Type	 Ø x L							
1	2	3	4	5	6		7	7	8		
PEUGEOT											
XD3 2498 cc, 23:1, 51/54/56 KW (70/73 /76 HP) 02/1982... 505 GRD /SRD /GLD /Break /Famiale, J9 Diesel /Minicar, Jabato 4x4	90411.1 94 4   09-8304	53,92 -1,75 x 96,42	H	30 x 78.8	1 301' 2,000 1 005 2,000 1 533 4,000	Std. .40 .60	4414620 A=97 L=165.80 C=99.5 H= 3.9	7061106 7061121 7061132	6251604 6251615 6251626		
XD3T/TE 2498 cc, 21:1, 66/81 KW (90/110 HP) Turbo Intercooler 1983... 505 GTD Turbo, 604 GTD Turbo	90414.1 94 4   09-9705	53,87 -2,27 x 96,37	G IN	32 x 78.8	1 690' 3,000 1 005' 2,000 1 533 4,000	Std. .40 .60	4414620 A=97 L=165.80 C=99.5 H= 3.9	7221200 7221222 7221233	6361305 6361316 6361320		

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								R.V.I.		
Compresor 4.236	Perkins		1	100 98,476					09820.4	245
Compresor 3.536	Knorr		1/2 6	78 130		202	275	D2626 Turbo 300	13081.1	

			Type	 $\varnothing \times L$					
1	2	3	4	5	6	7	7	8	
R.V.I.									
Compresor	100 1				1 005 2,500 1 005 2,500 1 005 2,500 1 533 5,000	Std. .50 1.00		7393002 7393013 7393024	
Compresor For engines MIDS /R 0620.30 0620.45	07801.1 78 1/2							See Knorr	
BS 36, BS36A 11946 cc, 15.5:1, 202 KW (275 HP) Turbocharged Diesel D 300 D 2626 Turbo 300, D 270, D 270 T, D 3464 Turbo 300, D 3582 Turbo 300, D 3784 Turbo 300, D 38 Turbo 300, DR 270 T	13081.1 130 6  13-1976 NOTA: AB - 6430012 BC - 6430023	90,65 -23,85 x 151,75	IN	52 x 110	1 008' 3,500 1 005 3,000 1 005 3,000 1 232 6,000	Std. Std.		7430006 6430023 7430006 6430012	
4.236 Serie 350, 380, 440, 450, 480, 500, 530, 550, 560 09/1979...	09820.4 98,476							See Perkins	

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								RENAULT (See also Fiat, M W M)		
129 A 700		9.3:1	4	75	1218	42	57	R 14 L, R 14 TL, R 14 GTL	07784.1	252
150 A 700		9.3:1	4	75	1360	51	70	R 14 TS, R 14 GTS	07784.1	252
688-01/02/03/10 /11/12/91 /93, C7, C1E.F.15		8.3/8.5/9.25/9.5:1	4	70	1108	25/39	38/53	R 10, R 10 Major, R 10-1100, R 8 S, R 8 Ts, R 8-Major-1100, R 6-TL-1100, Caravelle 1100, R 1132, R 1133, R 1136, R 1181, R 1190, R 2132, R 2132 A, R 2133, R 2134, R 7 GTL, R 6 GTL, R 5 GTL, R 5 TL, R 5 Five, R 4 TL, R 4 F6-Furgonette, R 9 C, R 9 TC, R 9 GTC, R 11 TC, R 11 GTC, Renault Express Furgonette, R 11 TCE, R 9 TCE, Estafette 800, Estafette 1000	07144.5	250
800-02, 800-03		8:1	4	58	845	25	34	R 4 Super, R 4 L, R 6-850, R 1123, R 2106, R 1180, R 6 L	05808.1	250
800-10		8:1	4	58	845	26.5	36	R 4 L, R 4 Safari, R 4 Rodeo, R 1221, R 5 L, R 4 TL	05808.1	250
810,810-01/02 /03/05/06/07 /10, C7, F7		8/8.5/9.5:1	4	73	1289	32/40/44 /47	43/54/60 /64	R 12 TS, R 12 L, R 12 TL, R 12 TR, R 10-1300, R 15, R 15 TL, R 15 GTL, R 5 LS, R 5 TS, Estafette 1300, R 1170, R 1171, R 1177, R 1192, R 1224, R 1130, R 2136, R 2136A, R 2137, R 12 Society, R 2360, R 5 Automatic	07389.4	251
8140.21, 8144.21	Fiat	22:1	4	93	2445	68	92	Master B 90-35 D	90304.1	98
8140.23.3700 Euro 2	Fiat	18.5:1	4	94.4	2798	85	115	Master	90440.1	99
8140.27.2700	Fiat	18.5:1	4	93	2499	68	92	Master B 90-35 D	90305.1	98
829 E 7		9.2:1	4	88	1995	61	85	Trafic P862 Minicar, P 1200, P 1400	08819.1	261
829.00/01/702		9.2:1	4	88	1995	76.5/80	104/109	R 18 TX, R 18 GTX, R 18 Break, R 18 Automatic, Fuego TX, Fuego GTX, Fuego GTL, Fuego GTS, R 1363, R 20 TS, R 20 LS, R 20 Automatic, R 135 300	08819.1	261
840, 847-20, C1J, C2J		8.3/9.2/9.25/9.5:1	4	76	1397	40/53	55/72	Supercinco GTS, Renault Express Furgonette, R11 GTL /TSE /GTS, R12 TS /1400 /GTL, R 9 TSE, R 9 GTL, R9 GTL /TSE /TLE, R5 GTL /TX, R18 TL /GTL, Fuego TL /GTL, R 19 TR	07768.1	253
841-C7-25		9.3:1	4	79	1647	58/61	79/83	R 18 TS, R 18 GTS, R 18 GTL, R 1341, Fuego	07900.1	257

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
852-A-700, J8S-A-704, J8S-G-706		21.5:1	4	86	2068	47/49 /54.5	64/67/74	R 18 TD, R 18 GTD, R 18 Break, R 18 Automatic, R 20 TD, R 21 TD, R 21 GTD, R 25 TD, T 423, PA 23, T 800 D, P /T 1000 D, P /T 1200 D, P 1400 D, R 18 4x4, R 18 Variable, R 1344, R 1354, R 2354, R 20 GTD, R 1275, R 135-400, R 21 Nevada GTD, R 25 GTD, Traffic P /T 313, P 323, PA 93	80605.1	260
C1G		9.25:1	4	71.5	1237	40.5/41	55/56	R 5 GTL, R 9 C, R 9 TC, R 9 GTC, R 11 TC, R 11 GTC	07180.1	251
C1J		7:1	4	76	1397	77/84.5	105/115	R 11 Turbo, R 9 Turbo, R 5 GT Turbo	07602.1	253
D 225-3	M W M	18:1	3	95	2550	37	50	Tractor 51, Tractor 91, Tractor 96, Tractor 361, Tractor 551	90501.1	155
D 227	M W M	18:1	4	100	3760	48	65	Tractor 461, 651S, 651S, 656S, 681S, 681S /4S	10179.1	155
D 227	M W M	18:1	4	100	3760	48	65	Tractor 461, 651S, 6515 /4S, 656S, 681S, 681S /4S	10251.1	156
D 227	M W M	18:1	6	100	5640	70	95	Tractor 921, 951.4, 981, 113.12 TS, 113.12 TX, 113.14 TS, 113.14 TX	10179.1	155
D 227	M W M	18:1	6	100	5640	70	95	Tractor 921, 951.4, 981, 113.12 TS, 113.12 TX, 113.14 TS, 113.14 TX	10251.1	156
D 325	M W M	18:1	2	95	1700	22/23.5	30/32	Tractor 50, Tractor 53	90501.1	155
D 325	M W M	18:1	3	95	2550	31/34	42/46	486, 460 S, 456, 421, 86, 80, 70, 60 S, 60, Tractor 56	90501.1	155
D 325	M W M	18:1	4	95	3400	51	69	Tractor 94	90501.1	155
D 325	M W M	18:1	6	95	5100	59/66 /67.5/73	80/90/92 /99	651-4, Tractor 498, Tractor 98	90501.1	155
D 327	M W M	18:1	2	100	1885	22.5/24 /25.5	30.5/33 /35	Tractor 50-S, 301, 351 M	10179.1	155
D 327	M W M	18:1	2	100	1885	22.5/24 /25.5	30.5/33 /35	Tractor 50-S, 301, 351 M	10251.1	156
D 327	M W M	18:1	3	100	2827	31/34/37 /39	42/46/50 /53	Tractor 80 S, Tractor 361, 421, 461 M, 461 S, 480 S, 32-50 V, 32-50 F, 32-60 V-F	10179.1	155
D 327	M W M	18:1	3	100	2827	31/34/37 /39	42/46/50 /53	Tractor 80 S, Tractor 361, 421, 461 M, 461 S, 480 S, 32-50 V, 32-50 F, 32-60 V-F	10251.1	156
D7F			4	69				700, 701, 702, 703, 704, 710, 720, 722, 726, 730, 746, Kangoo 1.2, Clío II 1.2, Clío 1.2		250
E5F		9.25:1	4	75.8	1171	44	60	Clío	07582.1	252

R



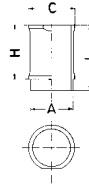


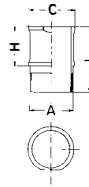
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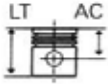







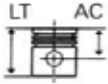



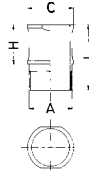
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
E6J-A700		9.5:1	4	75.8	1390	59	80	Clio 1.4, R19 TS /GTS /TSE /Chamade	07601.1	253
E7J		9.5:1	4	75.8	1390	55	75	Kangoo	07601.1	253
F2N A 700, F2N E 708		10:1	4	81	1721	59/60	80/82	R 9 GTX, R 9 TXE, R 11 GTX, R 11 TXE, R 11 Electronic, R 19	08129.1	258
F2N C 710		10:1	4	81	1721	66	90	R 9 GTX, R 9 TXE, R 11 GTX, R 11 TXE, R 21 TS, R 21 GTS, R 21 RS, R 21 TSE, R 21 Nevada GTS, R 5 GTX, R 5 Baccara	08129.1	258
F3 N		9.5:1	4	82.7	1721	55	75	R 9 GTX, R 5 GTE, R 11 GTX, R 19, R 21	08136.1	259
F3P-678		9.8:1	4	82.7	1784	81/83	110/113	Clio 1.8, Laguna, R 19 1.8	08158.1	259
F3R-722		9.8:1	4	82.7	1998	85	115	Laguna 2.0	08159.1	259
F8 QT-740/768 /610/784/785		20.5:1	4	80	1870	68	93	R 19, Megane	80007.1	257
F8M		22.5:1	4	78	1595	40.5	55	R 5 D, R 5 GTD, R 9 GTD, R 9 TDE, R 11 TD, R 11 GTD, R 11 TDE, R 5 TD, Renault EXPRESS, R9 TD, Supercinco Diesel	70802.1	256
F8Q 732/742		22.5:1	4	80	1870	44/48	60/65	R 21 GSD, Clio 1.9 DRT, Kangoo, R 19 TD, R 19 GTD, R 19 TDE	80048.1	258
F9Q 730/734		18.3:1	4	80	1870	73	100	Megane DTI, Megane Coupe, Scenic	80016.1	257
F9Q, 800, 812		18.3:1	4	80	1870	88	120	Megane II, 1.9 dCi, 11 /2002...	80020.1	258
F9Q, Euro 3, 750		18.3:1	4	80	1870	88	120	Laguna 1.9 dCi, 03 /2001..., Meganell, 1.9 dCi, 10 /2002 ...	80020.1	258
G9T, 700, 702, 703, 704, 706, 707, 708, 709, 712, 742, 743, 744			4	87	2188	110	150	Espace 2.2 dCi 16 V 11 /2002..., Laguna dCi 16 V. 10 /2001..., Vel Statis 2.2 dCi 06 /2002...	80705.1	261
G9T, 710, 720, 722, 750		18:1	4	87	2188	66/110	90/150	Master T28 2.2 dCi 16 V., Master II dCi 16 V. 09 /2000...	80706.1	261
G9U 720, 724, 726, 736, 750, 754		21:1	4	89	2463	84		Master II 2.5 dCi	80903.1	262
IAP 810-R-99		8.5:1	4	73	1289	40	54	R 12 Society, R 2137, R 2136A, R 2136, R 1330, R 1224, R 1192, R 1177, R 1171, R 1170, Estafette 1300, R 5 TS, R 12 TS, R 12 L, R 12, R 5 LS, R 15 GTL, R 15 TL, R 12 TR, R 12 TL, R 15, R 10-1300, R 5 Automatic, R 2360	07389.4	251


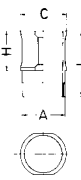
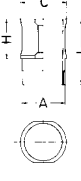


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




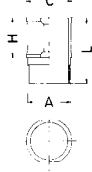


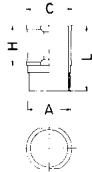
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
J 6 R		9.2:1	4	88	1995	75/81	103/110	R 25 TS, R 25 GTS, Espace 2000 GTS, Espace 2000 TSE	08819.1	261
J8S 714		21.5:1	4	86	2068	62.5/65.5	85/88	R 18 TD, R 20 TD, R 21 TD, R 25 TD, R 30 TD, Fuego TD, Espace TD, Nevada	80610.1	260
J8S-760		21.5:1	4	86	2068			Trafic turbo, Safrane Turbo, Espace Turbo, Master Turbo	80611.1	260
K9K 702/722		18.8:1	4	76	1461	60	82	Clio dCi 06 /01..., Megane cDi 11 /02...	70606.1	256
K9K 700/704		18.8:1	4	76	1461	48	65	Clio dCi 05 /01..., Kangoo dCi 12 /01...	70606.1	256
K9K-Clio			4	76				Clio dCi 05 /01...	70610.1	256
Kangoo dCi			4	76				Motor K9K 700 /704	70610.1	256
S 8 U, 8140-58U / -68 U	Fiat	22:1	4	93	2445	50/51	68/40	Renault Master T30 D, T 35 D, P 30 D, P 35 D, T 1400 D, P /T 1800, B 70	90300.1	96
S8W.732 /742, 8140.67.2500, S8750/753	Fiat	22:1	4	93	2499	55	75	Master	90302.1	-

R



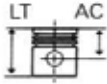


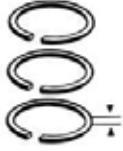







1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
RENAULT							
800-02, 800-03 845 cc, 8:1, 25 KW (34 HP) 1969... R 1123, R 1180, R 2106, R 4 L, R 4 Super, R 6 L, R 6-850 800-10 845 cc, 8:1, 26.5 KW (36 HP) 1972... R 1221, R 4 L, R 4 Rodeo, R 4 Safari, R 4 TL, R 5 L	05808.1 58 4   05-2977	30 x 64	Type CIN	16 x 49 F	1 301' 1,750 1 005 2,000 1 231 3,500 	Std. 4053615 A=62,5 L=126.1 C=72.8 H= 112.8	7431303 6431305 5431300
D7F 700, 701, 702, 703, 704, 710, 720, 722, 726, 730, 746 Clio 1.2 01/1996... Kangoo 1.2 03/1998... Clio II 1.2 09/1998...	69 4				1 344' 1,500 1 023 1,500 1 232 2,500	Std.	7390401
688-01/02/03/10/11/12/91 /93, C7, C1E.F.15 1108 cc, 8.3/8.5/9.25/9.5:1, 25 /39 KW (38/53 HP) Caravelle 1100, Estafette 1000, Estafette 800, R 10, R 10 Major, R 10-1100, R 11 GTC, R 11 TC, R 11 TCE, R 1132, R 1133, R 1136, R 1181, R 1190, R 2132, R 2132 A, R 2133, R 2134, R 4 F6-Furgonette, R 4 TL, R 5 Five, R 5 GTL, R 5 TL, R 6 GTL, R 6-TL-1100, R 7 GTL, R 8 S, R 8 Ts, R 8-Major-1100, R 9 C, R 9 GTC, R 9 TC, R 9 TCE, Renault Express Furgonette	07144.5 70 4   07-1177	40 x 68	CIN	18 x 62 F	1 301' 1,750 1 005 2,000 1 236 3,500 	Std. 4062413 A=75,5 L=135 C=85.8 H= 94.85	7330400 6330402 5330404

1	2	3	4	5	6	7	8
RENAULT							
<p>C1G 1237 cc, 9.25:1, 40.5/41 KW (55 /56 HP) R 11 GTC, R 11 TC, R 5 GTL, R 9 C, R 9 GTC, R 9 TC</p>     	<p>07180.1 71,5 4</p>   <p>07-8601</p>	<p>37,5 x 62,5</p>	<p>CIN</p>	<p>20 x 62 F</p>	<p>1 301' 1,750 1 005 2,000 1 236 4,000</p> 	<p>Std. 4080414 A=78,5 L=134 C=88 H= 95</p>	<p>7330606 6330601 5330603</p>
<p>810,810-01/02/03/05/06/07 /10, C7, F7 1289 cc, 8/8.5/9.5:1, 32/40/44 /47 KW (43/54/60/64 HP) 1968... Estafette 1300, R 10-1300, R 1130, R 1170, R 1171, R 1177, R 1192, R 12 L, R 12 Society, R 12 TL, R 12 TR, R 12 TS, R 1224, R 15, R 15 GTL, R 15 TL, R 2136, R 2136A, R 2137, R 2360, R 5 Automatic, R 5 LS, R 5 TS</p> <p>IAP 810-R-99 1289 cc, 8.5:1, 40 KW (54 HP) 1980... R 12 Estafette 1300, R 10-1300, R 1170, R 1171, R 1177, R 1192, R 12 L, R 12 Society, R 12 TL, R 12 TR, R 12 TS, R 1224, R 1330, R 15, R 15 GTL, R 15 TL, R 2136, R 2136A, R 2137, R 2360, R 5 Automatic, R 5 LS, R 5 TS</p>     	<p>07389.4 73 4</p>   <p>07-5977</p>	<p>37.5 +0.25 x 62.75</p>	<p>CIN</p>	<p>20 x 62 F</p>	<p>1 301' 1,750 1 005 2,000 1 232 4,000</p> 	<p>Std. 4001712 A=78.5 L=134 C=88 H= 95</p>	<p>7330805 6330800 5330802</p>



1	2	3	4	5	6	7	8
1	2	3	Type	Ø x L	6	7	8
RENAULT							
<p>129 A 700 1218 cc, 9.3:1, 42 KW (57 HP) R 14 GTL, R 14 L, R 14 TL</p> <p>150 A 700 1360 cc, 9.3:1, 51 KW (70 HP) R 14 GTS, R 14 TS</p>	<p>07784.1</p> <p>75</p> <p>4</p>  <p>07-8979</p>	<p>40,5</p> <p>x</p> <p>65,5</p>	<p>CIN</p>	<p>19.5</p> <p>x</p> <p>65</p> <p>F</p>	<p>1 301' 1,750</p> <p>1 005 2,000</p> <p>1 231 4,000</p>  	<p>Std.</p> <p>4080112</p> <p>A=79.5</p> <p>L=135.4</p> <p>C=89.2</p> <p>H= 90</p> <p>4078911</p> <p>A=79.5</p> <p>L=122.5</p> <p>C=89.2</p> <p>H= 85</p>	<p>7107100 6107102</p> <p>5176404</p> <p>(150A, 150C Engine CITROEN) (XY6B Engine PEUGEOT) (150 A 700 Engine RENAULT)</p> <p>5107104</p> <p>(129 /5 Engine CITROEN) (XZ25 Engine PEUGEOT) (129 A 700 Engine RENAULT)</p>
<p>E5F 1171 cc, 9.25:1, 44 KW (60 HP) Inyección Catalizador 1992-1994 Clio</p>	<p>07582.1</p> <p>75,8</p> <p>4</p>  <p>07-9902</p>	<p>35.08</p> <p>-1.23</p> <p>x</p> <p>56.4</p>	<p>CIN</p>	<p>19</p> <p>x</p> <p>60</p> <p>F</p>	<p>1 394' 1,500</p> <p>1 095 1,750</p> <p>1 236 3,000</p> 	<p>Std.</p> <p>4086423</p> <p>A=80,6</p> <p>L=130</p> <p>C=90.2</p> <p>H= 91.5</p>	<p>7298406 6368806</p> <p>5368801</p>



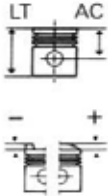

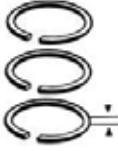



1	2	3	4	5	6	7	8
RENAULT							
<p>E6J-A700 1390 cc, 9.5:1, 59 KW (80 HP) Catalizador Inyección R19 TS /GTS /TSE /Chamade 1989 ... Clio 1.4 1991 ...</p> <p>E7J 1390 cc, 9.5:1, 55 KW (75 HP) Catalizador Inyección 1997... Kangoo</p>	<p>07601.1 75,8 4</p>   <p>07-9402</p>	<p>31,7 x 52,7</p>	<p>CIN</p>	<p>19 x 60 F</p>	<p>1 394' 1,500 1 095 1,750 1 236 3,000</p> 	<p>Std. 4086423 A=80,6 L=130 C=90.2 H= 91.5</p>	<p>7298406 6344505 5344500</p>
<p>C1J 1397 cc, 7:1, 77/84.5 KW (105/115 HP) Turbocharged Diesel R 5 GT Turbo R 11 Turbo, R 9 Turbo</p>	<p>07602.1 76 4</p>   <p>07-8807</p>	<p>37.5 +1 x 63.5</p>	<p>CIN</p>	<p>20 x 65 F</p>	<p>1 301' 1,750 1 005 2,000 1 236 4,000</p> 	<p>Std. 4076413 A=80,6 L=134 C=90.2 H= 95</p>	<p>7331203 6331404 5331406</p>
<p>840, 847-20, C1J, C2J 1397 cc, 8.3/9.2/9.25/9.5:1, 40 /53 KW (55/72 HP) R 19 TR, R 9 GTL, R 9 TSE, R11 GTL /TSE /GTS, Renault Express Furgonette, Supercinco GTS Fuego TL /GTL, R12 TS /1400 /GTL, R18 TL /GTL, R5 GTL /TX, R9 GTL /TSE /TLE</p>	<p>07768.1 76 4</p>   <p>07-4977</p>	<p>37,5 x 64</p>	<p>CIN</p>	<p>20 x 65 F</p>	<p>1 301' 1,750 1 005 2,000 1 236 4,000</p> 	<p>Std. 4076413 A=80,6 L=134 C=90.2 H= 95</p>	<p>7331203 6331205 5331200</p>

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


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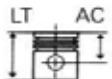


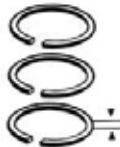




K9K 712 Euro 3 1461 cc, 74 KW (100 HP) Clio II 1.5 dCi 01/04... Turbo intercooled	70608.1 76	41,7 -0,25 - 0,43 - 14		26 x 60	1 1 1	643' 095 533	2,000 2,000 2,500	Std. .50	7389502 6395804 7389513 6395815
K9K 718 Euro 4 1461 cc 62KW (84 HP) Kangoo Express 06/05... Turbo intercooled	 	x 66	IN G						
K9K 724 Euro 4 1461 cc 18,8:1 63 KW (86 HP) Megane II 1.5 dCi 05/05 ... Megane II Coupé-Cabriolet Megane II Estate 1.5 dCi Megane II Saloon Scénic II 1,5 dCi Turbo intercooled	7-1001								
K9K 728 Euro 3 1461 cc, 74 KW (101 HP) Grand Scénic 1.5 dCi, 04/04... Megane II 1.5 dCi, 01/07... Megane II Estate , 02/04... Megane II Saloon 1.5 dCi Scénic II 1.5 dCi , 11/03... Turbo intercooled									
K9K 729 Euro 3 1461 cc, 74 KW (101 HP) Grand Scénic 1.5 dCi, 04/04.. Grand Scénic 1.5 dCi 10/03... Megane II 1.5 dCi 01/07... Megane II Estate 01/07... Scénic II 1.5 dCi 01/07... Turbo Intercooled									
K9K 760 Euro 4 1461 cc, 18,8:1 50 KW (68 HP) Clio III 1.5 dCi 06/05... Turbo.									
K9K 766 Euro 4 1461 cc, 17,9:1 63 KW (86 HP) Clio Grandtour 1.5 dCi, 02/08... Clio III 1.5 dCi , 06/05... Modus 1.5 dCi, 12/04 ... Turbo intercooled									
K9K 802 Euro 4 1461 cc, 15,6:1 63 KW (86 HP) Kangoo 1.5 dCi, Kangoo Express 1.5 dCi 02/08 ... Turbo intercooled									

			Type					
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









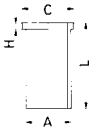
RENAULT










<p>K9K 732 EURO 4 1461 CC, 18,8:1 78 KW (106 HP) Megane II 1.5 dCi 05/05... Megane II Coupé 03/06--- Megane II Estate 05/05 ... Megane II Saloon 1.5 dCi Scénic II 1,5 dCi Turbo Intercooled</p>	<p>70609.1 76 4</p>  	<p>41,7 -0,25 - 0,43 - 12,8 x 66</p>	<p>IN G</p>	<p>26 x 60</p>	<p>1 643' 1 095 1 533</p>	<p>2,000 2,000 2,500</p>	<p>Std. .50</p>	<p>7389502 6396106 7389513 6396110</p>
<p>K9K 764 Euro 4 1461 cc 15,6:1 78 KW (106 HP) Clio Grandtour 1.5 dCi 02/08.. Clio III 1.5 dCi 06/05... Modus 1.5 dCi 05/05 ... Turbo intercooled</p>	<p>7-1001</p> 							
<p>K9K 780 Euro 4 1461 cc 15,6:1 76 KW (103 HP) Laguna III 1.5 dCi ,10/07... Laguna III Grandtour 1.5 dCi Turbo intercooled</p>								
<p>K9K 804 Euro 4 1461 cc 78 KW (106 HP) Kangoo 1.5 dCi 02/08... Turbo intercooled</p>								
<p>K9K 806 Euro 4 1461 cc 76 KW (103 HP) Kangoo Be Bop 1,5 dCi 02/09... Kangoo Express 1.5 dCi, 02/08... Turbo intercooled</p>								

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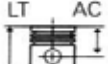



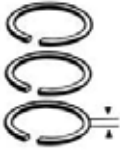







									
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



<p>K9K 702/722 1461 cc, 18.8:1, 60 KW (82 HP) Turbo Intercooler Common Rail Clio dCi 06/01... Megane cDi 11/02...</p>	<p>70606.1 76 4</p>   7-0601	<p>41.78 -0.3-0.5-14 x 66</p>	<p>IN</p>	<p>25 x 60</p>	<p>1 643' 2,000 1 095 2,000 1 533 2,500</p>	<p>Std. .50</p>	<p>7389502 6389504 7389513 6389515</p>
<p>K9K 700/704 1461 cc, 18.8:1, 48 KW (65 HP) Turbo Common Rail Clio dCi 05/01... Kangoo dCi 12/01...</p>	<p>70610.1 76 4</p>   7-0601	<p>41.78 -0.3-0.5-14 x 66</p>	<p>IN</p>	<p>26 x 60</p>	<p>1 643' 2,000 1 095 2,000 1 533 2,500</p>	<p>Std. .50</p>	<p>7389502 6389600 7389513 6389611</p>
<p>K9K-Clio cc, Clio dCi 05/01...</p>	<p>70610.1 76 4</p>   7-0601	<p>41.78 -0.3-0.5-14 x 66</p>	<p>IN</p>	<p>26 x 60</p>	<p>1 643' 2,000 1 095 2,000 1 533 2,500</p>	<p>Std. .50</p>	<p>7389502 6389600 7389513 6389611</p>
<p>Kangoo dCi Turbo Common Rail 2003... Motor K9K 700/704</p>	<p>70610.1 76 4</p>   7-0601	<p>41.78 -0.3-0.5-14 x 66</p>	<p>IN</p>	<p>26 x 60</p>	<p>1 643' 2,000 1 095 2,000 1 533 2,500</p>	<p>Std. .50</p>	<p>7389502 6389600 7389513 6389611</p>
<p>F8M 1595 cc, 22.5:1, 40.5 KW (55 HP) R 11 GTD, R 11 TD, R 11 TDE, R 5 D, R 5 GTD, R 5 TD, R 9 GTD, R 9 TDE, Supercinco Diesel R9 TD, Renault EXPRESS</p>	<p>70802.1 78 4</p>   07-8602	<p>47,25 -1,5 x 74,5</p>	<p>H</p>	<p>24 x 66.2</p>	<p>1 301' 2,000 1 005 2,000 1 533 3,000</p>	<p>Std. .50</p>	<p>7252302 6252304 7252313 6252315</p>
						<p>4419811 A=81 L=149 C=83.4 H= 4.6</p> 	

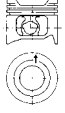

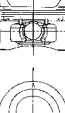
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RENAULT							
841-C7-25 1647 cc, 9.3:1, 58/61 KW (79/83 HP) Fuego, R 1341, R 18 GTL, R 18 GTS, R 18 TS	07900.1 79 4   07-7978	40,5 x 65,9	CIN	21 x 69 F		Std. 4076914 A=84 L=143.5 C=96 H= 92.6	7331601 6331603 5331605
F8 QT-740/768/610/784/785 1870 cc, 20.5:1, 68 KW (93 HP) Turbocharged Diesel R 19 1992 ... Megane 1996 ...	80007.1 80 4   08-9603	41.71 -0.7 x 66.69	A G IN ATM	26 x 66.5		Std. .25 .50	7349300 6349302 7349311 6349313 7349322 6349324
F9Q 730/734 1870 cc, 18.3:1, 73 KW (100 HP) Direct Injection Diesel Turbocharged Diesel Megane Coupe 2/98 ... Megane DTI 5/97 ... Scenic 9/97 ...	80016.1 80 4   08-0101	47,29 -1-18 x 77	IN	28 x 60		Std. .25 .50	7378405 6378400 7378416 6378411 7378420 6378422

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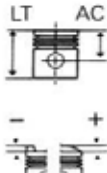

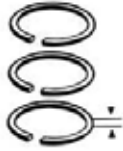


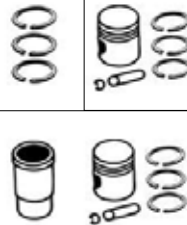
		 					 	 	 
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











F9Q, 800, 812 1870 cc, 18.3:1, 88 KW (120 HP) Megane II, 1.9 dCi, 11/2002... F9Q, Euro 3, 750 1870 cc, 18.3:1, 88 KW (120 HP) Laguna 1.9 dCi, 03/2001... Meganell, 1.9 dCi, 10/2002 ...	80020.1 80 4   08-0702	47.04 -075-17.80 x 77	G IN	28 x 60	1 640' 2,500 1 095' 2,000 1 533 3,000	Std. .50	7386304 6393402 7386326 6393413
F8Q 732/742 1870 cc, 22.5:1, 44/48 KW (60/65 HP) 1997... R 19 GTD, R 19 TD, R 19 TDE R 21 GSD 1989 ... Clio 1.9 DRT 1991 ... Kangoo 1997 ...	80048.1 80 4   08-9304	42,5 -0,7 x 67,4	IN	24 x 63	1 640' 2,000 1 045 2,000 1 533 3,000	Std. .25 .50	7345704 6345706 7345715 6345710 7345726 6345721
F2N A 700, F2N E 708 1721 cc, 10:1, 59/60 KW (80/82 HP) 1984-1986 R 11 Electronic, R 11 GTX, R 11 TXE, R 19, R 9 GTX, R 9 TXE F2N C 710 1721 cc, 10:1, 66 KW (90 HP) 03/1986... R 11 GTX, R 11 TXE, R 21 GTS, R 21 Nevada GTS, R 21 RS, R 21 TS, R 21 TSE, R 5 Baccara, R 5 GTX, R 9 GTX, R 9 TXE	08129.1 81 4   08-8701	44,1 -13,4 x 70,1	CIN	21 x 65 F	1 301' 1,750 1 005 2,000 1 231 3,000	Std. .50	7267400 6267402 7267411 6267413



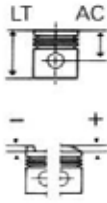
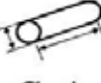
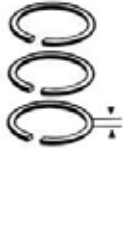


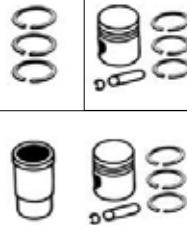






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RENAULT							
F3 N 1721 cc, 9.5:1, 55 KW (75 HP) Catalizador Inyección 1985... R 11 GTX, R 19, R 21, R 5 GTE, R 9 GTX	08136.1 81 4  08-8701	44,2 -14,26 x 70,2	CIN	21 x 65 F	1 301' 1,750 1 005 2,000 1 231 3,000	Std. .25 .50	7267400 6344601 7267422 6344612 7267411 6344623
F3P-678 1784 cc, 9.8:1, 81/83 KW (110/113 HP) Catalizador Inyección Clio 1.8, R 19 1.8 1993 ... Laguna 1994 ...	08158.1 82,7 4  08-9803	33,55 -3 x 60	CIN	21 x 65 F	1 301' 1,500 1 023 1,750 1 230 3,000	Std. .25 .50	7368001 6368003 7368012 6368014 7368023 6368025
F3R-722 1998 cc, 9.8:1, 85 KW (115 HP) 1994... Laguna 2.0	08159.1 82,7 4  08-9902	36,12 -9,08 x 60	ATM	21 x 57	1 301' 1,500 1 023 1,750 1 230 3,000	Std. .25 .50	7368001 6369205 7368012 6369216 7368023 6369220

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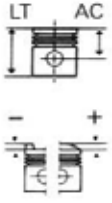
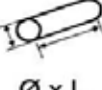


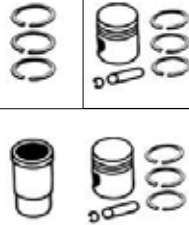
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

<p>852-A-700, J8S-A-704, J8S-G-706 2068 cc, 21.5:1, 47/49/54.5 KW (64/67/74 HP) Normally Aspirated 1981-1988 1995... P 1400 D, P 323, P/T 1000 D, P /T 1200 D, PA 23, PA 93, R 1275, R 1344, R 135-400, R 1354, R 18 4x4, R 18 Automatic, R 18 Break, R 18 GTD, R 18 TD, R 18 Variable, R 20 GTD, R 20 TD, R 21 GTD, R 21 Nevada GTD, R 21 TD, R 2354, R 25 GTD, R 25 TD, T 423, T 800 D, Trafic P/T 313</p>	80605.1 86 4   08-8404	51 -2.2-4 x 88	H	28 x 75	1 600' 2,000 1 005 2,000 1 533 4,000	Std. .50  - A - 	4081416 A=93.6 L=166 C=0 H= 93.05	7305900 6305902 7305911 6305913 5305904
<p>J8S 714 2068 cc, 21.5:1, 62.5/65.5 KW (85/88 HP) 1981... Espace TD, Fuego TD, R 18 TD, R 20 TD, R 21 TD, R 25 TD, R 30 TD Nevada 1988 ... 1995</p>	80610.1 86 4   08-9701	50.99 -4 x 87	H IN	28 x 75	1 690' 2,500 1 023 2,500 1 533 4,000 1 690' 2,500 1 023 2,500 1 530 3,000	Std. .50  - A - 	4081416 A=93.6 L=166 C=0 H= 93.05	7360205 6360200 7360216 6360211 7381301 5360202
<p>J8S-760 2068 cc, 21.5:1, KW (HP) Turbo Intercooler Safrane Turbo 03/92 Espace Turbo, Master Turbo, Trafic turbo 07/92</p>	80611.1 86 4   08-9701	50.99 -0.39-1.99 -3.59 x 87	IN H	28 x 75	1 690' 2,500 1 023 2,500 1 530 3,000	Std.  - A - 	4081416 A=93.6 L=166 C=0 H= 93.05	7381301 6381303 5381305



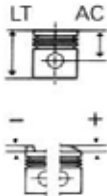

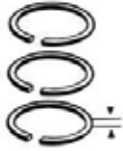



			Type	 $\varnothing \times L$					
1	2	3	4	5	6	7	8		
RENAULT									
G9T, 700, 702, 703, 704, 706, 707, 708, 709, 712, 742, 743, 744 2188 cc, 110 KW (150 HP) Espace 2.2 dCi 16 V 11 /2002..., Laguna dCi 16 V. 10/2001... Vel Statix 2.2 dCi 06/2002...	80705.1 87 4   8-0801	54.53 -17.5 x 84.20	G IN	31 x 65	1 697' 3,000 1 955 1,750 1 236 2,500	Std. .50	7393702 7393713	6393704 6393715	
G9T, 710, 720, 722, 750 2188 cc, 18:1, 66/110 KW (90/150 HP) Master T28 2.2 dCi 16 V. Master II dCi 16 V. 09/2000...	80706.1 87 4   8-0801	54.53 -17.5 x 84.20	IN	31 x 65	1 697' 3,000 1 955 1,750 1 236 2,500	Std. .50	7393702 7393713	6393800 6393811	
829 E 7 1995 cc, 9.2:1, 61 KW (85 HP) 1983... P 1200, P 1400, Trafic P862 Minicar 829.00/01/702 1995 cc, 9.2:1, 76.5/80 KW (104 /109 HP) 11/1979... Fuego GTL, Fuego GTS, Fuego GTX, Fuego TX, R 135 300, R 1363, R 18 Automatic, R 18 Break, R 18 GTX, R 18 TX, R 20 Automatic, R 20 LS, R 20 TS J 6 R 1995 cc, 9.2:1, 75/81 KW (103/110 HP) 11/1983... Espace 2000 GTS, Espace 2000 TSE, R 25 GTS, R 25 TS	08819.1 88 4   08-8603	40.5 +1.55 x 67.05	CIN	23 x 75 F	1 600' 1,750 1 005 2,000 1 231 4,000	Std. 4083214 A=93,55 L=140 C=104.2 H= 93	7253304	6253306 5253301	

R

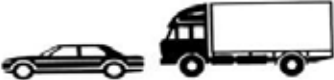

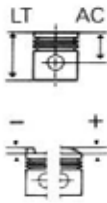

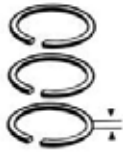


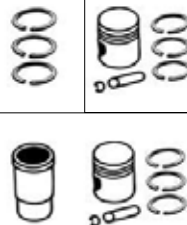
			Type	 Ø x L			
1	2	3	4	5	6	7	8

RENAULT

G9U 720, 724, 726, 736, 750, 754 2463 cc, 21:1, 84 KW Oct. 2001... Master II 2.5 dCi	80903.1 89 4   8-0601	53.03 -17.85 x 83.09	IN	31 x 65	1 697' 3,000 1 095 1,750 1 236 2,500	Std. .50	7389804 6389806 7389815 6389810
S 8 U, 8140-58U/ -68 U 2445 cc, 22:1, 50/51 KW (68/40 HP) B 70, P 30 D, P 35 D, P /T 1800, Renault Master T30 D, T 1400 D, T 35 D	90300.1 93 4						See Fiat
S8W.732 /742, 8140.67.2500, S8750/753 2499 cc, 22:1, 55 KW (75 HP) 1985-1994 Master	90302.1 93 4						See Fiat
8140.21, 8144.21 2445 cc, 22:1, 68 KW (92 HP) Turbocharged Diesel 1986... Master B 90-35 D	90304.1 93 4						See Fiat
8140.27.2700 2499 cc, 18.5:1, 68 KW (92 HP) Turbocharged Diesel 1990-1993 Master B 90-35 D	90305.1 93 4						See Fiat
8140.23.3700 Euro 2 2798 cc, 18.5:1, 85 KW (115 HP) Turbo Intercooler 1996... Master	90440.1 94,4 4						See Fiat

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8
RENAULT								
<p>D 225-3 2550 cc, 18:1, 37 KW (50 HP) Diesel Refrigerado por agua Tractor 361, Tractor 51, Tractor 551, Tractor 91, Tractor 96</p> <p>D 325 1700 cc, 18:1, 22/23.5 KW (30/32 HP) Refrigerado por aire Tractor 50, Tractor 53</p> <p>D 325 2550 cc, 18:1, 31/34 KW (42/46 HP) Refrigerado por aire 421, 456, 460 S, 486, 60, 60 S, 70, 80, 86, Tractor 56</p> <p>D 325 3400 cc, 18:1, 51 KW (69 HP) Refrigerado por aire Tractor 94</p> <p>D 325 5100 cc, 18:1, 59/66/67.5/73 KW (80 /90/92/99 HP) Refrigerado por aire 1969... 651-4, Tractor 498, Tractor 98</p>	<p>90501.1 95 2/3/4/6</p>							<p>See M W M</p>
<p>D 227 3760 cc, 18:1, 48 KW (65 HP) Refrigerado por agua 651S, 656S, 681S, 681S/4S, Tractor 461</p> <p>D 227 5640 cc, 18:1, 70 KW (95 HP) Refrigerado por agua 113.12 TS, 113.12 TX, 113.14 TS, 113.14 TX, 951.4, 981, Tractor 921</p> <p>D 327 1885 cc, 18:1, 22.5/24/25.5 KW (30.5 /33/35 HP) Refrigerado por aire 301, 351 M, Tractor 50-S</p> <p>D 327 2827 cc, 18:1, 31/34/37/39 KW (42/46 /50/53 HP) Refrigerado por aire 32-50 F, 32-50 V, 32-60 V-F, 421, 461 M, 461 S, 480 S, Tractor 361, Tractor 80 S</p>	<p>10179.1 100 2/3/4/6</p>							<p>See M W M</p>

R

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8
RENAULT								
<p>D 227 3760 cc, 18:1, 48 KW (65 HP) Refrigerado por agua 6515/4S, 651S, 656S, 681S, 681S /4S, Tractor 461</p> <p>D 227 5640 cc, 18:1, 70 KW (95 HP) 113.12 TS, 113.12 TX, 113.14 TS, 113.14 TX, 951.4, 981, Tractor 921</p> <p>D 327 1885 cc, 18:1, 22.5/24/25.5 KW (30.5 /33/35 HP) Refrigerado por aire 301, 351 M, Tractor 50-S</p> <p>D 327 2827 cc, 18:1, 31/34/37/39 KW (42/46 /50/53 HP) Refrigerado por aire 32-50 F, 32-50 V, 32-60 V-F, 421, 461 M, 461 S, 480 S, Tractor 361, Tractor 80 S</p>	10251.1 100 2/3/4/6							See M W M
<p>4.236 Tractor 70</p>	09820.4 98,476							See Perkins

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
SCANIA (See Bendix)										
Compresor	Bendix		2	75				15 W 37, WB15, WB31	07647.1	62

S

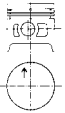

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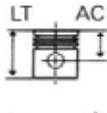


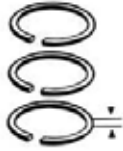



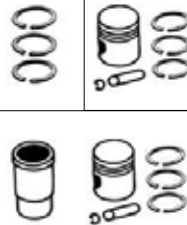
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								SEAT (See also Fiat, Mercedes-Benz, Perkins, Volkswagen)		
1 Z	Volkswagen	19.5:1	4	79.51	1896	66	90	Alhambra, Ibiza, Toledo	70952.1 70951.1	293 293
1.8 Ltrs	Volkswagen	9:1	4	81.01	1781	65	88	Toledo	08137.1	293
1.9 AAZ	Volkswagen	22.5:1	4	79.51	1896	55	75	Toledo, Ibiza, Córdoba	70900.1	291
1.9 Ltrs.	Volkswagen	22.5:1	4	79.5	1896	47/50	64/68	Toledo, Ibiza	07950.1	291
100D000, 100D006, 100D008		7.5/8.8:1	4	62	767	18.5/21.5	25/29	600 D, 600 E, 600 L	06164.5	268
100GL000, 100GL3000		8.7/9:1	4	65	903	32/33/35	43/45/47	127, 127 LS /CL, 127 Póker, 127 Fura L /CL, Panda 45, Panda Montaña, Panda Marbella, Panda Bavaria	06679.3	268
4.108	Perkins	22:1	4	79.375	1760	37	50	131 L /E, 131 Supermirafiori	70937.2	210
8144.61	Fiat	22:1	4	93	2445	53	72	131 Mirafiori CL, 131 Supermirafiori, 131 Panorama Super	90300.1	96
AEY	Volkswagen	19.5:1	4	79.51	1996	47	64	León SDI	70902.1 70903.1	292 292
AFN	Volkswagen	19.5:1	4	79.5	1896	81	110	Alhambra, Toledo	70951.1 70952.1	293 293
AGZ	Volkswagen	10.1:1	5	81.01	2324	110	150	Toledo 2.3 V5	08139.1	294
ARL	Volkswagen	19.5:1	4	79.5	1896	110	150	Toledo 1.9 TDI (10 /2000...07 /2004), Leon 1.9 TDI (09 /2000...)	70969.1 70968.1	290 290
ASZ	Volkswagen	19:1	4	79.5	1896	96	130	Toledo 1.9 TDI (05 /2003...07 /2004), Alhambra 1.9 TDI (11 /2002...), Cordoba 1.9 TDI /10 /2002...), Ibiza 1.9 TDI (11 /2001...), Leon 1.9 TDI (05 /2003...)	70968.1 70969.1	290 290
ATD	Volkswagen	19:1	4	79.50	1896	74	100	Ibiza 1.9 TDI (09 /2001...), Cordoba 1.9 TDI (09 /2002...)	70966.1 70967.1	289 289
AUY KAT	Volkswagen	18:1	4	79.5	1896	85	115	Alhambra 1.9 TDI (06 /2000...)	70964.1 70965.1	288 288
AXR	Volkswagen	19:1	4	79.5	1896	74	101	Leon 1.9 TDI (10 /2005...), Ibiza 1.9 TDI /05 /2005...), Cordoba 1.9 TDI (05 /2005...)	70966.1 70967.1	289 289

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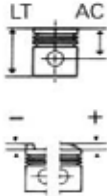

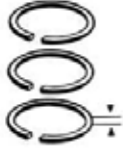

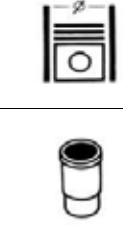
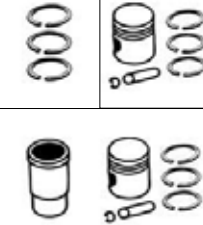
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
OM 615	Mercedes-Be nz	21:1	4	87	2197	44	60	132, 132 L	80720.3	166
OM 615.940	Mercedes-Be nz	21:1	4	87	1988	44	60	132	80700.1	165



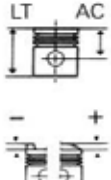

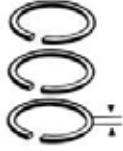



S

1	2	3	4	5	6	7	8
SEAT							
100D000, 100D006, 100D008 767 cc, 7.5/8.8:1, 18.5/21.5 KW (25 /29 HP) 1960-1971 600 D, 600 E, 600 L	06164.5 62 4  06-2977	30,75 x 61,75	CIN	20 x 50.8	1 301 2,000 1 022 2,000 1 232 3,947	Std. .40 .60 1.00 4466313 A=66 L=110 C=67.5 H= 4	7427906 6427901 7427910 6427912 7427932 6427934 7427954 6427956
100GL000, 100GL3000 903 cc, 8.7/9:1, 32/33/35 KW (43/45 /47 HP) 127, 127 Fura L /CL, 127 LS /CL, 127 Póker, Panda 45, Panda Bavaria, Panda Marbella, Panda Montaña	06679.3 65 4  06-4975	30,75 x 61,25	CIN	20 x 54 F	1 341' 1,750 1 023 2,000 1 232 3,947	Std. .40 .60 1.00 4411013 A=69 L=115 C=69.5 H= 4	7339802 6340600 7339813 6340611 7339824 6340622 7339835 6340633
4.108 1760 cc, 22:1, 37 KW (50 HP) 131 L /E, 131 Supermirafiori	70937.2 79,375 4						See Perkins
AUY KAT 1896 cc, 18:1, 85 KW (115 HP) Intercooler Alhambra 1.9 TDI (06/2000...)	70964.1 79,5 4 Cilindros 1/2 Cylinder						See Volkswagen
	70965.1 79,5 4 Cilindros 3/4 Cylinder						See Volkswagen

		 	Type	 Ø x L			 	
1	2	3	4	5	6	7	8	8
SEAT								
ATD 1896 cc, 19:1, 74 KW (100 HP) Intercooler Cordoba 1.9 TDI (09/2002...) Ibiza 1.9 TDI (09/2001...)	70966.1 79,5 4 Cilindros 1/2 Cylinder							See Volkswagen
AXR 1896 cc, 19:1, 74 KW (101 HP) Intercooler Cordoba 1.9 TDI (05/2005...) Ibiza 1.9 TDI /05/2005...), Leon 1.9 TDI (10/2005...)	70967.1 79,5 4 Cilindros 3/4 Cylinder							See Volkswagen
ARL 1896 cc, 19.5:1, 110 KW (150 HP) Intercooler Leon 1.9 TDI (09/2000...) Toledo 1.9 TDI (10/2000...07/2004)	70968.1 79,5 4 Cilindros 1/2 Cylinder							See Volkswagen
ASZ 1896 cc, 19:1, 96 KW (130 HP) Intercooler Turbodiesel Alhambra 1.9 TDI (11/2002...) Cordoba 1.9 TDI /10/2002...), Ibiza 1.9 TDI (11/2001...), Leon 1.9 TDI (05/2003...), Toledo 1.9 TDI (05/2003...07/2004)	70969.1 79,5 4 Cilindros 3/4 Cylinder							See Volkswagen
1.9 Ltrs. 1896 cc, 22.5:1, 47/50 KW (64/68 HP) Ibiza 03/1991 Toledo 1993 ...	07950.1 79,51 4							See Volkswagen
1.9 AAZ 1896 cc, 22.5:1, 55 KW (75 HP) Catalizador Turbocharged Diesel 1992... Córdoba, Ibiza, Toledo	70900.1 79,51 4							See Volkswagen
AEY 1996 cc, 19.5:1, 47 KW (64 HP) León SDI 12/99 ...	70902.1 79,51 4							See Volkswagen

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			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8
SEAT								
AEY 1996 cc, 19.5:1, 47 KW (64 HP) León SDI 12/99 ...	70903.1 79,51 4							See Volkswagen
1 Z 1896 cc, 19.5:1, 66 KW (90 HP) Turbocharged Diesel Intercooler 1996... Alhambra	70951.1 79,51 4							See Volkswagen
AFN 1896 cc, 19.5:1, 81 KW (110 HP) Turbocharged Diesel Catalizador Intercooler 1996... Alhambra Toledo	70952.1 79,51 4							See Volkswagen
1.8 Ltrs 1781 cc, 9:1, 65 KW (88 HP) Catalizador 1993... Toledo	08137.1 81,01 4							See Volkswagen
AGZ 2324 cc, 10.1:1, 110 KW (150 HP) Toledo 2.3 V5	08139.1 81,01 5							See Volkswagen
OM 615.940 1988 cc, 21:1, 44 KW (60 HP) Diesel 1979-1982 132	80700.1 87 4							See Mercedes-Benz
OM 615 2197 cc, 21:1, 44 KW (60 HP) 132 132 L	80720.3 87 4							See Mercedes-Benz

			Type					
1	2	3	4	5	6	7	8	8

SEAT

8144.61
 2445 cc, 22:1, 53 KW (72 HP)
 Diesel
 131 Mirafiori CL, 131 Panorama Super, 131
 Supermirafiori

90300.1
93
 4

See Fiat

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								SKODA (See Volkswagen)		
1 Z	Volkswagen	19.5:1	4	79.51	1896	66	90	Octavia	70952.1 70951.1	293 293
AEY	Volkswagen	19.5:1	4	79.51	1996	47	64	Fabia SDI	70903.1 70902.1	292 292
AFN, AGR, AHV	Volkswagen	19.5:1	4	79.5	1896	81	110	Octavia	70951.1 70952.1	293 293
ASZ	Volkswagen	19:1	4	79.5	1896	96	130	Fabia 1.9 TDI (06 /2003...), Fabia RS 1.9 TDI (09 /2003...), Octavia 1.9 TDI (09 /2002...09 /2004)	70968.1 70969.1	290 290
ATD	Volkswagen	19:1	4	79.50	1896	74	100	Fabia 1.9 TDI (01 /2000...), Octavia 1.9 TDI (08 /2000...)	70966.1 70967.1	289 289
AVB	Volkswagen	19:1	4	79.5	1896	74	100	Superb 1.9 TDI /06 /2002...)	70966.1 70967.1	289 289
AVF	Volkswagen	19:1	4	79.50	1896	96	130	Superb 1.9 TDI (01 /2004...)	70968.1 70969.1	290 290
AWX	Volkswagen	19:1	4	79.5	1896	96	130	Superb 1.9 TDI (12 /2001...)	70968.1 70969.1	290 290
AXR	Volkswagen	19:1	4	79.5	1896	74	101	Octavia 1.9 TDI (10 /2005...)	70966.1 70967.1	289 289



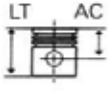


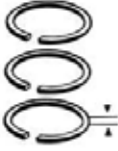






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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								Ssangyong (See Peugeot)		
XD3T	Peugeot	21:1	4	94	2498	54/70	73/110	Korando 1997...	90414.1	243


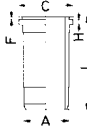
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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
STEYR										
WD 308.40/41 /45			3	100	2356	31/33 /34,5	42/45/47	Tractor 540 /a, Tractor 545 /a, Tractor 548	10255.1	275
WD 408.40/41 /42/43			4	100	3140	38/40,4 /46,3	52/55/60 /63	Tractor 650 /a, Tractor 658, Tractor 760, Tractor 768 /a	10255.1	275

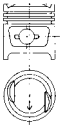




		 	Type				 	  
1	2	3	4	5	6	7	8	



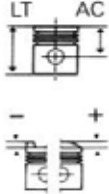

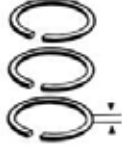


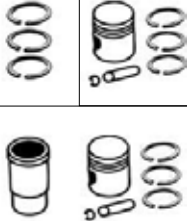
STEYR

<p>WD 308.40/41/45 2356 cc, 31/33/34,5 KW (42/45/47 HP) Diesel Tractor 540 /a, Tractor 545 /a, Tractor 548</p>	<p>10255.1 100 3/4</p>	<p>63,4 -19,4 x 103,9</p>		<p>35 x 83</p>	<p>1 301' 2,500 1 005 2,500 1 023 2,500 1 533 5,000</p>	<p>Std.</p>	<p>7222600 6222602</p>
<p>WD 408.40/41/42/43 3140 cc, 38/40,4/46,3 KW (52/55/60 /63 HP) Diesel 1968... Tractor 650 /a, Tractor 658, Tractor 760, Tractor 768 /a</p>	 10-8401					 <p>4080812 A=109,4 L=197 C=118 H+F= 9+0.8</p>	<p>5222604</p>







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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
SUZUKI										
1.6 Ltrs.		8.9:1	4	75	1590	55	75	Escudo, Vitara JLX	07501.1	278
F10A		8.8:1	4	65.5	970	33	45	Supercarry, Jimny SK 410 Van, Truck, TA, TX, Suzuki SJ 410, Q, V, W, K, Samurai	06167.1	278
G 13 BA		9.5:1	4	74	1298	46	63	Samurai 1300	07406.1	279
G 16 B		9.5:1	4	75	1590	70,5	96	Vitara 1.6 JLXi 16V	07526.1	279
G13A		8.9:1	4	74	1325	47	64	Suzuki SJ 413, Long Body, Samurai	07402.1	278
YR8		9.5:1	4	74	1298	59	80	Jimny	07040.1	278
K9K 700			4	76				Jimny 1.5 DDIS	70606.1 70610.1	

1	2	3	4	5	6		7	8	
1	2	3	4	5	6		7	8	
SUZUKI									
F10A 970 cc, 8.8:1, 33 KW (45 HP) Suzuki SJ 410, Q, V, W, K 1982 ... Jimny SK 410 Van, Truck, TA, TX 1985 ... Samurai 1990 ... Supercarry 1995 ...	06167.1 65,5 4  06-8701	24,55 -2 x 55		16 x 53.2	1 600' 1,500 1 005 1,500 1 232 2,800	Std. .50 1.00		7240100 7240111 7240122	6240102 6240113 6240124
YR8 1298 cc, 9.5:1, 59 KW (80 HP) Jimny	07040.1 74 4   07-0003	29.05 -1.8 x 56.05		19 x 63.5	1 600' 1,200 1 005 1,200 1 232' 2,500	Std.		7383106	6391206
G13A 1325 cc, 8.9:1, 47 KW (64 HP) Long Body, Samurai, Suzuki SJ 413	07402.1 74 4   07-8902	28,3 -1,35 x 55,3		17 x 65.1 F	1 600' 1,200 1 005 1,500 1 232 2,800	Std. .50 1.00		7276603 7276625 7276636	6276605 6276620 6276631

			Type	 Ø x L				
1	2	3	4	5	6	7	8	

SUZUKI

G 13 BA 1298 cc, 9.5:1, 46 KW (63 HP) Samurai 1300	07406.1	29.25		17	1	600'	1,200	Std.	7276603	6295903
	74	-3.1-4.65		x	1	005	1,500	.50	7276625	6295914
	4	x		65.1	1	232	2,800	1.00	7276636	6295925
	 	56.25		F						
	07-8602									
1.6 Ltrs. 1590 cc, 8.9:1, 55 KW (75 HP) Escudo, Vitara JLX	07501.1	28,3		19	1	640'	1,200	Std.	7338505	6338500
	75	-3,3		x	1	023	1,500	.50	7338516	6338511
	4	x		63.15	1	232	2,800	1.00	7338520	6338522
	 	58,3								
	07-8806									
G 16 B 1590 cc, 9.5:1, 70,5 KW (96 HP) Vitara 1.6 JLi 16V	07526.1	28,3		19	1	640'	1,200	Std.	7338505	6360001
	75	-4,2		x	1	023	1,500	.50	7338516	6360012
	4	x		63.15	1	232	2,800	1.00	7338520	6360023
	 	55,3								
	07-9301									
K9K 700 Jimny 1.5 DDIS	70606.1								See Renault	
	70610.1									
	76									

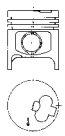
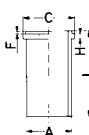

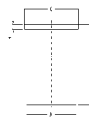

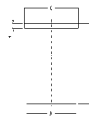
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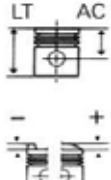

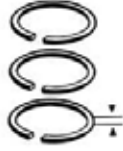

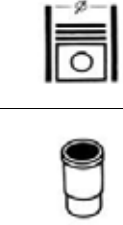
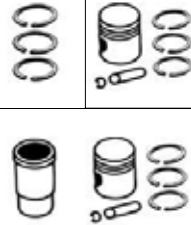
Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								TALBOT (See Citroen, Peugeot)		
9V8	Peugeot	21:1	4	94	2034	54/59	73/80	Tagora DT	90405.1	242
XD2	Peugeot	22.2:1	4	94	2304	46/53	63/72	Tagora, 1982...	90406.1	242
XUD 9	Citroen	23.5:1	4	83	1905	48	65	Horizon LD /GLD /EXD /GTD, Solara Escorial 1.9 D	80374.1	78
XY-6B (5K2) (150)	Citroen	9.3:1	4	75	1360	53	72	Samba S /GLS /Cabriolet	07784.1	73

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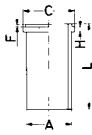

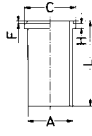
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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								TOYOTA		
11 B Diesel			4	95				BU 65 - BU 80	90513.1	282
2L II		21:1	4	92	2446	61	83	Hi-Ace Type LH102-112, Hi-Lux Type LN85	90211.1	281
2LT		21:1	4	92	2446	66	90	Landcruiser Type LJ70, Cressida Type LX70	90210.1	281
B Engine		21:1	4	95	2977	59	80	Coaster Bus BU19, Dyna BU10 /12 /15 /20 /22 /30 /35 /70, Land Cruiser 3000, Toyo-Ace BY30 /31 /31D	90512.1	282
L Series		21.5:1	4	90	2188	53	66	Crown, Cressida, Corona, Hi-Ace, Blizzard, Hi-Lux, Mark II, Toyo-Ace	90018.1	281

1	2	3	4	5	6		7	8	
TOYOTA									
<p>L Series 2188 cc, 21.5:1, 53 KW (66 HP) Diesel Blizzard, Corona, Cressida, Crown, Hi-Ace, Hi-Lux, Mark II, Toyo-Ace</p>	<p>90018.1 90 4  09-8902</p>	<p>52,2 -1,8 x 99</p>	<p>Type ALM</p>	<p>27 x 74</p>	<p>1 307' 2,000 1 301 2,000 1 533 4,000</p>	<p>Std.  4419413 A=94 L=161 C=101 H+F= 3.5+1.2</p>		<p>7294906 6294901</p>	
<p>2LT 2446 cc, 21:1, 66 KW (90 HP) Diesel 1984-1989 Cressida Type LX70, Landcruiser Type LJ70</p>	<p>90210.1 92 4  09-9802</p>	<p>49.2 -2.5-3.6 x 86.2</p>	<p>Type IN ATM</p>	<p>29 x 74.6</p>	<p>1 307' 2,000 1 005 2,000 1 533 4,000</p>	<p>Std. .50 1.00  4421712 A=96 L=160.5 C=100.8 H= 3.6</p>		<p>7364906 6364901 7364910 6364912 7364921 6364923</p>	
<p>2L II 2446 cc, 21:1, 61 KW (83 HP) 1989-93 Hi.Lux Type LN85 1989 ... Hi-Ace Type LH102-112 1989 ... 1993</p>	<p>90211.1 92 4  09-9803</p>	<p>44,3 -1,9 x 80,3</p>	<p>Type IN ATM</p>	<p>27 x 70</p>	<p>1 307' 2,000 1 005 2,000 1 533 4,000</p>	<p>Std. .50 1.00  4421712 A=96 L=160.5 C=100.8 H= 3.6</p>		<p>7364906 6365203 7364910 6365214 7364921 6365225</p>	

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8

TOYOTA

<p>B Engine 2977 cc, 21:1, 59 KW (80 HP) 1975... Coaster Bus BU19, Dyna BU10 /12 /15 /20 /22 /30 /35 /70, Land Cruiser 3000, Toyo-Ace BY30 /31 /31D</p>	<p>90512.1 95 4</p>  <p>09-9101</p>	<p>52,2 -2,5 x 101,2</p>	<p>IN</p>	<p>29 x 79</p>	<p>1 997' 2,500 1 005 2,500 1 533 4,500</p>	<p>Std. .50</p>  <p>4417711 A=102 L=190.5 C=107.7 H+F= 2.5+1.2</p>	<p>7327703 6327705 7327714 6327716</p>	
<p>11 B Diesel BU 65 - BU 80</p>	<p>90513.1 95 4</p>  <p>09-9602</p>	<p>63.4 -18.12 x 98.3</p>	<p>IN</p>	<p>34 x 76</p>	<p>1 301' 2,500 1 045' 2,500 1 533 4,500</p>	<p>Std.</p>  <p>4422110 A=99,1 L=191.2 C=104.7 H+F= 2.5+1.1</p>	<p>7357700 6357702</p>	

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								Vauxhall (See Renault)		
G9U 720	Renault	21:1	4	89	2463	84		Movano 2.5 DTI (Oct. 2001...)	80903.1	262

V

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
VOLKSWAGEN										
(See also Toyota)										
1 X		22.5:1	4	79.5	1896	45	61	T4	07950.1	291
1 Y, AEF		22.5:1	4	79.5	1896	47/50	64/68	Passat, Golf	07950.1	291
1 Z		19.5:1	4	79.51	1896	66	90	Golf, Passat, Vento, TDI, Sharan TDI	70951.1 70952.1	293 293
1.6 Ltrs.		22.5/23:1	4/6	76.51	1588	37/40	50/54	Jetta CL, Golf D, Golf LD, Golf GLD, Golf C, Golf CL, Golf GL, Golf Caddy, Jetta D, Jetta C, Jetta GLD, Santana D, Jetta GL, Passat D, Passat Variant, Passat C, Passat CL, Passat GL, Passat LD, Transporter 253, Santana CL, Santana GL, Santana CX, Santana LX, Santana GX, Rabbit, Rabbit Pick-Up, Rabbit L, Rabbit LS, Rabbit GL, Dasher (USA), Quantum, Transporter 245, Transporter 251, Transporter 247, Transporter 255, Bus	70655.1	287
1.6 Ltrs.			4	76.51	1588	35/36	47.5/49	068.5 Industrial engine	70655.1	287
1.6 Ltrs.		23.5:1	4	76.51	1588	51	70	Golf Turbo C /CL /GL /GTD, Jetta Turbo C /CL /GL, Santana TurboCL /CX /GL /GX /LX, Rabbit Turbo CX /L /LS /LX /GL /GX (USA), Transporter 245, Transporter 247, Transporter 251, Transporter 253, Transporte 4x4	70655.1	287
1.6 Ltrs.		23:1	4	76.51	1588	59	80	Passat Turbodiesel	70655.1	287
1.8 Ltrs.		9/10:1	4	81.01	1781	66/82	90/112	Golf GTI, Jetta GLI, Passat, Scirocco, Vento	08137.1	293
1.8 Ltrs.		10:1	4	81.01	1781	66	90	Golf, Jetta, Passat, Scirocco, Santana	08137.1	293
1.9 AAZ		22.5:1	4	79.51	1896	55	75	Vento, Golf, Passat	70900.1	291
2.4 Ltrs.		23:1	6	76.51	2383	55	75	2400 CP, LT 28 D, LT 31 D, LT 35 D, LT 40 D, LT 45 D, LT 50 D, Allrad, Ekus 75.28, Ekus 32, Ekus 35, Ekus 40, Ekus 46, Ekus 50, Ekus 56	70655.1	287
2.4 Ltrs.		22.5:1	6	76.51	2383	52/54/56	70.7/73.4 /76	076.1 Industrial Engine	70655.1	287
2.4 Ltrs.		23:1	6	76.51	2383	75	102	LT 28, LT 31, LT 40, LT 35, LT 45, LT 50, LT 55 Turbo	70655.1	287
2L II	Toyota	21:1	4	92	2446	61	83	Taro	90211.1	281
ABB		22.5:1	5	79.5	2370	57	78	T4	07950.1	291

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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
ACV. AHD		19.5:1	5	81.01	2461	75	102	LT 35 TDI, T4. Caravelle TDI	80101.1	294
									80102.1	294
AEY		19.5:1	4	79.51	1996	47	64	Caddy SDI, Golf SDI, Vento SDI	70903.1	292
AFN, AHF		19.5:1	4	79.51	1896	81	110	Golf, Passat, Sharan, Vento	70952.1	293
AGX		19.5:1	5	81.01	2461	55	75	LT 28 SDI	80101.1	294
AHU		19.5:1	4	79.51	1896	66	90	Vento, Sharan, Passat, Golf, Caddy	70952.1	293
AJM		19.5:1	4	79.5	1896	85	115	Passat 1.9 TDI /01 /1999...12 /1999), Golf IV 1.9 TDI (05 /1999...07 /2001), Bora 1.9 TDI (11 /1998...07 /2001)	70965.1	288
ARL		19.5:1	4	79.5	1896	110	150	Golf IV 1.9 TDI (09 /2000...), Bora 1.9 TDI (09 /2000...05 /2005)	70968.1	290
ASZ		19:1	4	79.5	1896	96	130	Sharan 1.9 TDI /11 /2002...), Polo 1.9 TDI (11 /2003...), Golf IV 1.9 TDI (04 /2001...), Bora 1.9 TDI (04 /2001...05 /2005)	70968.1	290
ATD		19:1	4	79.50	1896	74	100	Bora 1.9 TDI (05 /2000...05 /2005), Golf IV 1.9 TDI (02 /2000...), New Beetle 1.9 TDI (10 /2000...), Polo 1, 9 TDI (11 /2001...05 /2005)	70966.1	289
ATJ		18:1	4	79.5	1896	85	115	Passat 1.9 TDI (01 /2000...08 /2000)	70965.1	288
AUY		18:1	4	79.5	1896	85	115	Golf IV 1.9 TDI (01 /2000...07 /2001), Bora 1.9 TDI (05 /2000...07 /2001), Sharan 1.9 TDI (04 /2000...)	70964.1	288
AVB		19:1	4	79.5	1896	74	100	Passat 1.9 TDI (02 /2000...05 /2005)	70966.1	289
AVF		19:1	4	79.50	1896	96	130	Pasat 1.9 TDI, Passat TDI 4motion (10 /2000...05 /2005)	70968.1	290

V

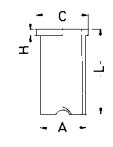
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Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
AWX		19:1	4	79.5	1896	96	130	Pasat 1.9 TDI, Passat TDI 4motion (10 /2000...05 /2005)	70968.1 70969.1	290 290
AXR		19:1	4	79.5	1896	74	101	Bora 1.9 TDI (05 /2001...05 /2005), Golf IV 1.9 TDI /05 /2001...), New Beetle 1.9 TDI (06 /2003...), Polo 1.9 TDI (11 /2001...)	70966.1 70967.1	289 289
VR 6, AAA		10:1	6	81.1	2792	128	174	Sharan, Passat, Golf, Vento	08139.1	294
VR6		10:1	6	81.01	2792	132	180	Corrado	08139.1	294





			Type					
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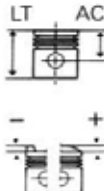

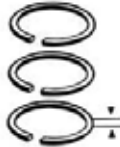


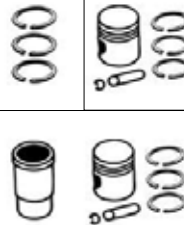
VOLKSWAGEN

<p>1.6 Ltrs. 1588 cc, 22.5/23:1, 37/40 KW (50 /54 HP) Diesel Set.1980...</p> <p>Bus, Dasher (USA), Golf C, Golf Caddy, Golf CL, Golf D, Golf GL, Golf GLD, Golf LD, Jetta C, Jetta D, Jetta GL, Jetta GLD, Passat C, Passat CL, Passat GL, Passat LD, Passat Variant, Quantum, Rabbit, Rabbit GL, Rabbit L, Rabbit LS, Rabbit Pick-Up, Santana CL, Santana CX, Santana GL, Santana GX, Santana LX, Transporter 245, Transporter 247, Transporter 251, Transporter 255</p> <p>Jetta CL, Passat D, Santana D, Transporter 253</p>	70655.1	41,7	A ALM IN VC	24	1	301'	1,750	Std.	7351702	6351704
	76,51	-1,6								
<p>1.6 Ltrs. 1588 cc, 35/36 KW (47.5/49 HP) Diesel 068.5 Industrial engine</p>	4/6	x	A ALM IN VC	24	1	301'	1,750	.50	7351713	6351715
	76,51	-1,6								
<p>1.6 Ltrs. 1588 cc, 23.5:1, 51 KW (70 HP) Turbocharged Diesel 1982...</p> <p>Golf Turbo C/CL/GL/GTD, Jetta Turbo C/CL/GL, Transporte 4x4, Transporter 245, Transporter 247, Transporter 251, Transporter 253</p> <p>Rabbit Turbo CX/L/LS/LX/GL /GX (USA), Santana TurboCL/CX/GL/GX/LX</p>	07-9501	71,7	A ALM IN VC	24	1	533	3,000	1.00	7358411	6358413
	76,51	-1,6								
<p>1.6 Ltrs. 1588 cc, 23:1, 59 KW (80 HP) Diesel Turbocharged-Intercooled 1988...</p> <p>Passat Turbodiesel</p>		71,7	A ALM IN VC	24	1	533	3,000	.50	7358411	6358413
		-1,6								
<p>2.4 Ltrs. 2383 cc, 23:1, 55 KW (75 HP) Diesel 1978...</p> <p>2400 CP, Allrad, Ekus 32, Ekus 35, Ekus 40, Ekus 46, Ekus 50, Ekus 56, Ekus 75,28, LT 28 D, LT 31 D, LT 35 D, LT 40 D, LT 45 D, LT 50 D</p>		71,7	A ALM IN VC	24	1	533	3,000	.50	7358411	6358413
		-1,6								
<p>2.4 Ltrs. 2383 cc, 22.5:1, 52/54/56 KW (70.7 /73.4/76 HP) Diesel Set.1978...</p> <p>076.1 Industrial Engine</p>		71,7	A ALM IN VC	24	1	533	3,000	.50	7358411	6358413
		-1,6								
<p>2.4 Ltrs. 2383 cc, 23:1, 75 KW (102 HP) Turbocharged Diesel 1983...</p> <p>LT 28, LT 31, LT 35, LT 40, LT 45, LT 50, LT 55 Turbo</p>		71,7	A ALM IN VC	24	1	533	3,000	.50	7358411	6358413
		-1,6								







V

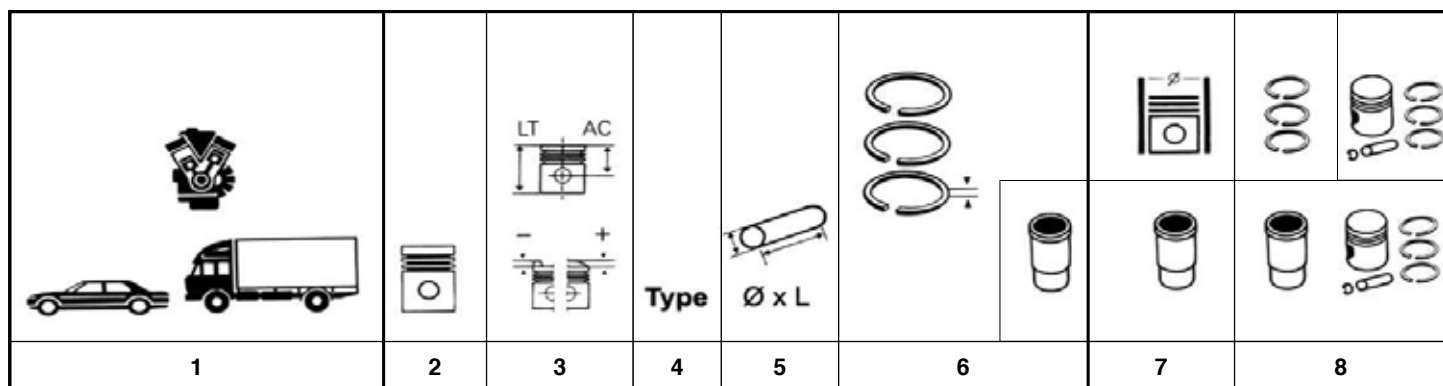
1	2	3	4	5	6		7	8	
VOLKSWAGEN									
AJM 1896 cc, 19.5:1, 85 KW (115 HP) Turbodiesel Bora 1.9 TDI (11/1998...07/2001) Golf IV 1.9 TDI (05/1999...07/2001), Passat 1.9 TDI (01/1999...12/1999)	70964.1 79,5 4   07-0701 Cilindros 1/2 Cylinder	45.8 -1.3-17.8 x 69.8 45.55 -1.3-17.8 x 69.55	G IN CB VC	26 x 66	1 600' 1 995' 1 533	1,750 2,000 3,000	Std. .25 .50	7391705 7391716	6391700 6391711 6391722
ATJ 1896 cc, 18:1, 85 KW (115 HP) Intercooler Passat 1.9 TDI (01/2000...08/2000)	70965.1 79,5 4   07-0701 Cilindros 3/4 Cylinder	45.8 -1.3-17.8 x 69.8 45.55 -1.3-17.8 x 69.55	G IN CB VC	26 x 66	1 600' 1 995' 1 533	1,750 2,000 3,000	Std. .25 .50	7391705 7391716	6391803 6391814 6391825

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8



VOLKSWAGEN

<p>ATD 1896 cc, 19:1, 74 KW (100 HP) Intercooler Bora 1.9 TDI (05/2000...05/2005) Golf IV 1.9 TDI (02/2000...), New Beetle 1.9 TDI (10/2000...), Polo 1.9 TDI (11/2001...05/2005)</p>	<p>70966.1 79,5 4</p> 	<p>45.8 -1.1-17.75 x 69.8</p>	<p>IN G CB VC</p>	<p>26 x 66</p>	<p>1 600' 1,750 1 995' 2,000 1 533 3,000</p>	<p>Std. .25</p>	<p>7391705 6391906 7391716 6391910</p>	<p>7391720 6391921</p>
<p>AVB 1896 cc, 19:1, 74 KW (100 HP) Turodiesel Passat 1.9 TDI (02/2000...05/2005)</p>	<p>07-0701 Cilindros 1/2 Cylinder</p> 	<p>45.55 -1.1-17.75 x 69.55</p>	<p>IN G CB VC</p>	<p>26 x 66</p>	<p>1 600' 1,750 1 995' 2,000 1 533 3,000</p>	<p>Std. .25</p>	<p>7391705 6392002 7391716 6392013</p>	<p>7391720 6392024</p>
<p>AXR 1896 cc, 19:1, 74 KW (101 HP) Intercooler Bora 1.9 TDI (05/2001...05/2005) Golf IV 1.9 TDI /05/2001..., New Beetle 1.9 TDI (06/2003...), Polo 1.9 TDI (11/2001...)</p>	<p>70967.1 79,5 4</p>   <p>07-0701 Cilindros 3/4 Cylinder</p>	<p>45.8 -1.1-17.75 x 69.8</p>	<p>IN G CB VC</p>	<p>26 x 66</p>	<p>1 600' 1,750 1 995' 2,000 1 533 3,000</p>	<p>Std. .25</p>	<p>7391705 6392002 7391716 6392013</p>	<p>7391720 6392024</p>

V



VOLKSWAGEN



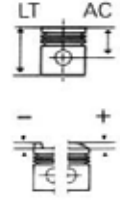

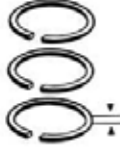


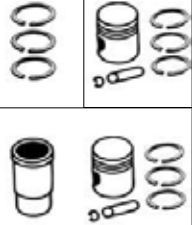
ARL 1896 cc, 19.5:1, 110 KW (150 HP) Intercooler Bora 1.9 TDI (09/2000...05/2005) Golf IV 1.9 TDI (09/2000...)	70968.1	45.8			26	1	600'	1,750	Std.	7391705	6392105
	79,5	-1.1-17.5									
ASZ 1896 cc, 19:1, 96 KW (130 HP) Intercooler Bora 1.9 TDI (04/2001...05/2005) Golf IV 1.9 TDI (04/2001...), Polo 1.9 TDI (11/2003...), Sharan 1.9 TDI (11/2002...)	4	69.8	IN G CB VC						.50	7391720	6392120
		45.55									
AVF 1896 cc, 19:1, 96 KW (130 HP) Intercooler Pasat 1.9 TDI, Passat TDI 4motion (10/2000...05/2005)	70969.1	45.8			26	1	600'	1,750	Std.	7391705	6392201
	79,5	-1.1-17.5									
AWX 1896 cc, 19:1, 96 KW (130 HP) Turbodiesel Pasat 1.9 TDI, Passat TDI 4motion (10/2000...05/2005)	4	69.8	CB G IN VC						.50	7391720	6392223
		45.55									
	07-0701										
	Cilindros 3/4 Cylinder										

			Type					
1	2	3	4	5	6	7	8	







VOLKSWAGEN

1 X 1896 cc, 22.5:1, 45 KW (61 HP) 1989... T4	07950.1 79,51 4/5	39,65 -1,9 x	IN ALM VC	24 x 64	1 394' 1,750 1 095' 2,000 1 533 3,000	Std. .25	7348600 6348602 7348611 6348613
		65,7			1 394' 1,750 1 995' 2,000 1 533 3,000		
1 Y, AEF 1896 cc, 22.5:1, 47/50 KW (64/68 HP) Diesel Passat 1989 ... Golf 1992 ...	 07-9406	39,4 -1,9 x	IN ALM VC	26 x 66	1 394' 1,750 1 995' 2,000 1 533 3,000	Std. .25	7348622 6348624 7348633 6348635
		65,7					
ABB 2370 cc, 22.5:1, 57 KW (78 HP) Diesel 1989... T4						4422213 A=82.5 L=152 C=85.5 H= 4.7	
1.9 AAZ 1896 cc, 22.5:1, 55 KW (75 HP) Catalizador Turbocharged Diesel 1992... Golf, Passat, Vento	70900.1 79,51 4 07-9601	45,65 -1,9 x	A IN ALM VC	26 x 66	1 394' 1,750 1 095' 2,000 1 533 3,000	Std. .25	7349602 6349604 7349613 6349615
		71,7			1 394' 1,750 1 995' 2,000 1 533 3,000		
		45,4 -1,9 x				4422213 A=82.5 L=152 C=85.5 H= 4.7	
		71,7					

V

			Type					
1	2	3	4	5	6	7	8	

VOLKSWAGEN



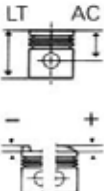





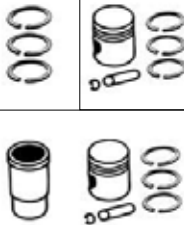
AEY 1996 cc, 19.5:1, 47 KW (64 HP) Golf SDI, Vento SDI 07/95.... Caddy SDI 11/95 ...	70902.1 79,51 4	45.8 -1-17.75 x 71.8	IN VC	26 x 66	1 394' 1,750 1 995 2,000 1 533 3,000	Std. .25	7369401 6369403 7369412 6369414
	  07-9903 Cilindros 1/2 Cylinder	45.55 -1-17.75 x 71.8		IN VC	26 x 66	1 394' 1,750 1 995 2,000 1 533 3,000	Std. .25
	  07-9903 Cilindros 3/4 Cylinder	45.55 -1-17.75 x 71.8	IN VC		26 x 66	1 394' 1,750 1 995 2,000 1 533 3,000	Std. .25
	  07-9903 Cilindros 3/4 Cylinder	45.55 -1-17.75 x 71.8		IN VC	26 x 66	1 394' 1,750 1 995 2,000 1 533 3,000	Std. .25

1	2	3	4	5	6	7	8

VOLKSWAGEN

1 Z 1896 cc, 19.5:1, 66 KW (90 HP) Intercooler Turbocharged Diesel Golf, Passat, TDI, Vento 10/93 ... Sharan TDI 11/95 ...	70951.1	45.8		26	1	394'	1,750	Std.	7369401	6369704
	79,51	-1.1-17.75								
AFN, AHF 1896 cc, 19.5:1, 81 KW (110 HP) Turbocharged Diesel Intercooler Catalizador Golf, Passat, Sharan, Vento	4	71.8	IN VC CB	66	1	533	3,000	.50	7369423	6369726
		45.55								
AHU 1896 cc, 19.5:1, 66 KW (90 HP) Intercooler Turbocharged Diesel Catalizador Caddy, Golf, Passat, Sharan, Vento 08/96....	07-9903		Cilindros 1/2 Cylinder	26	1	394'	1,750	Std.	7369401	6369801
		45.55								
	70952.1	45.8	IN CB VC	66	1	533	3,000	.50	7369423	6369823
	79,51	-1.1-17.75								
	4	71.8	Cilindros 3/4 Cylinder	20	1	341'	1,500	Std.	7348401	6348403
		32.2								
1.8 Ltrs. 1781 cc, 9/10:1, 66/82 KW (90/112 HP) Catalizador Golf GTI, Jetta GLI, Passat, Scirocco 1982 ... Vento 1992 ...	08137.1	32.2	CIN	57	1	933'	3,000	.25	7348412	6348414
	81,01	+1.27-4.4								
1.8 Ltrs. 1781 cc, 10:1, 66 KW (90 HP) Jan. 1983..... Golf Jetta, Passat, Santana, Scirocco	4	62.47		1	1	001'	1,500	Std.	7360102	7360113
		31.9								
	08-9407				1	231	3,000	1.00	7360124	

1	2	3	4	5	6	7	8	VOLKSWAGEN			
			Type								
1	2	3	4	5	6	7	8				
VR 6, AAA 2792 cc, 10:1, 128 KW (174 HP) Inyección Catalizador Sharan 02/96.... Golf, Passat, Vento 1991 ... VR6 2792 cc, 10:1, 132 KW (180 HP) Inyección Catalizador Corrado 1991 ...	08139.1 81,01 6 08-9408	30.45 +4.33-6.15 x 55.78 45.5 -1.35-17.2 x 69.5 45.5 -1.35-17.2 x 69.5	ATM	20 x 57	1 341' 1,500 1 028 1,750 1 933' 3,000	Std. .50 1.00	7348401 7348423 7348434	6358203 6358214 6358225			
ACV. AHD 2461 cc, 19.5:1, 75 KW (102 HP) Diesel Turbo intercooling LT 35 TDI 06/95 ... 06/97 T4. Caravelle TDI 09/95 ... 04/98 AGX 2461 cc, 19.5:1, 55 KW (75 HP) Diesel LT 28 SDI 5/96 ...	80101.1 81,01 5 08-0104 Cilindros 1/2 Cylinder	45.75 -1.35-17.2 x 69.75 45.5 -1.35-17.2 x 69.5 45.5 -1.35-17.2 x 69.5	A IN CB VC	26 x 68	1 653' 2,500 1 095 2,000 1 533 3,000	Std. .25 .50	7380704 7380715 7380726	6380500 6380511 6380522			
	80102.1 81,01 5 08-0104 Cilindros 3/4/5 Cylinder	45.75 -1.35-17.2 x 69.75 45.5 -1.35-17.2 x 69.5 45.5 -1.35-17.2 x 69.5	A IN CB VC	26 x 68	1 653' 2,500 1 095 2,000 1 533 3,000	Std. .25 .50	7380704 7380715 7380726	6380706 6380710 6380721			

			Type	 $\varnothing \times L$			 	
1	2	3	4	5	6	7	8	8

VOLKSWAGEN

2L II
 2446 cc, 21:1, 61 KW (83 HP)
 02/89.....93
 Taro



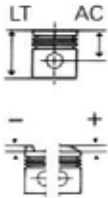

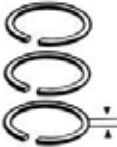

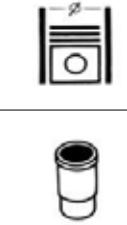
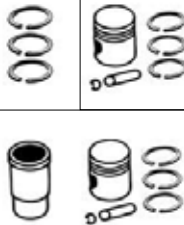
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See Toyota



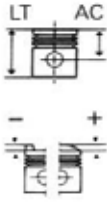
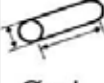
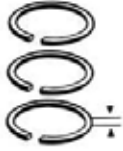


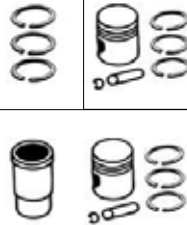


V

INDICE / INDEX

Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
								VOLVO (See also Perkins, Renault, Volkswagen)		
1.1 Ltrs.	Renault	8.5:1	4	70	1108	33/34.5	45/47	Volvo 66 DL, Volvo 66 L, Volvo 66 Station Wagon	07144.5	250
1.3 Ltrs.	Renault	9.5:1	4	73	1289	51	70	Volvo 66 GL, Volvo 66 DL, Volvo 66 Kombi	07389.4	251
3.152 D	Perkins	17.4:1	3	91.49	2490	32.5	44	T430	09179.3	213
B 14 OE	Renault	9.5:1	4	76	1397	51	70	345 L, Volvo 343 DL, Volvo 343 L, Volvo 343 GL, 345 GL, 345 DL	07768.1	253
B 20 F	Renault	9.5:1	4	82.7	1998	81	110	460	08159.1	259
B14	Renault	9.3:1	4	76	1397	46/51	63/70	Volvo 343 L, Volvo 343 DL, Volvo 343 GL, 345 DL, 345 GL, 345 L	07768.1	253
B172K, B18KP /KPD	Renault	10:1	4	81	1721	60.5/64 /66	82/87/90	340, 360, 440, 460, 480	08129.1	258
D 24	Volkswagen	23.5:1	6	76.51	2383	60	82	240 GL SW, 760 GLE D6, 244 GL D6, 245 GL D6, 240 GI D6	70655.1	287
D 5252 T		20:1	5	81.01	2461	103	140	850 TDI, S / V 70	80120.1 80122.1	298 299
D16	Renault	22.5:1	4	78	1595	40.5	55	340, 360	70802.1	256
D24 TD	Volkswagen	23:1	6	76.51	2383	80/95	109/129	Volvo 780, Volvo 760, Volvo 740	70655.1	287
D24 TD	Volkswagen	23.5:1	6	76.51	2383	80/95	109/129	760 Turbo, 780 Turbo	70655.1	287
F3N	Renault	9.5:1	4	82.7	1721	55	75	340, 360	08136.1	259
F8 QT-740/768 /610/784/785	Renault	20.5:1	4	80	1870	66	90	460 Turbo 1.9 TDi, 440	80007.1	257
4.236	Perkins			98,476	3864			F82, F83	09820.4	

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8
VOLVO								
1.1 Ltrs. 1108 cc, 8.5:1, 33/34.5 KW (45/47 HP) Aug.1975-1981 Volvo 66 DL, Volvo 66 L, Volvo 66 Station Wagon	07144.5 70 4							See Renault
1.3 Ltrs. 1289 cc, 9.5:1, 51 KW (70 HP) Aug.1975-1981 Volvo 66 DL, Volvo 66 GL, Volvo 66 Kombi	07389.4 73 4							See Renault
B 14 OE 1397 cc, 9.5:1, 51 KW (70 HP) 345 DL, 345 GL, 345 L, Volvo 343 DL, Volvo 343 GL, Volvo 343 L B14 1397 cc, 9.3:1, 46/51 KW (63/70 HP) 345 L 345 DL, 345 GL, Volvo 343 DL, Volvo 343 GL, Volvo 343 L	07768.1 76 4							See Renault
D 24 2383 cc, 23.5:1, 60 KW (82 HP) Diesel 1979... 240 GI D6 240 GL SW, 244 GL D6, 245 GL D6, 760 GLE D6 D24 TD 2383 cc, 23:1, 80/95 KW (109/129 HP) Turbocharged Diesel 1982... Volvo 740 Volvo 760, Volvo 780 D24 TD 2383 cc, 23.5:1, 80/95 KW (109 /129 HP) Turbocharged-Intercooled Diesel Oct. 1988..... 760 Turbo 780 Turbo	70655.1 76,51 6							See Volkswagen

V

1	2	3	4	5	6	7	8	VOLVO	
1	2	3	4	5	6	7	8	VOLVO	
			Type	 Ø x L					See Renault
D16 1595 cc, 22.5:1, 40.5 KW (55 HP) Diesel 340, 360	70802.1 78 4							See Renault	
F8 QT-740/768/610/784/785 1870 cc, 20.5:1, 66 KW (90 HP) Turbocharged Diesel 440 1993 ... 460 Turbo 1.9 TDi 1994 ...	80007.1 80 4							See Renault	
B172K, B18KP/KPD 1721 cc, 10:1, 60.5/64/66 KW (82/87/90 HP) 1985... 340, 360, 440, 460, 480	08129.1 81 4							See Renault	
F3N 1721 cc, 9.5:1, 55 KW (75 HP) Inyección Catalizador 1987... 340, 360	08136.1 81 4							See Renault	
D 5252 T 2461 cc, 20:1, 103 KW (140 HP) Diesel Turbo intercooling 850 TDI 95 ... 96 S/ V 70 96 ...	80120.1 81,01 5   08-0301 Cilindros 1/2 Cylinder	45.75 -1.35-17.2 x 69.75 45.50 -1.35-17.2 x 69.50	IN CB VC	26 x 68	1 653' 2,500 1 095 2,000 1 533 3,000	Std. .50	7380704 6385002 7380726 6385013		



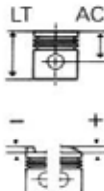

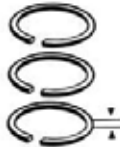


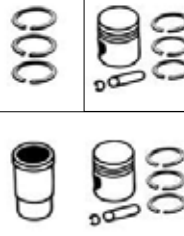
			Type					
1	2	3	4	5	6	7	8	

VOLVO



D 5252 T 2461 cc, 20:1, 103 KW (140 HP) Diesel Turbo intercooling 850 TDI 95 ... 96 S/ V 70 96 ...	80122.1 81,01 5	45.75 -1.35-17.2 x 69.75	CB VC IN	26 x 68	1 653' 2,500 1 095 2,000 1 533 3,000	Std. .50	7380704 6385105 7380726 6385116
	 08-0301 Cilindros 3/4/5 Cylinder	45.50 -1.35-17.2 x 69.5					
B 20 F 1998 cc, 9.5:1, 81 KW (110 HP) 1993-1996 460	08159.1 82,7 4						See Renault
3.152 D 2490 cc, 17.4:1, 32.5 KW (44 HP) Direct Injection Diesel T430	09179.3 91,49 3						See Perkins
4.236 3864 cc F82, F83 09/1975... 01/1986	09820.4 98,476						See Perkins

INDICE / INDEX

Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
WABCO										
Compresor			1	85					08501.1	301

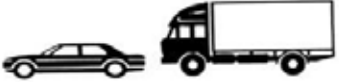

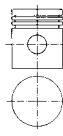
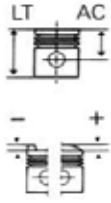
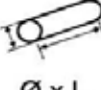
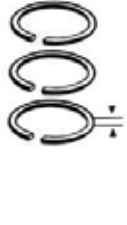

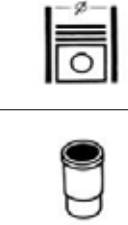
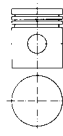

			Type	 $\varnothing \times L$				
1	2	3	4	5	6	7	8	8

WABCO



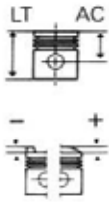









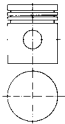
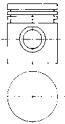
Compresor	08501.1 85 1   08-0002	33,3 x 53,3		19.05 x 60	1 023 2,000 1 023 2,000 1 232 4,000	Std. .50 1.00	7370101 7370112 7370123	6370103 6370114 6370125
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INDICE / INDEX

Motor / Engine	Marca Mark	Ref. Comp. / Comp. Ratio ε	Cyl.	Ø Cyl.	c.c.	Potencia / Power		Vehículo / Vehicle	Ref. TSA	Pág. Page
						Kw	HP			
WESTINGHOUSE										
15-5W37, W31			2	75				Water Cooled	07647.1	304
15W37, WB 15			2	75				Air Cooled	07647.1	304
Compressor			2	57.15				E 7, E 9	05123.1	303
Compressor 159			1	75					07500.1	303
Compressor NDR			2	90					09102.1	304
TU-FLO 500			2	63.5				Compressor	06351.1	303

1	2	3	4	5	6	7	8
WESTINGHOUSE							
 Compressor E 7, E 9	 05123.1† 57,15 2,250" 2  05-0141	 32,54 x 58,74	Type Ø x L	 15.875 x 47.625	 1 005 3,175 1 005 3,175 1 030 3,969	 Std. .020	 7389303 6389305 7389314 6389316
TU-FLO 500 Compressor	06351.1 63,5 2,500" 2  06-9001	26,85 x 50		13.494 x 56	1 045 2,381 1 045 2,381 1 030 2,381	Std. .010 .020 .030 .040	7337901 6337903 7337912 6337914 7337923 6337925 7337934 6337936 7337945 6337940
Compressor 159	07500.1 75 1  07-8604	28 x 57		15 x 50	1 023 2,000 1 023 2,000 1 232 4,000	Std. .50	7279403 6279405 7279414 6279416

† Hasta agotar existencias / Availability only from stock.

1	2	3	4	5	6	7	8	WESTINGHOUSE	
			Type	 Ø x L			 	 	 
1	2	3	4	5	6	7	8	WESTINGHOUSE	
15-5W37, W31 Water Cooled 15W37, WB 15 Air Cooled	07647.1 75 2,953" 2  07-4976	32,13 x 52,78		15.875 x 60.3	1 023 2,381 1 023 2,381 1 232 3,968	Std. .010 .020 .030 .040		7343700 7343722 7343733 7343744 7343755	6231105 6231131 6231116 6231142 6231153
Compressor NDR	09102.1 90 1/2  09-8402	32 x 62		20 x 60	1 023 2,500 1 023 2,500 1 232 4,000	Std. .50 1.00 1.50		7267304 7267315 7267326 7267330	6267306 6267310 6267321 6267332

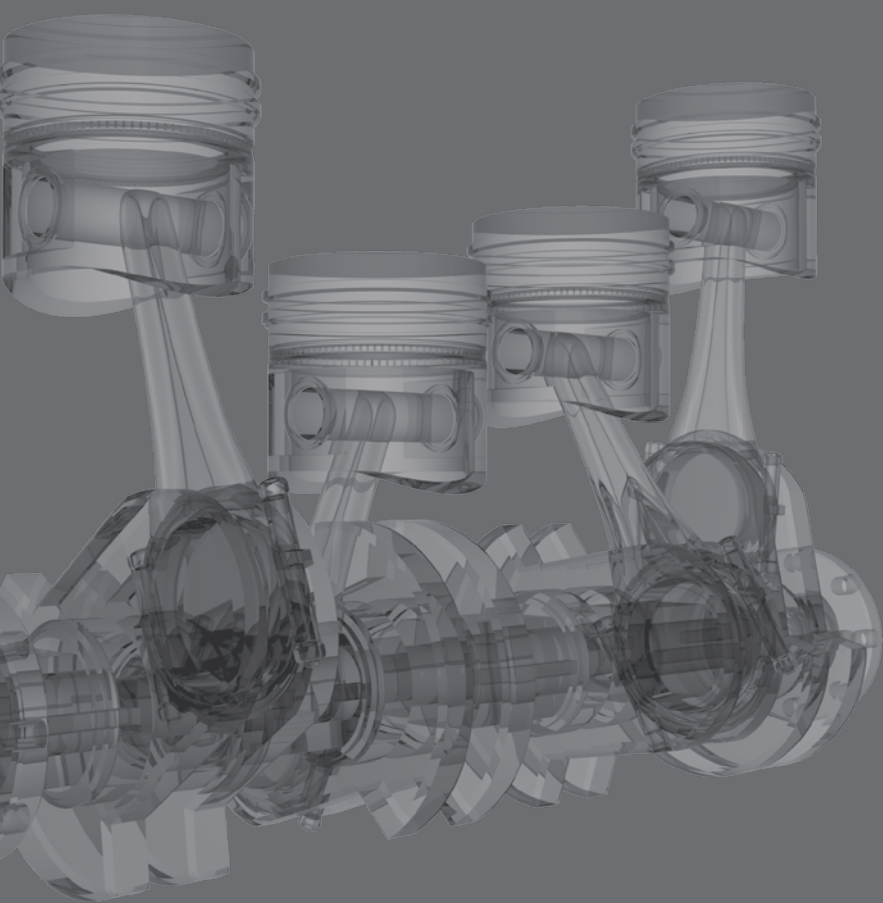
CATÁLOGO 2011 CATALOGUE

PISTONES AROS EJES CAMISAS PISTONS RINGS PINS LINERS

**Lista por
diámetros de
cilindros**

**Cylinder
diameters list**

**Liste pour
diametres de
cylindres**



TARABUSI
GRUPO **CIE** AUTOMOTIVE

PISTON-PISTON				MARCA MAKE
CILINDRO CYLINDER Ø mm	ALTURA COMPRESION COMPRESSION HEIGHT	PISTON EN BRUTO RAW CASTING	REF. PISTON PISTON REF.	
57,15	32.54	05-0141	05123.1	Compresor /Westinghouse
58	30	05-2977	05808.1	Renault
60,325	30.99	06-0033	06042.1	Bendix /Compresor
62	30.75	06-2977	06164.5	Fiat /Seat
63,5	26.85	06-9001	06351.1	Bendix /Compresor /Westinghouse
65	30.75	06-4975	06679.3	Fiat /Seat
65,5	24.55	06-8701	06167.1	Bedford /Opel /Suzuki
66,675	21.97	06-1072	06721.8	Bendix /Compresor
70	40	07-1177	07144.5	Daf /Renault /Volvo
71,5	37.5	07-8601	07180.1	Renault
72	40.05	07-4979	07200.1	Citroen /Peugeot
73	37.5+0.25	07-5977	07389.4	Daf /Renault /Volvo
73,7	42.94-1.55	07-0702	70300.1	Citroen /Ford /Peugeot
74	29.05	07-0003	07040.1	Suzuki
74	39.13	07-8706	07401.1	Ford
74	28.3	07-8902	07402.1	Suzuki
74	29.4	07-8906	07404.1	Ford
74	29.25-3.1	07-8602	07406.1	Suzuki
74	29.4-3.5	07-9001	07407.1	Ford
75	28	07-8604	07500.1	Compresor /Westinghouse
75	28.3	07-8806	07501.1	Suzuki
75	40.5	07-8979	07524.1	Citroen /Peugeot
75	28.3	07-9301	07526.1	Suzuki
75	31	07-9401	07527.1	Compresor /Knorr
75	32.13	07-4976	07647.1	Bendix /Compresor /Scania /Westinghouse
75	40.5	07-8979	07784.1	Citroen /Peugeot /Renault /Talbot
75	42.96	07-9405	70508.1	Citroen /Peugeot
75	41.7-1.16	07-0901	70510.1	Citroen /Ford /Mazda /Peugeot
75,8	35.08-1.23	07-9902	07582.1	Renault
75,8	31.7	07-9402	07601.1	Renault
76	37.5+1	07-8807	07602.1	Renault
76	32.6+1.85	07-9801	07630.1	Ford
76	37.5	07-4977	07768.1	Renault /Volvo
76	42-14.18	07-8802	70600.1	Lister-Petter
76	41.7-0.5	07-9303	70604.1	Isuzu /Opel
76	41.7-0.5	07-9303	70605.1	Isuzu /Opel
76	41.78-0.3	7-0601	70606.1	Renault
76	41.07-0.25	07-1001	70608.1	Renault
76	41.07-0.25	07-1001	70609.1	Renault
76	41.78-0.3	7-0601	70610.1	Renault
76,2	45.76	07-0152	70619.1	Ebro /Massey Ferguson /Perkins
76,51	41.7	07-9501	70655.1	Audi /Volkswagen /Volvo
77	40.37-1.65	07-0002	70700.1	Citroen /Nissan-Motor Iberica /Peugeot
77,6	32.05-2.6	07-9603	07765.1	Opel
77,6	32.05-3.4	07-9603	07776.1	Opel
77,6	32.05+1	07-9603	07782.1	Opel
78	31	07-9701	07801.1	Knorr
78	38.5	07-9602	07804.1	Mazda
78	47.25	07-8602	70802.1	Renault /Volvo
79	40.5	07-7978	07900.1	Renault
79	28-0.8	07-9404	07907.1	Opel
79	28.4+0.4	07-9404	07937.1	Opel

PISTON-PISTON				MARCA MAKE
CILINDRO CYLINDER Ø mm	ALTURA COMPRESION COMPRESSION HEIGHT	PISTON EN BRUTO RAW CASTING	REF. PISTON PISTON REF.	
79	39.7-1.4	07-9604	70901.1	Isuzu /Opel
79	39.7-0.4	07-9604	70904.1	Isuzu /Opel
79	39.75-14	07-0703	70905.1	Opel
79	39.75-14.10	07-0703	70906.1	Opel
79	39.75-14.10	07-0704	70907.1	Opel
79,375	50.62	07-1073	70933.5	Perkins
79,375	50.6	07-9979	70937.2	Perkins /Seat
79,5	45.8-1.3	07-0701	70964.1	Audi /Ford /Seat /Volkswagen
79,5	45.8-1.3	07-0701	70965.1	Audi /Ford /Seat /Volkswagen
79,5	45.8-1.1	07-0701	70966.1	Audi /Seat /Skoda /Volkswagen
79,5	45.8-1.1	07-0701	70967.1	Audi /Seat /Skoda /Volkswagen
79,5	45.8-1.1	07-0701	70968.1	Audi /Ford /Seat /Skoda /Volkswagen
79,5	45.8-1.1	07-0701	70969.1	Audi /Ford /Seat /Skoda /Volkswagen
79,51	39.65-1.9	07-9406	07950.1	Audi /Seat /Volkswagen
79,51	45.65	07-9601	70900.1	Audi /Seat /Volkswagen
79,51	45.8-1	07-9903	70902.1	Seat /Skoda /Volkswagen
79,51	45.8-1	07-9903	70903.1	Seat /Skoda /Volkswagen
79,51	45.8-1.1	07-9903	70951.1	Audi /Ford /Seat /Skoda /Volkswagen
79,51	45.8-1.1	07-9903	70952.1	Audi /Ford /Seat /Skoda /Volkswagen
80	31	08-0001	08024.1	Knorr
80	33.5	08-9903	08033.1	Bendix /Compresor
80	36.59+7.12	08-9004	08134.1	Ford
80	41.71	08-9603	80007.1	Renault /Volvo
80	47.29-1	08-0101	80016.1	Renault
80	47.04-075	08-0702	80020.1	Nissan-Motor Iberica /Renault
80	46.65-1.55	08-8601	80031.1	Ford
80	46.8	08-8505	80032.1	Citroen /Peugeot
80	42	08-8504	80033.1	Peugeot
80	46.8	08-9005	80047.1	Citroen /Peugeot
80	42.5-0.7	08-9304	80048.1	Renault
80	52	08-8002	80451.1	Lombardini
80	39.45-2.5	08-0202	80452.1	B M W /Opel
80,5	33.3-2.9	08-9410	08051.1	Fiat
80,6	33.2	08-9801	08142.1	Ford
81	44.1	08-8701	08129.1	Renault /Volvo
81	44.2-14.26	08-8701	08136.1	Renault /Volvo
81,01	32.2+1.27	08-9407	08137.1	Audi /Seat /Volkswagen
81,01	30.45+4.33	08-9408	08139.1	Ford /Mercedes-Benz /Seat /Volkswagen
81,01	45.75-1.35	08-0104	80101.1	Volkswagen
81,01	45.75-1.35	08-0104	80102.1	Volkswagen
81,01	45.75-1.35	08-0301	80120.1	Audi /Volvo
81,01	45.75-1.35	08-0301	80122.1	Audi /Volvo
82,2	46.7-1.25	08-0302	80222.1	Citroen /Peugeot
82,5	45.7-1.6	08-9403	80220.1	Ford /Mazda
82,5	45.65-1.5	08-9403	80221.1	Ford
82,5	44.95-1.6	08-9404	80259.1	Opel
82,6	42.2+2.50	08-9301	80266.1	Fiat
82,7	33.55-3	08-9803	08158.1	Renault
82,7	36.12-9.08	08-9902	08159.1	Renault /Volvo
83	37.5	08-8901	08155.1	Citroen /Peugeot

PISTON-PISTON				MARCA MAKE
CILINDRO CYLINDER Ø mm	ALTURA COMPRESION COMPRESSION HEIGHT	PISTON EN BRUTO RAW CASTING	REF. PISTON PISTON REF.	
83	37.5	08-8901	08156.1	Citroen /Peugeot
83	37.5	08-8901	08157.1	Citroen /Peugeot
83	37.5-9	08-9302	08301.1	Citroen /Peugeot
83	37.5	08-8901	08317.1	Citroen /Peugeot
83	46.8-2.2	08-9601	80300.1	Citroen /Fiat /Peugeot
83	48-0.65	08-5976	80301.2	Nissan-Motor Iberica
83	46.8	08-8403	80374.1	Citroen /Lada /Peugeot /Talbot
84	38.45-3.6	08-8004	08671.2	Fiat /Seat
84	45.8-1.2	08-0201	80446.1	Opel
84	45.8-1	08-0201	80447.1	Opel
84	45.8-1	08-0201	80448.1	Opel
84	45.8-1	08-0201	80449.1	Opel
84,442	48-0.5	08-9006	80444.1	Austin /Perkins
84,442	48-0.75	08-9006	80445.1	Austin /Perkins
85	33.3	08-0002	08501.1	Compresor /Wabco
85	52	08-6973	80517.1	Lombardini
85	60	08-5975	80518.1	Diter /M W M
85	46.4-1.95	08-8202	80519.1	Nissan-Motor Iberica
85	46.48-1.33	08-8605	80523.1	Nissan-Motor Iberica
85	46.9-1.4	08-9605	80530.1	Nissan-Motor Iberica
85	46.75-1	08-0203	80534.1	Citroen /Fiat/iveco /Peugeot
86	30.4-5	08-9409	08603.1	Opel
86	30.4-5	08-9409	08604.1	Opel
86	40-5.02	08-9501	08607.1	Citroen /Peugeot
86	26.50	08-9604	08695.1	Compresor /Iveco /Knorr
86	39.1-2.74	08-9602	08837.1	Citroen /Peugeot
86	43.15	08-8801	80524.1	Lister-Petter
86	43.15-4	08-8802	80525.1	Lister-Petter
86	43.15-15.5	08-9402	80529.1	Lister-Petter
86	44	08-8703	80604.1	Lombardini
86	51-2.2	08-8404	80605.1	Renault
86	47.2-1.2	08-9901	80607.1	Ford /Mazda
86	50.99-4	08-9701	80610.1	Renault
86	50.99-0.39	08-9701	80611.1	Renault
86,4	33.3-2.3	08-9405	08640.1	Fiat /Peugeot
87	52.9-1.2	08-8201	80700.1	Mercedes-Benz /Seat
87	47.23-1.15	08-9001	80701.1	Nissan-Motor Iberica
87	44.85-1.05	08-9003	80702.1	Mercedes-Benz
87	44.85-1.05	08-9003	80702.2	Mercedes-Benz
87	54.53-17.5	8-0801	80705.1	Renault
87	54.53-17.5	8-0801	80706.1	Nissan-Motor Iberica /Opel /Renault
87	48.25-1.1	08-8302	80720.3	Mercedes-Benz /Seat
88	31.5	08-9401	08804.1	Compresor /Knorr
88	40.5+1.55	08-8603	08819.1	Citroen /Peugeot /Renault
88	31	08-9401	08839.1	Compresor /Knorr
88	46.5-0.5	08-9303	80816.1	Bedford /Isuzu /Opel
88	42.30-13.8	8-0803	80817.1	Mercedes-Benz
88	42.30-14.1	8-0803	80818.1	Mercedes-Benz
88	42.30-13.3	8-0804	80819.1	Mercedes-Benz
88,9	50.9	08-0056	08578.1	Case /I.H.C /International-Harvester

PISTON-PISTON				MARCA MAKE
CILINDRO CYLINDER Ø mm	ALTURA COMPRESION COMPRESSION HEIGHT	PISTON EN BRUTO RAW CASTING	REF. PISTON PISTON REF.	
89	44.65-1.05	08-0003	80901.1	Mercedes-Benz
89	44.75-0.35	08-0105	80902.1	Mercedes-Benz
89	53.03	8-0601	80903.1	Nissan-Motor Iberica /Opel /Renault /Vauxhall
89			80904.1	Nissan
90	46	09-8001	09061.1	Compresor /Pegaso
90	32	09-8402	09102.1	Compresor /Westinghouse
90	35	09-9502	09133.1	Compresor /Man /Mercedes-Benz
90	52.2	09-8902	90018.1	Toyota
90	57.2	09-2978	90020.1	Ford /Opel /Peugeot /Volvo
90,475	54.43	09-8605	09125.1	Land Rover
90,475	58.72-6.4	09-0071	09731.1	Land Rover
90,475	58.72	09-1977	09731.7	Land Rover
90,475	54.7	09-8502	90407.1	Land Rover
90,475	55.4-18.85	09-9903	90471.1	Land Rover
90,475	55.4-18.4	09-9902	90476.1	Land Rover
90,9	48.35-1.13	09-8203	90016.1	Mercedes-Benz
90,9	48.35-1.15	09-8203	90090.1	Mercedes-Benz
91	48.35-1.13	09-8203	90010.2	Mercedes-Benz
91,1	48.7-2.8	09-9703	90101.1	Mitsubishi
91,1	48.7-2.8	09-9704	90102.1	Mitsubishi
91,1	48.7-2.8	09-9704	90103.1	Mitsubishi
91,1	48.7	09-9704	90108.1	Hyundai /Mitsubishi
91,1	48.7	09-9704	90109.1	Hyundai /Mitsubishi
91,49	61.95	09-8501	09179.3	Ebro /Massey Ferguson /Perkins /Volvo
91,49	57.25	09-0061	09750.1	Ebro /Fordson /Massey Ferguson /Perkins
91,49	61.85	09-0101	90149.1	Perkins
92	31	09-9601	09200.1	Knorr
92	49.2-2.5	09-9802	90210.1	Toyota
92	44.3-1.9	09-9803	90211.1	Toyota /Volkswagen
92	49.84-2.3	09-0002	90212.1	Citroen /Daf /Fiat /Peugeot
92	49.9-1.9	09-0102	90213.1	Citroen /Peugeot
93	55	09-8202	90300.1	Fiat /Iveco /Renault /Seat
93	52.75	09-8901	90301.1	Citroen /Fiat /Peugeot
93	54	09-8202	90302.1	Renault
93	54	09-8202	90302.2	Fiat
93	58.75-16.9	09-9701	90303.1	Fiat
93	59.65-14.8	09-9801	90304.1	Fiat /Iveco /Renault
93	58.75-17.9	09-9702	90305.1	Fiat /Renault
93	51.85-0.55	09-0001	90306.1	Isuzu
93,67	59.53	09-9901	90360.1	Ford
93,67	59.48-0.68	09-8602	90367.1	Ford
94	57.42	09-1978	90402.1	Peugeot
94	60.6	09-8102	90403.1	Nissan-Motor Iberica
94	60.645	09-8204	90404.1	Nissan-Motor Iberica
94	57.37	09-8304	90405.1	Peugeot /Talbot
94	57.42	09-1978	90406.1	Ford /Peugeot /Talbot
94	60.6	09-8102	90410.1	Nissan-Motor Iberica
94	53.92	09-8304	90411.1	Citroen /Daf /Ford /Peugeot
94	50.04-1.35	09-8607	90412.1	Ebro /Nissan-Motor Iberica
94	53.87	09-9705	90414.1	Daf /Ford /Leyland /Peugeot /Ssangyong
94,4	58.75-19.45	09-0801	90415.1	Fiat

PISTON-PISTON				MARCA MAKE
CILINDRO CYLINDER Ø mm	ALTURA COMPRESION COMPRESSION HEIGHT	PISTON EN BRUTO RAW CASTING	REF. PISTON PISTON REF.	
94,4	58.75-21	09-0801	90416.1	Fiat
94,4	58.75	09-0003	90440.1	Fiat /Iveco /Renault
95	60	05-5975	09509.1	Diter /M W M
95	59.95	09-1976	09533.1	Lombardini
95	59.65	09-5971	90500.1	Fiat
95	59.8	09-5975	90501.1	Diter /M W M /Renault
95	52.2	09-9101	90512.1	Toyota
95	63.4	09-9602	90513.1	Toyota
95,25	65.09	09-3977	90525.2	Lister-Petter
96	50.45	09-9001	90600.1	Ford /Nissan-Motor Iberica
96	50.45-1.3	09-9401	90601.1	Nissan-Motor Iberica
96	53.1-0.2	09-9904	90604.1	Nissan-Motor Iberica
96	53.1-20	09-9904	90605.1	Nissan-Motor Iberica
96	53.1-0.2	9-9904	90606.1	Nissan-Motor Iberica
97	65.2	09-8604	09775.3	Mercedes-Benz
97	65.2-2.2	09-8701	90705.1	Mercedes-Benz
97	65.2	09-8701	90706.1	Mercedes-Benz
97,996	57.3	09-8606	09806.1	John Deere-Lanz
98,42	66.9	09-8702	90017.1	Case /I.H.C /International-Harvester
98,425	67	09-8702	90011.1	Case /I.H.C /International-Harvester
98,425	67	09-8703	90012.1	Case /I.H.C /International-Harvester
98,425	67	09-8702	90013.1	Case /I.H.C /International-Harvester
98,425	67	09-8703	90014.1	Case /I.H.C /International-Harvester
98,476	70.19	09-1967	09820.1	Ebro /Perkins
98,476	70.19	09-1967	09820.3	Perkins
98,476	70.19	09-1967	09820.4	Massey Ferguson /Perkins
98,476	70.19	09-1967	09840.5	Massey Ferguson /Perkins
98,476	76.53	09-4976	90400.1	Massey Ferguson /Perkins
98,476	70.08	09-8002	90487.1	Perkins
98,476	70.08	09-8002	90845.2	Perkins
98,476	70.08	09-8002	90847.2	Perkins
98,476	70.6	09-1967	90849.1	Perkins
98,48	70.4	09-4977	90844.1	Ebro /Massey Ferguson /Perkins
100	70.27	10-0601	10003.1	Nissan-Motor Iberica
100	65	10-8002	10005.1	Lombardini
100	65	10-1969	10097.1	Lombardini
100	71.9+4	10-8104	10139.1	Deutz /K.H.D.
100	59.8	10-3973	10179.1	Diter /M W M /Renault
100	65	10-2979	10232.1	Lombardini
100	75-2	10-0056	10239.1	Campeon
100	70.25	10-8501	10241.1	Ebro /Nissan-Motor Iberica /Perkins
100	60.4	10-3973	10251.1	Diter /M W M /Renault
100	63.4	10-8401	10255.1	Steyr
100	61.4-22.48	10-8802	10282.1	Lister-Petter
100	67	10-9001	10284.1	Case /I.H.C /International-Harvester
100	70.27	10-9501	10285.1	Nissan-Motor Iberica
100	70.97-1.7	10-0049	10898.1	Ebro /Ford /Fordson
101,054	70.25	10-9901	10105.1	Perkins
101,054	70.19	10-2972	10148.1	Perkins
101,054	70.71	10-4971	10216.1	Perkins

PISTON-PISTON				MARCA MAKE
CILINDRO CYLINDER Ø mm	ALTURA COMPRESION COMPRESSION HEIGHT	PISTON EN BRUTO RAW CASTING	REF. PISTON PISTON REF.	
101,982	66.3	10-8801	10199.1	John Deere-Lanz
101,982	57.3	10-5968	10202.1	John Deere-Lanz
102	60	10-1978	10230.1	Lombardini
102	60.4	10-3973	10259.1	Diter /M W M
102	69.1+6	10-9801	10287.1	Deutz /Iveco /K.H.D.
102	69.1+6	10-9801	10291.1	Deutz /Iveco /K.H.D.
102	69.16	10-9801	10293.1	Deutz /K.H.D.
102,019	71.58	10-0003	10295.1	Cummins /Daf
102,019	71.5	10-0003	10296.1	Cummins /Daf
102,019	71.5	10-0003	10297.1	Cummins /Daf
104	65.15	10-9803	10458.1	Fiat /K.H.D.
104	65.15	10-9802	10459.1	Fiat /K.H.D.
105	59.1	10-0002	10502.1	Caterpillar
105	59.1	10-0002	10508.1	Caterpillar
106,482	66.3	10-0001	10610.1	John Deere-Lanz
106,482	66.3	10-8205	10668.1	John Deere-Lanz
106,482	66.3	10-1977	10670.1	John Deere-Lanz
107,2	82.1-2.2	10-3971	10757.1	Pegaso
107,21	82.1-2.3	10-0015	10768.2	Pegaso
107,226	82.1-2.3	10-9003	10785.1	Leyland
110	75.2	11-9002	11059.1	Fiat
114,3	58.88	11-0101	11433.1	Caterpillar
114,3	58.88	11-0101	11437.1	Caterpillar
114,3	58.88	11-0101	11445.1	Caterpillar
114,3	58.88	11-0102	11447.1	Caterpillar
118	102.5-2	11-1971	11800.1	Pegaso
120	102	12-2969	12028.1	Pegaso
120	102.5	12-2969	12084.1	Pegaso
120	101.95-2	12-2969	12096.1	Pegaso
120,65	73.9-6.67	12-8501	12080.1	Caterpillar
130	90.65	13-1976	13081.1	Barreiros
130	99.6-1.6	13-1969	13087.2	Pegaso
130	99.6-1.6	13-1969	13108.1	Pegaso
130	99.6-1.35	13-8302	13129.1	Pegaso
130	99.6-1.35	13-9001	13129.2	Pegaso

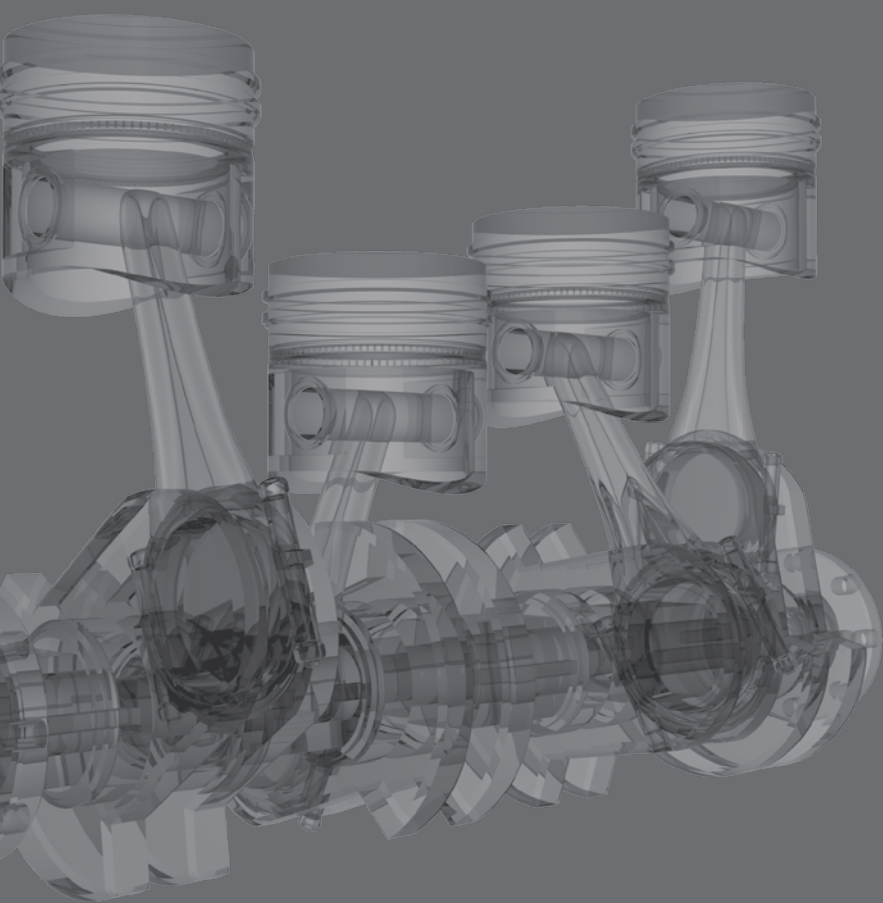
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PISTONES AROS EJES CAMISAS PISTONS RINGS PINS LINERS

**Lista por
referencias de
pistón completo**

**Piston assemblies
reference list**

**Liste pour
references de
piston complete**



TARABUSI
GRUPO **CIE** AUTOMOTIVE

REF. PISTON COMPLETO PISTON ASSEMBLY REF.	CILINDRO CYLINDER Ø mm	MARCA MAKE	REF. PISTON COMPLETO PISTON ASSEMBLY REF.	CILINDRO CYLINDER Ø mm	MARCA MAKE
6026506	91,49	Ebro /Fordson /Massey Ferguson /Perkins	6238201	100	Diter /M W M /Renault
6049002	107,21	Pegaso	6238503	102	Diter /M W M
6056805	93	Fiat /Iveco /Renault /Seat	6238606	90,475	Land Rover
6058102	102	Lombardini	6239203	85	Nissan-Motor Iberica
6060600	79,375	Perkins	6239306	94	Nissan-Motor Iberica
6060902	101,054	Perkins	6239402	94	Nissan-Motor Iberica
6061101	94	Peugeot	6240102	65,5	Bedford /Opel /Suzuki
6061602	98,48	Ebro /Massey Ferguson /Perkins	6243204	80	Ford
6099903	100	Deutz /K.H.D.	6244501	80	Citroen /Peugeot
6107102	75	Citroen /Peugeot /Renault /Talbot	6244906	80	Peugeot
6114500	98,425	Case /I.H.C /International-Harvester	6248701	79,375	Perkins /Seat
6137806	130	Pegaso	6251604	94	Citroen /Daf /Ford /Peugeot
6140503	100	Lombardini	6251803	90	Compresor /Pegaso
6141203	100	Campeon	6252304	78	Renault /Volvo
6150001	90,475	Land Rover	6252606	83	Nissan-Motor Iberica
6157502	91,49	Ebro /Massey Ferguson /Perkins /Volvo	6253306	88	Citroen /Peugeot /Renault
6158401	98,476	Ebro /Perkins	6254205	97	Mercedes-Benz
6161201	90,475	Land Rover	6259901	98,476	Perkins
6168901	87	Mercedes-Benz /Seat	6264204	97	Mercedes-Benz
6169601	98,476	Perkins	6264300	97	Mercedes-Benz
6170404	98,476	Massey Ferguson /Perkins	6264801	85	Lombardini
6171200	120	Pegaso	6264904	98,425	Case /I.H.C /International-Harvester
6171701	120	Pegaso	6265000	98,425	Case /I.H.C /International-Harvester
6183306	90,475	Land Rover	6267306	90	Compresor /Westinghouse
6195700	120	Pegaso	6267402	81	Renault /Volvo
6197100	98,476	Perkins	6272206	130	Pegaso
6197203	87	Mercedes-Benz /Seat	6273105	98,476	Perkins
6197306	90,9	Mercedes-Benz	6273304	93,67	Ford
6206303	98,476	Massey Ferguson /Perkins	6276200	85	Nissan-Motor Iberica
6214305	85	Diter /M W M	6276406	90,475	Land Rover
6217304	95	Lombardini	6276502	94	Nissan-Motor Iberica
6217606	100	Lombardini	6276605	74	Suzuki
6221202	94	Peugeot /Talbot	6278005	86	Lombardini
6222602	100	Steyr	6278204	91	Mercedes-Benz
6223604	106,482	John Deere-Lanz	6278506	90,9	Mercedes-Benz
6223700	106,482	John Deere-Lanz	6279405	75	Compresor /Westinghouse
6224400	94	Ford /Peugeot /Talbot	6290001	98,42	Case /I.H.C /International-Harvester
6225203	83	Citroen /Lada /Peugeot /Talbot	6290605	100	Ebro /Nissan-Motor Iberica /Perkins
6231105	75	Bendix /Compresor /Scania /Westinghouse	6293700	93	Citroen /Fiat /Peugeot
6231304	98,425	Case /I.H.C /International-Harvester	6294901	90	Toyota
			6295903	74	Suzuki
			6301702	94	Ebro /Nissan-Motor Iberica
			6305003	100	Case /I.H.C /International-Harvester

REF. PISTON COMPLETO PISTON ASSEMBLY REF.	CILINDRO CYLINDER Ø mm	MARCA MAKE	REF. PISTON COMPLETO PISTON ASSEMBLY REF.	CILINDRO CYLINDER Ø mm	MARCA MAKE
6305902	86	Renault	6344601	81	Renault /Volvo
6308105	74	Ford	6344704	79	Opel
6309100	87	Mercedes-Benz	6345706	80	Renault
6312600	91,49	Ebro /Fordson /Massey Ferguson /Perkins	6346001	75	Citroen /Peugeot
6312703	91,49	Ebro /Massey Ferguson /Perkins /Volvo	6346200	100	Ebro /Ford /Fordson
6312806	80	Ford	6347202	130	Pegaso
6313005	75	Citroen /Peugeot	6347600	82,5	Ford /Mazda
6313801	110	Fiat	6347703	82,5	Ford
6314206	107,226	Leyland	6348005	86,4	Fiat /Peugeot
6314302	84,442	Austin /Perkins	6348204	97,996	John Deere-Lanz
6315400	80	Citroen /Peugeot	6348403	81,01	Audi /Seat /Volkswagen
6322002	60,325	Bendix /Compresor	6348506	87	Nissan-Motor Iberica
6325605	93	Renault	6348602	79,51	Audi /Seat /Volkswagen
6325701	72	Citroen /Peugeot	6349103	86	Opel
6325900	130	Pegaso	6349206	80,5	Fiat
6327403	76	Lister-Petter	6349302	80	Renault /Volvo
6327705	95	Toyota	6349604	79,51	Audi /Seat /Volkswagen
6327801	86	Lister-Petter	6350002	83	Citroen /Peugeot
6328000	86	Lister-Petter	6350201	77,6	Opel
6330402	70	Daf /Renault /Volvo	6351704	76,51	Audi /Volkswagen /Volvo
6330601	71,5	Renault	6352802	86	Opel
6330800	73	Daf /Renault /Volvo	6352905	86	Citroen /Peugeot
6331205	76	Renault /Volvo	6353001	75	Compresor /Knorr
6331404	76	Renault	6353104	88	Compresor /Knorr
6331603	79	Renault	6353406	86	Lister-Petter
6336400	84,442	Austin /Perkins	6353605	100	Nissan-Motor Iberica
6337704	82,6	Fiat	6353900	86	Citroen /Peugeot
6337903	63,5	Bendix /Compresor /Westinghouse	6354401	93	Fiat
6338301	100	Lister-Petter	6354504	93	Fiat /Iveco /Renault
6338404	96	Ford /Nissan-Motor Iberica	6354600	93	Fiat /Renault
6338500	75	Suzuki	6356000	78	Mazda
6340003	88,9	Case /I.H.C /International-Harvester	6357105	85	Nissan-Motor Iberica
6340202	88	Bedford /Isuzu /Opel	6357201	79	Isuzu /Opel
6340600	65	Fiat /Seat	6357400	90	Compresor /Man /Mercedes-Benz
6341005	74	Ford	6357702	95	Toyota
6341904	83	Citroen /Peugeot	6358203	81,01	Ford /Mercedes-Benz /Seat /Volkswagen
6342103	83	Citroen /Peugeot	6358306	88	Compresor /Knorr
6342206	83	Citroen /Peugeot	6358413	76,51	Audi /Volkswagen /Volvo
6342501	83	Citroen /Peugeot	6360001	75	Suzuki
6343805	76	Isuzu /Opel	6360200	86	Renault
6343901	76	Isuzu /Opel	6360406	91,1	Mitsubishi
6344505	75,8	Renault	6361106	91,1	Mitsubishi
			6361305	94	Daf /Ford /Leyland /Peugeot /Ssangyong

REF. PISTON COMPLETO PISTON ASSEMBLY REF.	CILINDRO CYLINDER Ø mm	MARCA MAKE	REF. PISTON COMPLETO PISTON ASSEMBLY REF.	CILINDRO CYLINDER Ø mm	MARCA MAKE
6362415	79,51	Audi /Seat /Volkswagen	6375703	105	Caterpillar
6362904	102	Deutz /Iveco /K.H.D.	6376506	89	Mercedes-Benz
6363103	80,6	Ford	6376602	92	Citroen /Daf /Fiat /Peugeot
6364400	76	Ford	6376705	94,4	Fiat /Iveco /Renault
6364702	91,1	Mitsubishi	6377103	102,019	Cummins /Daf
6364901	92	Toyota	6377206	102,019	Cummins /Daf
6365203	92	Toyota /Volkswagen	6377302	102,019	Cummins /Daf
6365402	104	Fiat /K.H.D.	6377501	105	Caterpillar
6365601	104	Fiat /K.H.D.	6378002	79	Isuzu /Opel
6366905	90,475	Land Rover	6378400	80	Renault
6367502	102	Deutz /Iveco /K.H.D.	6378514	79,51	Audi /Seat /Volkswagen
6367701	102	Deutz /K.H.D.	6378606	105	Caterpillar
6367900	82,5	Opel	6378702	105	Caterpillar
6368003	82,7	Renault	6379100	114,3	Caterpillar
6368600	96	Nissan-Motor Iberica	6379203	114,3	Caterpillar
6368703	93,67	Ford	6379800	91,49	Perkins
6368806	75,8	Renault	6379903	91,1	Hyundai /Mitsubishi
6369205	82,7	Renault /Volvo	6380205	91,1	Hyundai /Mitsubishi
6369403	79,51	Seat /Skoda /Volkswagen	6380500	81,01	Volkswagen
6369506	118	Pegaso	6380706	81,01	Volkswagen
6369602	79,51	Seat /Skoda /Volkswagen	6380802	114,3	Caterpillar
6369704	79,51	Audi /Ford /Seat /Skoda /Volkswagen	6380905	114,3	Caterpillar
6369801	79,51	Audi /Ford /Seat /Skoda /Volkswagen	6381200	92	Citroen /Peugeot
6369904	86	Ford /Mazda	6381303	86	Renault
6370103	85	Compresor /Wabco	6381406	89	Mercedes-Benz
6371304	90,475	Land Rover	6381605	84	Opel
6371400	77,6	Opel	6381701	84	Opel
6371805	79	Opel	6382003	84	Opel
6372203	77,6	Opel	6382401	84	Opel
6372306	78	Knorr	6382600	80	B M W /Opel
6372402	95	Fiat	6382703	85	Citroen /Fiat/iveco /Peugeot
6372601	80	Bendix /Compresor	6384405	83	Citroen /Fiat /Peugeot
6373102	74	Ford	6385002	81,01	Audi /Volvo
6373205	95,25	Lister-Petter	6385105	81,01	Audi /Volvo
6373905	101,054	Perkins	6385304	82,2	Citroen /Peugeot
6374001	96	Nissan-Motor Iberica	6387706	92	Knorr
6374104	96	Nissan-Motor Iberica	6388900	86	Compresor /Iveco /Knorr
6374406	77	Citroen /Nissan-Motor Iberica /Peugeot	6389106	80	Knorr
6374605	93	Isuzu	6389202	100	Nissan-Motor Iberica
6374701	106,482	John Deere-Lanz	6389305	57,15	Compresor /Westinghouse
6374804	93	Isuzu	6389401	96	Nissan-Motor Iberica
			6389504	76	Renault
			6389600	76	Renault

REF. PISTON COMPLETO PISTON ASSEMBLY REF.	CILINDRO CYLINDER Ø mm	MARCA MAKE	REF. PISTON COMPLETO PISTON ASSEMBLY REF.	CILINDRO CYLINDER Ø mm	MARCA MAKE
6389806	89	Nissan-Motor Iberica /Opel /Renault /Vauxhall			
6391206	74	Suzuki			
6391302	73,7	Citroen /Ford /Peugeot			
6391405	79	Opel			
6391501	79	Opel			
6391700	79,5	Audi /Ford /Seat /Volkswagen			
6391803	79,5	Audi /Ford /Seat /Volkswagen			
6391906	79,5	Audi /Seat /Skoda /Volkswagen			
6392002	79,5	Audi /Seat /Skoda /Volkswagen			
6392105	79,5	Audi /Ford /Seat /Skoda /Volkswagen			
6392201	79,5	Audi /Ford /Seat /Skoda /Volkswagen			
6392304	79	Opel			
6393402	80	Nissan-Motor Iberica /Renault			
6393505	94,4	Fiat			
6393601	94,4	Fiat			
6393704	87	Renault			
6393800	87	Nissan-Motor Iberica /Opel /Renault			
6394205	88	Mercedes-Benz			
6394301	88	Mercedes-Benz			
6394603	88	Mercedes-Benz			
6395001	75	Citroen /Ford /Mazda /Peugeot			
6395804	76	Renault			
6396106	76	Renault			
6396305	89	Nissan			
6419604	98,476	Perkins			
6419906	98,476	Massey Ferguson /Perkins			
6420606	101,982	John Deere-Lanz			
6426206	91,49	Ebro /Fordson /Massey Ferguson /Perkins			
6427002	101,054	Perkins			
6427901	62	Fiat /Seat			
6429905	120,65	Caterpillar			
6430012	130	Barreiros			
6431305	58	Renault			
6438202	100	Diter /M W M /Renault			
6439101	98,476	Massey Ferguson /Perkins			
6443205	95	Diter /M W M /Renault			
6462805	80	Lombardini			
6463100	100	Lombardini			
6480504	101,982	John Deere-Lanz			
6482302	95	Diter /M W M			
6482803	98,476	Perkins			
6484203	107,2	Pegaso			

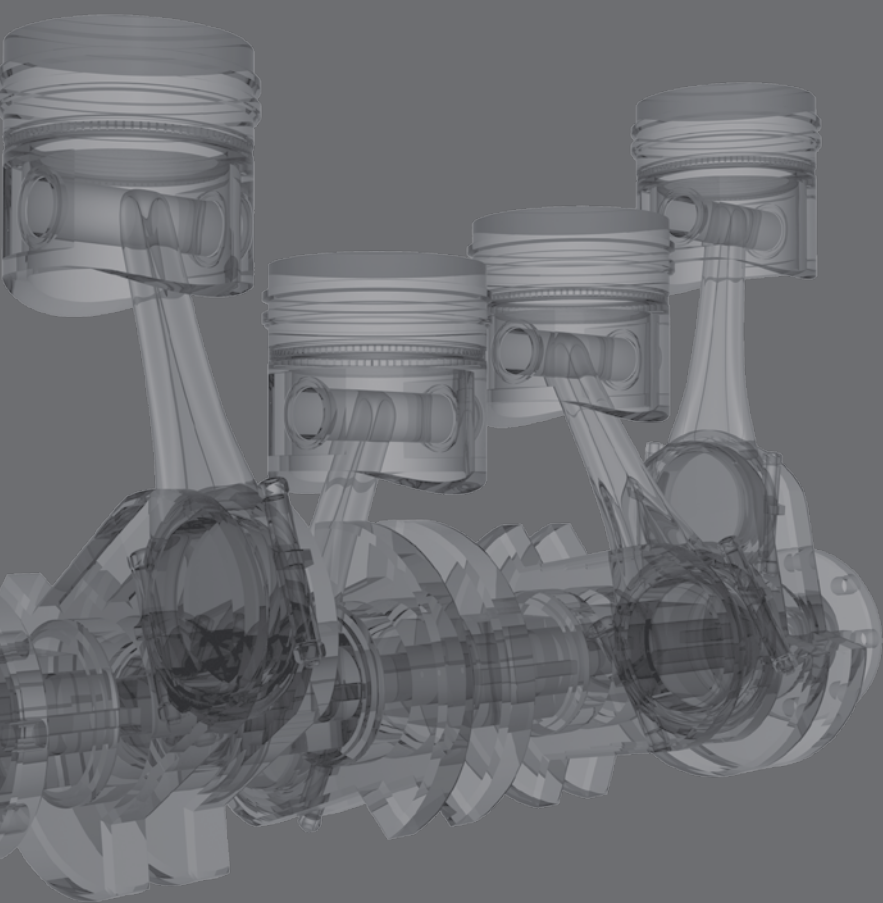
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PISTONES AROS EJES CAMISAS PISTONS RINGS PINS LINERS

**Lista por
referencias de
camisas**

**Liners
reference list**

**Liste pour
references
de chemises**



TARABUSI
GRUPO CIE AUTOMOTIVE

REF. CAMISAS LINER REF.	EQUIPO CILINDRO KIT SET	CILINDRO CYLINDER Ø	MARCA MAKE	REF. CAMISAS LINER REF.	EQUIPO CILINDRO KIT SET	CILINDRO CYLINDER Ø	MARCA MAKE
4001712	5330802	73,000	Daf/Renault/Volvo	4072515	5268605	98,480	Ebro/Massey Ferguson/Perkins
4016810	5254200	97,000	Mercedes-Benz	4072515	5268804	98,476	Perkins
4016810	5264206	97,000	Mercedes-Benz	4072515	5273100	98,476	Perkins
4016810	5264302	97,000	Mercedes-Benz	4072515	5419606	98,476	Perkins
4034715	5013304	100,000	Ebro/Ford/Fordson	4072515	5419901	98,476	Perkins
4053615	5431300	58,000	Renault	4072515	5467501	98,476	Ebro/Perkins
4054514	5157504	91,490	Ebro/Massey Ferguson/Perkins/Volvo	4072515	5468400	98,476	Massey Ferguson/Perkins
4054514	5379802	91,490	Perkins	4072515	5482503	98,476	Perkins
4054514	5428905	91,450	Ebro/Fordson/Massey Ferguson/ Perkins	4076122	5272201	130,000	Pegaso
4057314	5443406	97,996	John Deere-Lanz	4076122	5325902	130,000	Pegaso
4057911	5252601	83,000	Nissan-Motor Ibérica	4076122	5347204	130,000	Pegaso
4058611	5443200	95,000	Diter/M W M/Renault	4076413	5331200	76,000	Renault/Volvo
4060910	5346202	100,000	Fordson	4076413	5331406	76,000	Renault
4060965	5249300	100,000	Fordson	4076914	5331605	79,000	Renault
4062413	5330404	70,000	Daf/Renault/Volvo	4078911	5107104	75,000	Citroen/Peugeot/Renault
4062914	5340005	88,900	International-Harvester	4080112	5176404	75,000	Citroen/Peugeot/Renault/Talbot
4063721	5185703	118,000	Pegaso	4080112	5313000	75,000	Citroen/Peugeot
4063754	5324502	118,000	Pegaso	4080414	5330603	71,500	Renault
4064023	5291300	120,000	Pegaso	4080812	5222604	100,000	Steyr
4064023	5365102	120,000	Pegaso	4081114	5325703	72,000	Citroen/Peugeot
4064023	5365500	120,000	Pegaso	4081416	5305904	86,000	Renault
4064056	5324104	120,000	Pegaso	4081416	5360202	86,000	Renault
4064056	5324200	120,000	Pegaso	4081416	5381305	86,000	Renault
4064056	5324406	120,000	Pegaso	4082315	5114502	98,425	Case/I.H.C./International-Harvester
4064222	5137801	130,000	Pegaso	4082315	5231306	98,425	Case/I.H.C./International-Harvester
4064222	5347506	130,000	Pegaso	4082315	5290003	98,420	Case/I.H.C./International-Harvester
4064410	5457804	88,900	Case/I.H.C./International-Harvester	4082816	5244901	80,000	Peugeot
4066613	5475901	101,982	John Deere-Lanz	4083214	5253301	88,000	Citroen/Peugeot/Renault
4066613	5480602	101,982	John Deere-Lanz	4083310	5296406	106,482	John Deere-Lanz
4067313	5484205	107,200	Pegaso	4083310	5296502	106,482	John Deere-Lanz
4068330	5186101	118,000	Pegaso	4083310	5374703	106,482	John Deere-Lanz
4068352	5324804	118,000	Pegaso	4083811	5305005	100,000	Case/I.H.C./International-Harvester
4068934	5187103	120,000	Pegaso	4083914	5264906	98,425	Case/I.H.C./International-Harvester
4068934	5190603	120,000	Pegaso	4083914	5265002	98,425	Case/I.H.C./International-Harvester
4068934	5195805	120,000	Pegaso	4086213	5341906	83,000	Citroen/Peugeot
4068956	5323205	120,000	Pegaso	4086213	5342105	83,000	Citroen/Peugeot
4068956	5323301	120,000	Pegaso	4086213	5342201	83,000	Citroen/Peugeot
4068956	5323404	120,000	Pegaso	4086213	5342503	83,000	Citroen/Peugeot
4071012	5429900	120,650	Caterpillar	4086213	5350004	83,000	Citroen/Peugeot
4072213	5313803	110,000	Fiat	4086423	5344500	75,800	Renault
4072515	5169500	98,476	Perkins	4086423	5368801	75,800	Renault
4072515	5170200	98,476	Massey Ferguson/Perkins	4086423	5368904	75,800	Renault
4072515	5206305	98,476	Massey Ferguson/Perkins	4086821	5099990	100,000	Deutz/K.H.D.
4072515	5259903	98,476	Perkins	4102711	5348206	97,996	John Deere-Lanz

REF. CAMISAS LINER REF.	EQUIPO CILINDRO KIT SET	CILINDRO CYLINDER Ø	MARCA MAKE	REF. CAMISAS LINER REF.	EQUIPO CILINDRO KIT SET	CILINDRO CYLINDER Ø	MARCA MAKE
4109711	5420601	101,982	John Deere-Lanz	4420312		79,375	Perkins/Seat
4109711	5480506	101,982	John Deere-Lanz	4420511		96,000	Ford/Nissan-Motor Ibérica
4115414	5238203	100,000	Diter/M W M /Renault	4421211		98,476	Perkins
4115414	5438204	100,000	Diter/M W M /Renault	4421314		85,000	Nissan-Motor Ibérica
4115613	5238505	102,000	Diter/M W M	4421325		85,000	Nissan-Motor Ibérica
4118111	5346003	75,000	Citroen/Peugeot	4421616		80,000	Citroen/Peugeot
4118516	5362906	102,000	Deutz/Iveco/K.H.D.	4421712		92,000	Toyota/Volkswagen
4118516	5367504	102,000	Deutz/Iveco/K.H.D.	4421911		96,000	Nissan-Motor Ibérica
4118516	5367703	102,000	Deutz/Iveco/K.H.D.	4421966		96,000	Nissan-Motor Ibérica
4118914	5238284	100,000	Diter/M W M	4422110		95,000	Toyota
4118914	5438285	100,000	Diter/M W M	4422213		79,510	Audi/Seat/Volkswagen
4400115		79,375	Perkins/Seat	4422316		91,100	Mitsubishi
4400233		87,000	Mercedes-Benz/Seat	4422412		104,000	Fiat/K.H.D.
4400281		87,000	Mercedes-Benz	4422515		93,000	Isuzu
4401316		101,054	Massey Ferguson/Perkins	4422611		100,000	Ebro/Nissan-Motor Ibérica/Perkins
4406710		91,490	Perkins	4449012		91,490	Perkins
4407712		74,000	Ford	4449023		91,490	Perkins
4408110		101,054	Massey Ferguson/Perkins	4449060		91,490	Perkins
4408810		98,476	Perkins	4457014		91,490	Perkins
4408865		98,476	Perkins	4457611		90,475	Land Rover
4409013		79,375	Perkins	4466313		62,000	Fiat/Seat
4409064		79,375	Perkins	4468310		98,476	Ebro/Massey Ferguson/Perkins
4410814		90,900	Mercedes-Benz	4473512		90,475	Land Rover
4410862		90,900	Mercedes-Benz	4489015		107,200	Pegaso
4411013		65,000	Fiat/Seat	4514311		97,000	Mercedes-Benz
4411212		107,200	Pegaso	4514322		97,000	Mercedes-Benz
4411315		94,000	Peugeot	4514344		97,000	Mercedes-Benz
4411912		93,670	Ford	4514355		97,000	Mercedes-Benz
4412310		94,000	Ebro/Nissan-Motor Ibérica	4701314		90,475	Land Rover
4412516		100,000	Ebro/Nissan-Motor Ibérica/ Perkins	4701410		91,490	Ebro/Fordson/Massey Ferguson/ Perkins/Renault/Volvo
4414410		101,054	Perkins	4702515		98,476	Perkins
4414620		94,000	Citroen/Daf/Ford/Leyland/ Peugeot/Talbot	4702714		98,476	Perkins
4415810		93,000	Fiat/Iveco/Renault/Seat	4702810		79,375	Perkins
4415913		93,000	Fiat/Iveco	4702913		91,490	Perkins
4417711		95,000	Toyota	4703716		91,490	Perkins
4418013		76,510	Audi/Volkswagen/Volvo	4703812		79,375	Perkins
4418713		82,600	Fiat	4703915		107,200	Pegaso
4419310		87,000	Mercedes-Benz	4704512		101,054	Perkins
4419413		90,000	Toyota	4704615		90,475	Land Rover
4419516		83,000	Citroen/Lada/Peugeot/ Talbot	4704711		90,900	Mercedes-Benz
4419612		83,000	Citroen /Peugeot	4704814		94,000	Nissan-Motor Ibérica
4419811		78,000	Renault/Volvo	4704910		93,000	Fiat/Peugeot
4420216		93,000	Citroen/Fiat/Peugeot				

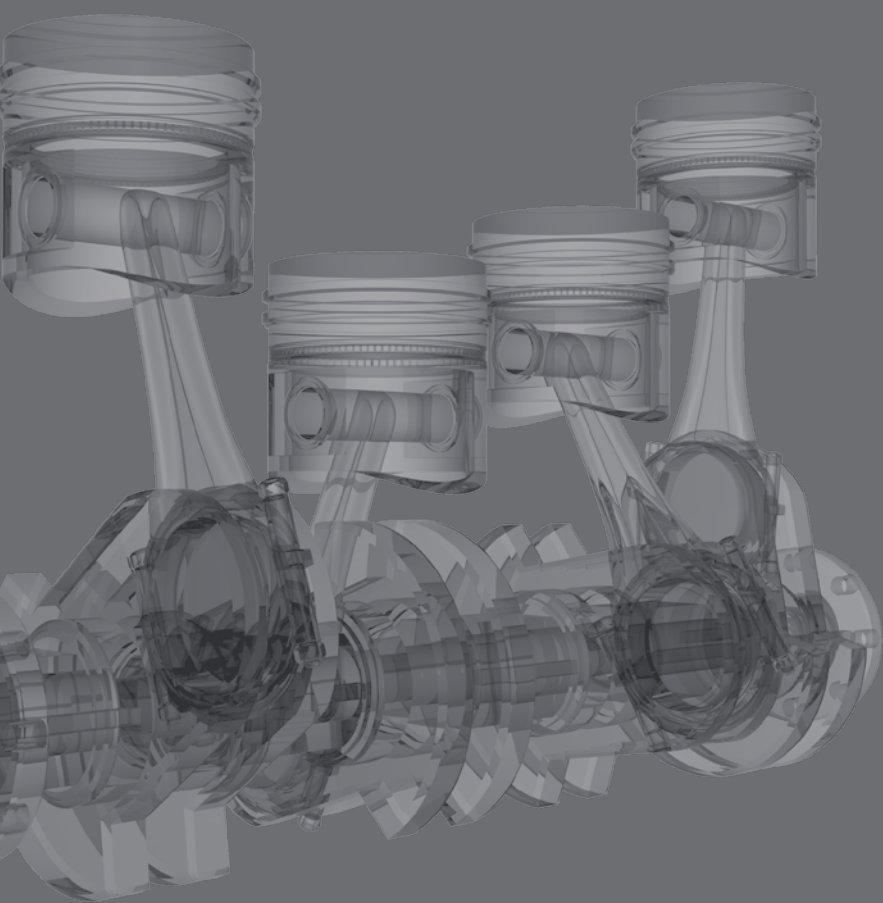
CATÁLOGO 2011 CATALOGUE

PISTONES AROS EJES CAMISAS PISTONS RINGS PINS LINERS

**Lista por
referencias
de equipo de
cilindros**

**Kit set
reference list**

**Liste pour
references
d'ensembles**



TARABUSI
GRUPO CIE AUTOMOTIVE

REF. EQUIPO COMPLETO KIT SET REF	CILINDRO CYLINDER Ø mm	MARCA MAKE	REF. EQUIPO COMPLETO KIT SET REF	CILINDRO CYLINDER Ø mm	MARCA MAKE
5013304	100,000	Ebro/Ford/Fordson	5313803	110,000	Fiat
5049100	107,210	Pegaso	5323205	120,000	Pegaso
5099990	100,000	Deutz/K.H.D.	5323301	120,000	Pegaso
5107104	75,000	Citroen/Peugeot/Renault	5323404	120,000	Pegaso
5114502	98,425	Case/I.H.C./International-Harvester	5324104	120,000	Pegaso
5137801	130,000	Pegaso	5324200	120,000	Pegaso
5157504	91,490	Ebro/Massey Ferguson/Perkins/ Volvo	5324406	120,000	Pegaso
5169500	98,476	Perkins	5324502	118,000	Pegaso
5170200	98,476	Massey Ferguson/Perkins	5324804	118,000	Pegaso
5176404	75,000	Citroen/Peugeot/Renault/Talbot	5325703	72,000	Citroen/Peugeot
5185703	118,000	Pegaso	5325902	130,000	Pegaso
5186101	118,000	Pegaso	5330404	70,000	Daf/Renault/Volvo
5187103	120,000	Pegaso	5330603	71,500	Renault
5190603	120,000	Pegaso	5330802	73,000	Daf/Renault/Volvo
5195805	120,000	Pegaso	5331200	76,000	Renault/Volvo
5206305	98,476	Massey Ferguson/Perkins	5331406	76,000	Renault
5222604	100,000	Steyr	5331605	79,000	Renault
5231306	98,425	Case/I.H.C./International-Harvester	5340005	88,900	International-Harvester
5238203	100,000	Diter/M W M /Renault	5341906	83,000	Citroen/Peugeot
5238284	100,000	Diter/M W M	5342105	83,000	Citroen/Peugeot
5238505	102,000	Diter/M W M	5342201	83,000	Citroen/Peugeot
5244901	80,000	Peugeot	5342503	83,000	Citroen/Peugeot
5249300	100,000	Fordson	5344500	75,800	Renault
5252601	83,000	Nissan-Motor Ibérica	5346003	75,000	Citroen/Peugeot
5253301	88,000	Citroen/Peugeot/Renault	5346202	100,000	Fordson
5254200	97,000	Mercedes-Benz	5347204	130,000	Pegaso
5259903	98,476	Perkins	5347506	130,000	Pegaso
5264206	97,000	Mercedes-Benz	5348206	97,996	John Deere-Lanz
5264302	97,000	Mercedes-Benz	5350004	83,000	Citroen/Peugeot
5264906	98,425	Case/I.H.C./International-Harvester	5360202	86,000	Renault
5265002	98,425	Case/I.H.C./International-Harvester	5362906	102,000	Deutz/Iveco/K.H.D.
5268605	98,480	Ebro/Massey Ferguson/Perkins	5365102	120,000	Pegaso
5268804	98,476	Perkins	5365500	120,000	Pegaso
5272201	130,000	Pegaso	5367504	102,000	Deutz/Iveco/K.H.D.
5273100	98,476	Perkins	5367703	102,000	Deutz/K.H.D.
5290003	98,420	Case/I.H.C./International-Harvester	5368801	75,800	Renault
5291300	120,000	Pegaso	5374703	106,482	John Deere-Lanz
5296406	106,482	John Deere-Lanz	5379802	91,490	Perkins
5296502	106,482	John Deere-Lanz	5381305	86,000	Renault
5305005	100,000	Case/I.H.C./International-Harvester	5419606	98,476	Perkins
5305904	86,000	Renault	5419901	98,476	Perkins
5313000	75,000	Citroen/Peugeot	5420601	101,982	John Deere-Lanz

REF. EQUIPO COMPLETO KIT SET REF	CILINDRO CYLINDER Ø mm	MARCA MAKE	REF. EQUIPO COMPLETO KIT SET REF	CILINDRO CYLINDER Ø mm	MARCA MAKE
5428905	91,450	Ebro/Fordson/Massey Ferguson/ Perkins			
5429900	120,650	Caterpillar			
5431300	58,000	Renault			
5438204	100,000	Diter/M W M/Renault			
5438285	100,000	Diter/M W M			
5443200	95,000	Diter/M W M/Renault			
5443406	97,996	John Deere-Lanz			
5457804	88,900	Case/I.H.C./International- Harvester			
5467501	98,476	Ebro/Perkins			
5468400	98,476	Massey Ferguson/Perkins			
5475901	101,982	John Deere-Lanz			
5480506	101,982	John Deere-Lanz			
5480602	101,982	John Deere-Lanz			
5482503	98,476	Perkins			
5484205	107,200	Pegaso			

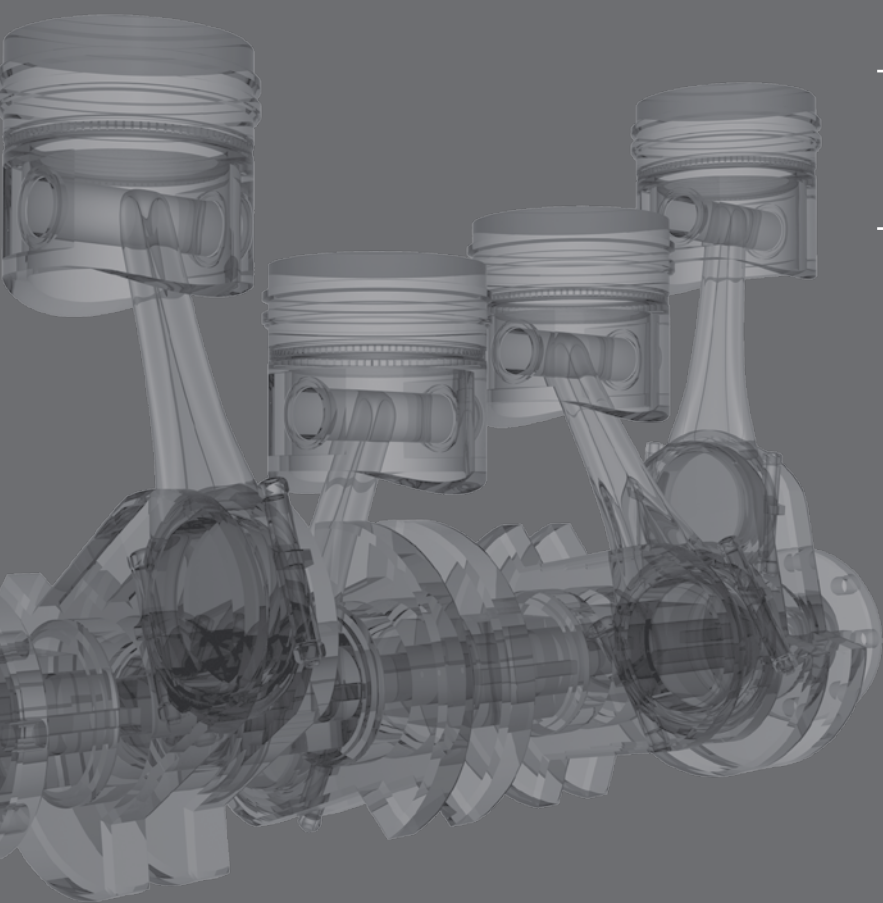
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PISTONES AROS EJES CAMISAS PISTONS RINGS PINS LINERS

**Lista por
referencias de juego
de segmentos**

**List of references
for ring sets**

**Liste de references
pour jeux de
segments**



TARABUSI

GRUPO CIE AUTOMOTIVE

REF. JUEGO AROS RING SET REF	CILINDRO CYLINDER Ø mm	MARCA MAKE	REF. JUEGO AROS RING SET REF	CILINDRO CYLINDER Ø mm	MARCA MAKE
7026504	91,49	Ebro /Fordson /Massey Ferguson /Perkins	7244904	80	Peugeot
7049000	107,21	Pegaso	7248706	79,375	Perkins /Seat
7049803	76,2	Ebro /Massey Ferguson /Perkins	7252302	78	Renault /Volvo
7056803	93	Fiat /Iveco /Renault /Seat	7252604	83	Nissan-Motor Iberica
7060605	79,375	Perkins	7253304	88	Citroen /Peugeot /Renault
7061003	90	Ford /Opel /Peugeot /Volvo	7254203	97	Mercedes-Benz
7061106	94	Citroen /Daf /Ford /Peugeot /Talbot	7259906	98,476	Perkins
7061600	98,48	Ebro /Massey Ferguson /Perkins	7264202	97	Mercedes-Benz
7099901	100	Deutz /K.H.D.	7264806	85	Lombardini
7102104	102	Lombardini	7265005	98,425	Case /I.H.C /International-Harvester
7107100	75	Citroen /Peugeot /Renault /Talbot	7267304	90	Compresor /Man /Mercedes-Benz /Westinghouse
7114505	98,425	Case /I.H.C /International-Harvester	7267400	81	Renault /Volvo
7137804	130	Pegaso	7272204	130	Pegaso
7141201	100	Campeon	7273302	93,67	Ford
7150006	90,475	Land Rover	7276603	74	Suzuki
7159003	98,476	Ebro /Massey Ferguson /Perkins	7278003	86	Lombardini
7161206	90,475	Land Rover	7279403	75	Compresor /Westinghouse
7168906	87	Mercedes-Benz /Seat	7289004	90,475	Land Rover
7169606	98,476	Massey Ferguson /Perkins	7290603	100	Ebro /Nissan-Motor Iberica /Perkins
7171706	120	Pegaso	7293705	93	Citroen /Fiat /Peugeot
7183304	90,475	Land Rover	7294906	90	Toyota
7195705	120	Pegaso	7296800	94	Ebro /Nissan-Motor Iberica
7197304	90,9	Mercedes-Benz	7298406	75,8	Renault
7214303	85	Diter /M W M	7305001	100	Case /I.H.C /International-Harvester
7217302	95	Lombardini	7305900	86	Renault
7217604	100	Lombardini	7308103	74	Ford
7221200	94	Daf /Ford /Leyland /Peugeot /Ssangyong /Talbot	7309002	87	Mercedes-Benz
7222003	90	Compresor /Pegaso	7309105	87	Mercedes-Benz
7222600	100	Steyr	7312605	91,49	Ebro /Fordson /Massey Ferguson /Perkins /Volvo
7223005	80	Ford	7313806	110	Fiat
7223602	106,482	John Deere-Lanz	7314204	107,226	Leyland
7223705	106,482	John Deere-Lanz	7314300	84,442	Austin /Perkins
7225201	83	Citroen /Lada /Opel /Peugeot /Talbot	7314705	100	Lister-Petter
7228900	80	Ford	7315000	86	Lister-Petter
7238302	102	Diter /M W M	7315206	76	Lister-Petter
7238604	90,475	Land Rover	7315405	80	Citroen /Peugeot
7239201	85	Nissan-Motor Iberica	7317004	63,5	Bendix /Compresor
7239304	94	Nissan-Motor Iberica	7322000	60,325	Bendix /Compresor
7239400	94	Nissan-Motor Iberica	7323503	75	Citroen /Peugeot
7240100	65,5	Bedford /Opel /Suzuki	7325500	93	Fiat /Renault
7244506	80	Citroen /Ford /Opel /Peugeot	7325706	72	Citroen /Peugeot
			7326502	82,6	Fiat

REF. JUEGO AROS RING SET REF	CILINDRO CYLINDER Ø mm	MARCA MAKE	REF. JUEGO AROS RING SET REF	CILINDRO CYLINDER Ø mm	MARCA MAKE
7327703	95	Toyota	7354406	93	Fiat /Iveco /Renault
7330400	70	Daf /Renault /Volvo	7356005	78	Mazda
7330606	71,5	Renault	7356506	86	Compresor /Iveco /Knorr
7330805	73	Daf /Renault /Volvo	7357206	79	Isuzu /Opel
7331203	76	Renault /Volvo	7357604	92	Knorr
7331601	79	Renault	7357700	95	Toyota
7331704	96	Ford /Nissan-Motor Iberica	7358901	96	Nissan-Motor Iberica
7337901	63,5	Bendix /Compresor /Westinghouse	7360102	81,01	Audi /Seat /Volkswagen
7338505	75	Suzuki	7360205	86	Renault
7339802	65	Fiat /Seat	7360404	91,1	Hyundai /Mitsubishi
7340001	88,9	Case /I.H.C /International-Harvester	7362902	102	Deutz /Iveco /K.H.D.
7340200	88	Bedford /Isuzu /Opel	7363101	80,6	Ford
7341106	74	Ford	7364405	76	Ford
7341902	83	Citroen /Peugeot	7364906	92	Toyota /Volkswagen
7342204	83	Citroen /Peugeot	7365400	104	Fiat /K.H.D.
7343604	87	Nissan-Motor Iberica	7365606	104	Fiat /K.H.D.
7343700	75	Bendix /Compresor /Scania /Westinghouse	7365702	101,054	Massey Ferguson /Perkins
7343803	76	Isuzu /Opel	7366903	90,475	Land Rover
7344702	79	Opel	7367500	102	Deutz /Iveco /K.H.D.
7345306	88	Compresor /Knorr	7367706	102	Deutz /K.H.D.
7345505	75	Compresor /Knorr	7368001	82,7	Renault /Volvo
7345704	80	Renault	7368701	93,67	Ford
7346006	75	Citroen /Peugeot	7369401	79,51	Audi /Ford /Seat /Skoda /Volkswagen
7346205	100	Ebro /Ford /Fordson	7369504	118	Pegaso
7347200	130	Pegaso	7369902	86	Ford /Mazda
7347605	82,5	Ford /Mazda	7370101	85	Compresor /Wabco
7347701	82,5	Ford	7371302	90,475	Land Rover
7347900	82,5	Opel	7372304	78	Knorr
7348003	86,4	Fiat /Peugeot	7372400	95	Fiat
7348202	97,996	John Deere-Lanz	7372606	80	Bendix /Compresor
7348401	81,01	Audi /Ford /Mercedes-Benz /Seat /Volkswagen	7373203	95,25	Lister-Petter
7348600	79,51	Audi /Seat /Volkswagen	7373601	92	K.H.D.
7349101	86	Opel	7373704	95	K.H.D.
7349204	80,5	Fiat	7373903	101,054	Perkins
7349300	80	Renault /Volvo	7374006	96	Nissan-Motor Iberica
7349506	83	Citroen /Fiat /Peugeot	7374301	80	K.H.D.
7349602	79,51	Audi /Seat /Volkswagen	7374404	77	Citroen /Nissan-Motor Iberica /Peugeot
7350000	83	Citroen /Peugeot	7374603	93	Isuzu
7350206	77,6	Opel	7374802	93	Isuzu
7351702	76,51	Audi /Volkswagen /Volvo	7376504	89	Mercedes-Benz
7353603	100	Nissan-Motor Iberica	7376600	92	Citroen /Daf /Fiat /Peugeot
7353905	86	Citroen /Peugeot	7376703	94,4	Fiat /Iveco /Renault
			7377101	102,019	Cummins /Daf

REF. JUEGO AROS RING SET REF	CILINDRO CYLINDER Ø mm	MARCA MAKE	REF. JUEGO AROS RING SET REF	CILINDRO CYLINDER Ø mm	MARCA MAKE
7377204	102,019	Cummins /Daf	7430006	130	Barreiros
7378405	80	Renault	7431001	66,675	Bendix /Compresor
7378604	105	Caterpillar	7431303	58	Renault
7379805	91,49	Perkins	7438200	100	Diter /M W M /Renault
7380704	81,01	Audi /Volkswagen /Volvo	7443203	95	Diter /M W M /Renault
7381205	92	Citroen /Peugeot	7463105	100	Lombardini
7381301	86	Renault	7483906	107,2	Pegaso
7381404	89	Mercedes-Benz			
7381603	84	Opel			
7381706	84	Opel			
7382605	80	B M W /Opel			
7382701	85	Citroen /Fiat/iveco /Peugeot			
7383106	74	Suzuki			
7384403	83	Citroen /Fiat /Peugeot			
7385302	82,2	Citroen /Peugeot			
7386304	80	Nissan-Motor Iberica /Renault			
7389104	80	Knorr			
7389303	57,15	Compresor /Westinghouse			
7389502	76	Renault			
7389804	89	Nissan-Motor Iberica /Opel /Renault /Vauxhall			
7390106	94,4	Fiat /Fiat/iveco			
7390401	69	Renault			
7390504	85	Peugeot			
7391300	73,7	Citroen /Ford /Peugeot			
7391403	79	Opel			
7391705	79,5	Audi /Ford /Seat /Skoda /Volkswagen			
7392906	100	Man /Mercedes-Benz			
7393002	100	R.V.I.			
7393105	100	Man /Mercedes-Benz			
7393503	94,4	Fiat			
7393702	87	Nissan-Motor Iberica /Opel /Renault			
7394203	88	Mercedes-Benz			
7394402	78,5	Peugeot			
7395006	75	Citroen /Ford /Mazda /Peugeot			
7396303	89	Nissan			
7412705	80	Lombardini			
7419602	98,476	Massey Ferguson /Perkins			
7420604	101,982	John Deere-Lanz			
7426204	91,49	Ebro /Fordson /Massey Ferguson /Perkins /Volvo			
7427000	101,054	Perkins			
7427906	62	Fiat /Seat			
7429903	120,65	Caterpillar			



CIE Automotive



TARABUSI

GRUPO CIE AUTOMOTIVE

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ISO/TS 16949
BUREAU VERITAS
Certification



ISO 9001
ISO 14001
OHSAS 18001
BUREAU VERITAS
Certification



Notas