

WIDIN

**CUTTER SERIES**  
커터시리즈





# History

- 1988. 07 회사설립(주식회사 하나정공)
- 1999. 07 무역업 등록
- 2001. 04 상호변경 (주)하나정공 → (주)하나툴스
- 07 ISO 9001 인증 획득
- 2002. 03 (주)하나툴스 부설연구소 설립인가(과기부)
- 05 실용신안 등록(제0277126호)
- 2003. 06 수출유망중소기업 지정(경남 중소기업 수출지원 센터)
- 2004. 05 실용신안 등록(제0350651)
- 11 제34회 정밀기술진흥대회 동상 수상
- 11 대표이사 산업자원부장관 표창
- 2005. 02 상해사무소 개설(중국상하이)
- 04 벤처기업 선정(중소기업청)
- 05 수출전환대상업체 지정(제2005-16호)
- 07 경남중소기업대상 특별상 수상
- 07 수출유망 중소기업 지정(제2005-28호)
- 10 부품소재전문기업(산업자원부)
- 11 기술혁신형중소기업(INNO-BIZ) 확인(중소기업청)
- 2006. 09 창원시 최고경영인상 수상(창원시)
- 11 품질경쟁력 우수기업 선정
- 11 수출 100만불 탑 수상
- 2007. 02 부등분할 엔드밀 특허 획득
- 05 대통령 표창 수상
- 07 상호변경 (주)하나툴스 → (주)위딘
- 2008. 07 창립 20주년 기념 및 회사 이전 준공
- 11 수출 300만불 탑 수상
- 2010. 05 2010 글로벌스탠더드 경영대상 수상(한국능률협회)
- 2011. 11 수출 500만불 탑 수상
- 2012. 01 글로벌 강소 기업 선정
- 06 본사 확장 이전
- 2015. 06 대표이사 국무총리상 수상



# Making customer's dreams a reality- The best mechanical solution

---

(주)위딘은 1988년 7월 창업 이래 국내 초경 절삭 공구시장의 질적 향상을 위해 꾸준히 노력해 오고 있습니다.

이와 같은 노력에 힘입어 국내 ENDMILLS, DRILLS, REAMERS, TAPS 뿐만아니라 SPECIAL TOOLS은 반도체 부품, 자동차 부품, 금형 및 공작기계 부품 등과 같은 국내 산업 전반에 많은 기여를 하고 있습니다.

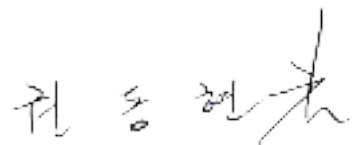
인화단결, 창의정신, 주인의식이라는 사훈아래 모든 임직원이 하나로 뜻을 모아 (주)위딘의 발전을 위해 땀을 흘리고, 생산되어지는 제품에 자부심을 가짐으로써 품질의 향상과 불량률 0%를 만들어 나가고 있음은 물론, 끊임없는 품질개선, 생산성 극대화, 기업의 세계화라는 경영방침아래 (주)위딘을 더욱 발전시키기 위해 최선의 노력을 아끼지 않고 있습니다.

아울러 (주)위딘 부설 연구소에서는 품질개선을 위한 끊임없는 연구를 하고 있으며, 그 결과들은 속속 품질의 향상과 신제품 개발로 나타나고 있습니다.

또한, 세계적 박람회인 EMO, JIMTOF, IMTS, SIMTOS 등의 참여 뿐만 아니라 지속적인 해외시장 개척활동으로 품질향상과 회사의 이미지 제고는 물론, 세계를 무대로 국경없는 글로벌 경영을 실현하고 있습니다.

철저한 품질관리와 정확한 납기준수는 물론 고객과 이익을 함께 나누는 자세로 업무에 임할 것을 다짐하고 당사의 축적된 경험과 노하우가 귀사의 생산성 향상과 원가절감에 기여할 수 있도록 최선을 다하겠습니다. 고객 여러분의 꾸준한 관심과 성원에 감사드리며, 끊임없는 노력과 열정으로 임할 것을 약속드립니다.

2016년 1월  
(주)위딘 대표이사 권 동 현



# CONTENTS

**ENCC**  
12P



**ENCC**  
13P



**ENCC**  
14P



**AHU**  
15P



**RMCC**  
16P



**RMCC**  
17P



**RDT**  
18P



**ASMC**  
18P



**MPMC**  
18P



**RSCC**  
20P



**SSCC**  
20P



**SSC**  
21P



**BMCC**  
22P



**BMCC-MD**  
23P



**BPUX**  
23P



**BPUX**  
24P



**WRMC-T**  
24P



**WRMC-T**  
24P



**TRMC**  
25P



**TRMS**  
25P



**TRMC**  
26P



**TRMS**  
26P



**BWSF**  
27P



**BWSC**  
27P



**SRM**  
28P



**BHSF**  
28P



**GBEC**  
29P



**HESC**  
30P



**HMCC-BT**  
31P



**HNCC**  
31P



**HMCC-MD**  
32P



**FPCC**  
32P



**SMCC**  
33P



**SECC**  
33P



**BFCC**  
34P



**C-BFCC**  
34P





# CONTENTS

**ABPF**  
35P



**C-ABPF**  
35P



**SRFH**  
36P



**C-SRFH**  
36P



**C-RMMC**  
37P



**AJUL**  
38P



**AJSL**  
38P



**AQXC**  
39P



**AQXC**  
40P



**TEBL**  
40P



**SECL**  
41P



**AHJL**  
41P



**ASRL**  
42P



**ASRL-Pico**  
43P



**ASRL-Pico**  
43P



**BSR**  
44P



**BSR**  
44P



**AJXC**  
45P



**SKSC**  
46P



**IHCC**  
47P



**M-ABPF**  
48P



**M-SRFH**  
48P



**M-BFCC**  
48P



**M-SRM**  
49P



**M-BHSF**  
49P



**M-GBEC**  
49P



**M-AJXC**  
50P



**M-SKSC**  
50P



**M-ASRL**  
51P



**M-ASRL-Pico**  
51P



**M-RMCC**  
52P



**M-AQXC**  
53P



**M-SECL**  
53P



**CHCL**  
54P



**CSCC**  
54P



**SD 블레이드 / SD Blade**  
55P



# CONTENTS

**CTHT**  
55P



**정삭 볼 insert**  
/ Finishing Ball Insert(ZPSW)  
56P



**정삭 볼 insert**  
/ Finishing Ball Insert(SP3204)  
56P



**피니싱 코너 래디우스 insert**  
/ Finishing Coner Radius Insert(ZPSR)  
57P



**라운드 insert** / Round Insert(RDMW)  
58P



**볼 insert** / Ball Insert(LBH)  
58P



**코너 래디우스 insert**  
/ Coner Radius LRH Insert(LRH)  
59P



**볼 컷타** / Ball Cutter(RBMX50M)  
60P



**헬리칼 컷타 insert**  
/ Helical Cutter Insert(SPMT)  
60P



**헬리칼 컷타 insert**  
/ Helical Cutter Insert(ZPMT)  
60P



**정삭 밀 insert**  
/ Finishing Mill Insert(WDMW)  
61P



**정삭 밀 insert**  
/ Finishing Mill Insert(EOMT)  
61P



**인덱서블 밀링 insert**  
/ Indexable Milling Insert(EDNW)  
62P



**인덱서블 밀링 insert**  
/ Indexable Milling Insert(EDNW)  
62P



**인덱서블 밀링 insert**  
/ Indexable Milling Insert(JOMW)  
62P

**인덱서블 insert**  
/ Indexable Insert(ZPET)  
63P



**인덱서블 밀링 insert**  
/ Indexable Milling Insert(JDMT)  
63P



**APKT17(멀티, 강, 써스용) insert**  
/ APKT17(MT, EM, SU) Insert  
64P





APKT17(알루미늄용)인서트  
/ APKT17(AL)Insert  
64P



APKT09(멀티, 써스용)인서트  
/ APKT09(MT, SU)Insert  
65P



APKT09(강용)인서트  
/ APKT09(EM)Insert  
65P



APKT09(알루미늄용)인서트  
/ APKT09(AL)Insert  
65P



챔퍼링 밀 인서트  
/ Chamfering Mill Insert  
66P



라운드 인서트  
/ Rounding Insert  
66P



정삭 밀 인서트  
/ Finishing Mill Insert(QOMT)  
66P



CBN 인서트 / CBN Insert  
67P



라운드 밀 인서트 / Round Mill Insert  
67P



페이스카터 -75° / Face Cutter -75°  
68P



페이스카터 -90° / Face Cutter -90°  
69P



중절삭용 카터  
/ Medium Cutting Cutter  
69P



IMCC  
70P



CMCC  
70P



사이드 밀링 카터 / Side Milling Cutter  
71P



써클라 페이스 카터  
/ Circular Face Cutter  
71P



키-홈 전용 카터  
/ Key-Home Cutter  
72P



키-홈 전용 카터, 윤곽카터  
/ Key-Home Cutter  
72P



# CONTENTS

코너 R가공 홀더  
/ Coner R Holder  
72P



릴리프-컷타 / Relief-Cutter  
73P



U-홈컷타 / U-Home Cutter  
73P



포스트 유 드릴 / Post U-Drill  
74P



T- 컷타 / T-Cutter  
74P



볼 게이지 / Ball Gauge  
75P



외아면 셋팅바 / Setting Bar  
75P



중삭컷타 아바/SSCC컷타 아바  
/ Medium Cutter Arbor, SSCC Cutter Arbor  
76P



중삭보링컷타 / Boring Cutter  
76P



레이디알 태핑척  
/ Radial Tapping Chuck  
77P



카운터보어 / Counter Bore  
78P



헬릭스 리머 / Helix Reamer  
78P



FPCC-ST 아바 / FPCC-ST Arbor  
79P



연결아바 / Extention Arbor  
79P



픽기 컷타 / Slotting Cutter  
80P



픽기 컷타 / Slotting Cutter  
80P



M.S 컷타 / M.S Cutter  
81P



M.S 컷타 부품 / M.S Cutter Part  
81P



**M.S** 컷타 사용 인서트  
/ M.S Cutter Insert  
81P



**BT50-WMA**  
82P



**FPM**  
83P



**FMC**  
84P



**열박음 척 / Shrink Fit Chuck**  
87P



**열박음 척 / Shrink Fit Chuck**  
87P



**셋팅블럭 / Setting Block**  
88P

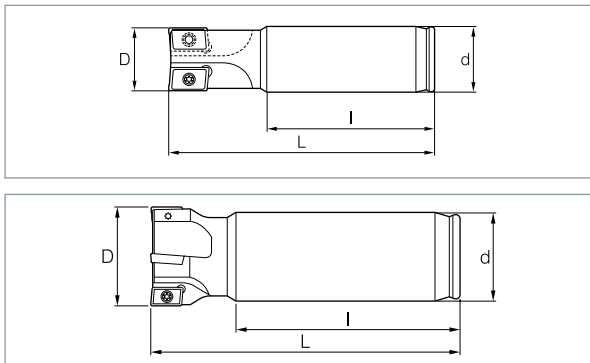


**셋팅블럭 / Setting Block**  
89P



# EndMill Cutter

## ENCC



### - WELDON SHANK TYPE

INSERT TYPE → [WIDIN, TAEGU-TEC](#)

| Part No.     | 치수(Dimensions)mm |    |     |     |  |  |  |  |      |                   |      |      |                   |      |
|--------------|------------------|----|-----|-----|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|-------------------|------|------|-------------------|------|
|              | D                | d  | L   | l   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |                   |      |      |                   |      |
| ENCC-1609180 | 16               | 16 | 180 | 145 | 2                                                                                 | 09T3                                                                               | ST2553-55<br>M2,5                                                                   | TX-8                                                                                |      |                   |      |      |                   |      |
| ENCC-1709180 | 17               |    | 180 | 155 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |                   |      |      |                   |      |
| ENCC-2009200 | 20               | 20 | 200 | 160 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |                   |      |      |                   |      |
| ENCC-2109150 | 21               |    | 150 | 120 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |                   |      |      |                   |      |
| ENCC-2109200 | 21               | 25 | 200 | 170 | 3                                                                                 |                                                                                    |                                                                                     |                                                                                     | 09T3 | ST2553-55<br>M2,5 | TX-8 |      |                   |      |
| ENCC-2509200 | 25               |    | 200 | 160 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |                   |      |      |                   |      |
| ENCC-2609150 | 26               |    | 150 | 120 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |                   |      |      |                   |      |
| ENCC-2609200 | 26               |    | 200 | 170 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |                   |      |      |                   |      |
| ENCC-3209200 | 32               | 32 | 200 | 150 | 4                                                                                 |                                                                                    |                                                                                     |                                                                                     |      |                   |      | 09T3 | ST2553-55<br>M2,5 | TX-8 |
| ENCC-3309150 | 33               |    | 150 | 110 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |                   |      |      |                   |      |
| ENCC-3309200 | 33               |    | 200 | 160 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |                   |      |      |                   |      |
| ENCC-3309250 | 33               |    | 250 | 210 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |                   |      |      |                   |      |

### - WELDON SHANK TYPE

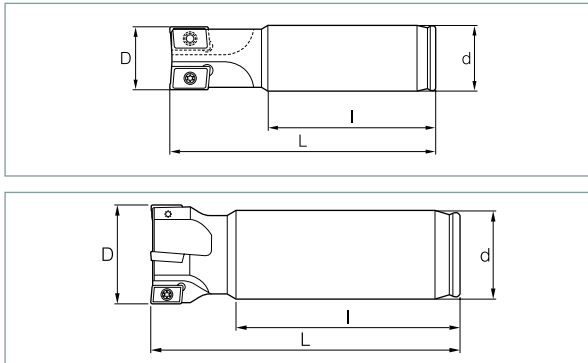
INSERT TYPE → [WALTER](#)

| Part No.      | 치수(Dimensions)mm |    |     |     |   |          |                   |       |
|---------------|------------------|----|-----|-----|---|----------|-------------------|-------|
|               | D                | d  | L   | l   |   |          |                   |       |
| ENCC-2515150  | 25               | 25 | 150 | 110 | 2 | AP..15T3 | ST3509-55<br>M3.5 | TX-15 |
| ENCC-2515200  | 25               | 25 | 200 | 160 | 2 |          |                   |       |
| ENCC-2615200  | 26               | 25 | 200 | 160 | 2 |          |                   |       |
| ENCC-3215150  | 32               | 32 | 150 | 110 | 2 |          |                   |       |
| ENCC-3215200  | 32               | 32 | 200 | 160 | 2 |          |                   |       |
| ENCC-3215250  | 32               | 32 | 250 | 210 | 2 |          |                   |       |
| ENCC-3215300  | 32               | 32 | 300 | 260 | 2 |          |                   |       |
| ENCC-3315200  | 33               | 32 | 200 | 160 | 2 |          |                   |       |
| ENCC-4015150  | 40               | 32 | 150 | 110 | 3 |          |                   |       |
| ENCC-4015200  | 40               | 32 | 200 | 100 | 3 |          |                   |       |
| ENCC-4015250  | 40               | 32 | 250 | 210 | 3 |          |                   |       |
| ENCC-4015300  | 40               | 32 | 300 | 200 | 3 |          |                   |       |
| ENCC-5015150  | 50               | 32 | 150 | 70  | 4 |          |                   |       |
| ENCC-5015200  | 50               | 32 | 200 | 150 | 4 |          |                   |       |
| ENCC-5015250  | 50               | 32 | 250 | 250 | 4 |          |                   |       |
| ENCC-5015300  | 50               | 32 | 300 | 300 | 4 |          |                   |       |
| ENCC-5015150L | 50               | 42 | 150 | 100 | 4 |          |                   |       |
| ENCC-5015200L | 50               | 42 | 200 | 150 | 4 |          |                   |       |
| ENCC-5015250L | 50               | 42 | 250 | 200 | 4 |          |                   |       |
| ENCC-5015300L | 50               | 42 | 300 | 250 | 4 |          |                   |       |



# EndMill Cutter

## ENCC



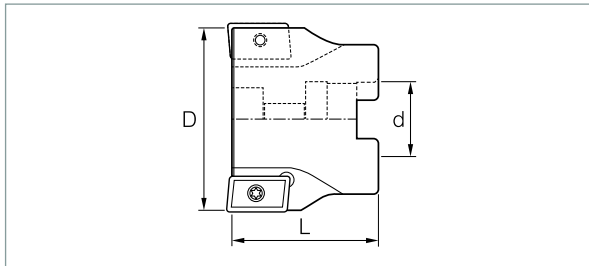
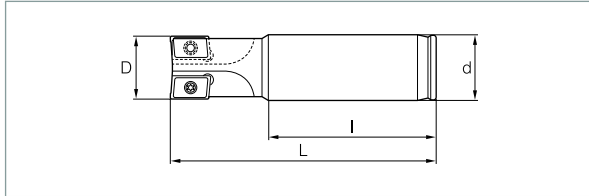
### - WELDON SHANK TYPE

INSERT TYPE → **DURACAB, SECO, KORLOY, WIDIN**

| Part No.      | 치수(Dimensions)mm |    |     |     |  |  |  |  |  |  |  |
|---------------|------------------|----|-----|-----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|--|
|               | D                | d  | L   | l   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-2516150  | 25               | 25 | 150 | 110 | 2                                                                                 | AP..1604                                                                            | ST4084-60<br>M4                                                                     | TX-15                                                                               |  |  |  |
| ENCC-2516200  | 25               | 25 | 200 | 160 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-2516250  | 25               | 25 | 250 | 210 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-2616150  | 26               | 25 | 150 | 110 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-2616200  | 26               | 25 | 200 | 160 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-3216150  | 32               | 32 | 150 | 110 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-3216200  | 32               | 32 | 200 | 160 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-3216250  | 32               | 32 | 250 | 210 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-3216300  | 32               | 32 | 300 | 260 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-3316150  | 33               | 32 | 150 | 110 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-3316200  | 33               | 32 | 200 | 160 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-3316250  | 33               | 32 | 150 | 210 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-4016150  | 40               | 32 | 150 | 110 | 3                                                                                 |                                                                                     | ST4101-60W<br>M4                                                                    |                                                                                     |  |  |  |
| ENCC-4016200  | 40               | 32 | 200 | 160 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-4016250  | 40               | 32 | 250 | 210 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-4016300  | 40               | 32 | 300 | 260 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-5016150  | 50               | 32 | 150 | 110 | 4                                                                                 |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-5016200  | 50               | 32 | 200 | 160 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-5016250  | 50               | 32 | 250 | 210 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-5016300  | 50               | 32 | 300 | 260 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-5016150L | 50               | 42 | 150 | 110 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-5016200L | 50               | 42 | 200 | 160 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-5016250L | 50               | 42 | 250 | 210 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| ENCC-5016300L | 50               | 42 | 300 | 260 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |  |  |  |

# EndMill Cutter

## ENCC



### - WELDON SHANK TYPE

INSERT TYPE → **TAEGU-TEC, WIDIN**

| Part No.       | 치수(Dimensions)mm |    |     |     |  |  |  |  |                 |       |           |                 |       |
|----------------|------------------|----|-----|-----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|-------|-----------|-----------------|-------|
|                | D                | d  | L   | l   |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-2517150   | 25               | 25 | 150 | 110 | 2                                                                                   | APKT 1705                                                                            | ST4084-60<br>M4                                                                       | TX-15                                                                                 |                 |       |           |                 |       |
| ENCC-2517200   | 25               | 25 | 200 | 160 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-2617150   | 26               | 25 | 150 | 110 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-2617200   | 26               | 25 | 200 | 160 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-3217150   | 32               | 32 | 150 | 110 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-3217200   | 32               | 32 | 200 | 160 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-3217250   | 32               | 32 | 250 | 210 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-3317150   | 33               | 32 | 150 | 110 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-3317200   | 33               | 32 | 200 | 160 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-3317250   | 33               | 32 | 250 | 210 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-4017150   | 40               | 32 | 150 | 110 | 3                                                                                   |                                                                                      | APKT 1705                                                                             |                                                                                       | ST4084-60<br>M4 | TX-15 |           |                 |       |
| ENCC-4017200   | 40               | 32 | 200 | 160 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-4017250   | 40               | 32 | 250 | 210 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-5017150   | 50               | 32 | 150 | 110 | 4                                                                                   |                                                                                      |                                                                                       |                                                                                       |                 |       | APKT 1705 | ST4084-60<br>M4 | TX-15 |
| ENCC-5017200   | 50               | 32 | 200 | 160 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-5017250   | 50               | 32 | 250 | 210 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-5017150-L | 50               | 42 | 150 | 110 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-5017200-L | 50               | 42 | 200 | 160 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-5017250-L | 50               | 42 | 250 | 210 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-5017150-L | 50               | 42 | 150 | 110 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-5017200-L | 50               | 42 | 200 | 160 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |
| ENCC-5017250-L | 50               | 42 | 250 | 210 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                 |       |           |                 |       |

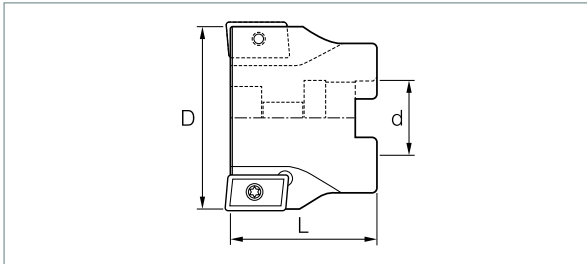
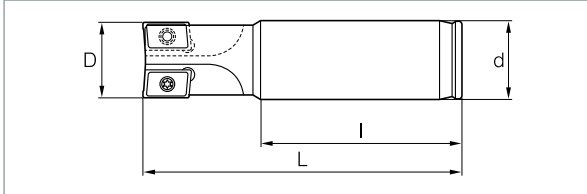
### - BORE MOUNTED TYPE

INSERT TYPE → **TAEGU-TEC, WIDIN**

| Part No.    | 치수(Dimensions)mm |    |    |   |           |               |       |  |
|-------------|------------------|----|----|---|-----------|---------------|-------|--|
|             | D                | d  | L  |   |           |               |       |  |
| ESCC-501722 | 50               | 22 | 50 | 3 | APKT 1705 | ST4101-60W M4 | TX-15 |  |
| ESCC-631722 | 63               | 22 | 50 | 4 |           |               |       |  |
| ESCC-801727 | 80               | 27 | 50 | 7 |           |               |       |  |

# EndMill Cutter

## AHU



### - WELDON SHANK TYPE

INSERT TYPE → [HITACHI](#), [WIDIN](#)

| Part No.    | 치수(Dimensions)mm |    |     |     |   |                 |                   |       |
|-------------|------------------|----|-----|-----|---|-----------------|-------------------|-------|
|             | D                | d  | L   | l   |   |                 |                   |       |
| AHU-1610170 | 16               | 16 | 170 | 140 | 2 | JDMT<br>1003..R | ST2553-55<br>M2.5 | TX-8  |
| AHU-1710170 | 17               | 16 | 170 | 140 |   |                 |                   |       |
| AHU-2010200 | 20               | 20 | 200 | 170 |   |                 |                   |       |
| AHU-2010250 | 20               | 20 | 250 | 210 |   |                 |                   |       |
| AHU-2110200 | 21               | 20 | 200 | 170 |   |                 |                   |       |
| AHU-2110250 | 21               | 20 | 250 | 210 |   |                 |                   |       |
| AHU-2515200 | 25               | 25 | 200 | 160 |   | JDMT<br>1505..R | ST4084-60<br>M4   | TX-15 |
| AHU-2515250 | 25               | 25 | 250 | 210 |   |                 |                   |       |
| AHU-2615200 | 26               | 25 | 200 | 160 |   |                 |                   |       |
| AHU-2615250 | 26               | 25 | 250 | 210 |   |                 |                   |       |
| AHU-3215200 | 32               | 32 | 200 | 160 |   |                 |                   |       |
| AHU-3215250 | 32               | 32 | 250 | 210 |   |                 |                   |       |
| AHU-3215300 | 32               | 32 | 300 | 260 |   |                 |                   |       |
| AHU-3315200 | 33               | 32 | 200 | 160 |   |                 |                   |       |
| AHU-3315250 | 33               | 32 | 250 | 210 |   |                 |                   |       |
| AHU-3315300 | 33               | 32 | 300 | 260 |   |                 |                   |       |

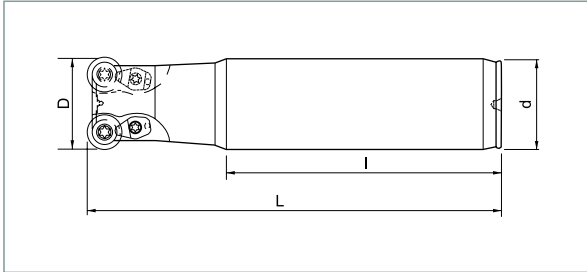
### - BORE MOUNTED TYPE

INSERT TYPE → [HITACHI](#), [WIDIN](#)

| Part No.         | 치수(Dimensions)mm |        |    |   |                 |                  |       |
|------------------|------------------|--------|----|---|-----------------|------------------|-------|
|                  | D                | d      | L  |   |                 |                  |       |
| AHUS-3050-22     | 50               | 22     | 50 | 3 | JDMT<br>1505..R | ST4101-60W<br>M4 | TX-15 |
| AHUS-4050-22     | 50               | 22     | 50 | 4 |                 |                  |       |
| AHUS-3063-22     | 63               | 22     | 50 | 3 |                 |                  |       |
| AHUS-4063-22     | 63               | 22     | 50 | 4 |                 |                  |       |
| AHUS-3050-22.225 | 50               | 22.225 | 50 | 3 |                 |                  |       |
| AHUS-4050-22.225 | 50               | 22.225 | 50 | 4 |                 |                  |       |
| AHUS-3063-25.4   | 63               | 25.4   | 50 | 3 |                 |                  |       |
| AHUS-4063-25.4   | 63               | 25.4   | 50 | 4 |                 |                  |       |

# Round Insert Cutter

## RMCC



### - WELDON SHANK TYPE

INSERT TYPE → [HITACHI](#), [WALTER](#), [WIDIN](#)

| Part No.     | 치수(Dimensions)mm |    |     |     |   |          |               |                |       |
|--------------|------------------|----|-----|-----|---|----------|---------------|----------------|-------|
|              | D                | d  | L   | I   |   |          |               |                |       |
| RMCC-1608170 | 16               | 16 | 170 | 135 | 2 | RDMW0803 |               | ST307-55<br>M3 | TX-8  |
| RMCC-1708170 | 17               | 16 | 170 | 135 |   |          |               |                |       |
| RMCC-2008200 | 20               | 20 | 200 | 165 |   |          |               |                |       |
| RMCC-2108200 | 21               | 20 | 200 | 165 |   |          |               |                |       |
| RMCC-2010200 | 20               | 20 | 200 | 165 |   | RDMT10T3 | CL2C<br>2CICN | ST408-43<br>M4 | TX-15 |
| RMCC-2110200 | 21               | 20 | 200 | 165 |   |          |               |                |       |
| RMCC-2510150 | 25               | 25 | 150 | 115 |   |          |               |                |       |
| RMCC-2510200 | 25               | 25 | 200 | 155 |   |          |               |                |       |
| RMCC-2610150 | 26               | 25 | 150 | 115 |   |          |               |                |       |
| RMCC-2610200 | 26               | 25 | 200 | 155 |   |          |               |                |       |

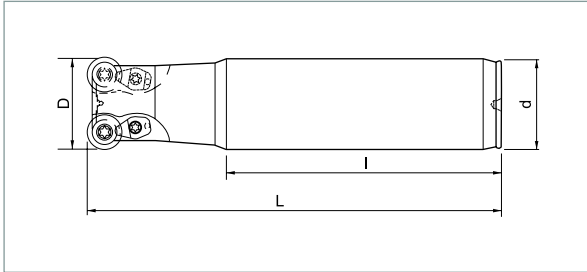
### - WELDON SHANK TYPE

INSERT TYPE → [HITACHI](#), [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |    |     |     |   |          |               |                |      |
|----------------|------------------|----|-----|-----|---|----------|---------------|----------------|------|
|                | D                | d  | L   | I   |   |          |               |                |      |
| RMCC-1608170-H | 16               | 16 | 170 | 135 | 2 | RDMT0802 | CL2C<br>2CLCN | ST307-55<br>M3 | TX-8 |
| RMCC-1708170-H | 17               | 16 | 170 | 135 |   |          |               |                |      |
| RMCC-2008200-H | 20               | 20 | 200 | 165 |   |          |               |                |      |
| RMCC-2108200-H | 21               | 20 | 200 | 165 |   |          |               |                |      |

# Round Insert Cutter

## RMCC



### - WELDON SHANK TYPE

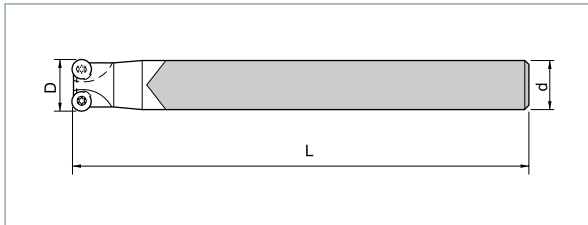
INSERT TYPE → [HITACHI](#), [WALTER](#), [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |    |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------|------------------|----|-----|-----|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
|               | D                | d  | L   | l   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-2512150  | 25               | 25 | 150 | 105 | 2                                                                                 | RDMT 1204<br>RDMW 1204                                                             | CL2C<br>2CLCN                                                                       | ST4084-60<br>M4                                                                     | TX-15                                                                               |  |  |  |  |  |  |  |
| RMCC-2512200  | 25               | 25 | 200 | 155 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-2512250  | 25               | 25 | 250 | 205 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-2612150  | 26               | 25 | 150 | 105 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-2612200  | 26               | 25 | 200 | 155 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-2612250  | 26               | 25 | 250 | 205 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-2612300  | 26               | 25 | 300 | 255 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-3212150  | 32               | 32 | 150 | 100 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-3212200  | 32               | 32 | 200 | 150 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-3212250  | 32               | 32 | 250 | 200 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-3212300  | 32               | 32 | 300 | 250 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-3312150  | 33               | 32 | 150 | 100 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-3312200  | 33               | 32 | 200 | 150 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-3312250  | 33               | 32 | 250 | 200 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-3312300  | 33               | 32 | 300 | 250 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-3512150  | 35               | 32 | 150 | 105 | 3                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-3512200  | 35               | 32 | 200 | 155 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-3512300  | 35               | 32 | 300 | 255 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-4012150  | 40               | 32 | 150 | 105 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-4012200  | 40               | 32 | 200 | 155 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-4012300  | 40               | 32 | 300 | 255 | 4                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-5012150  | 50               | 32 | 150 | 105 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-5012200  | 50               | 32 | 200 | 155 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-5012300  | 50               | 32 | 300 | 255 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-5012150L | 50               | 42 | 150 | 105 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-5012200L | 50               | 42 | 200 | 155 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |
| RMCC-5012300L | 50               | 42 | 300 | 255 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |  |  |  |



# Round Insert Cutter

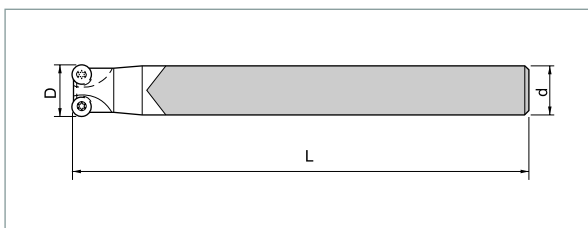
## RDT



### - CARBIDE SHANK TYPE

INSERT TYPE → **TUNGALOY, WIDIN**

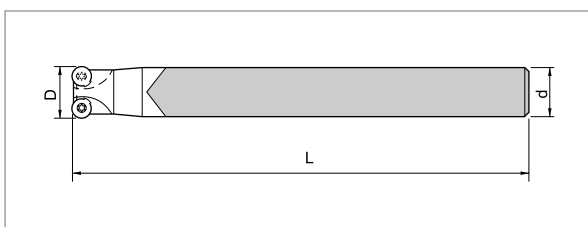
| Part No.    | 치수(Dimensions)mm |    |     |   |             |                  |      |
|-------------|------------------|----|-----|---|-------------|------------------|------|
|             | D                | d  | L   |   |             |                  |      |
| RDT-1010135 | 10               | 10 | 135 | 2 | RDMW 0501MO | CSTD-1.8<br>M1.8 | TX-6 |
| RDT-1110135 | 11               | 10 | 135 |   |             |                  |      |
| RDT-1212150 | 12               | 12 | 150 |   |             |                  |      |
| RDT-1312150 | 13               | 12 | 150 |   |             |                  |      |
| RDT-1616180 | 16               | 16 | 180 |   |             |                  |      |
| RDT-1716180 | 17               | 16 | 180 |   |             |                  |      |



### - CARBIDE SHANK TYPE

INSERT TYPE → **DIJET**

| Part No.    | 치수(Dimensions)mm |    |     |   |               |                  |      |
|-------------|------------------|----|-----|---|---------------|------------------|------|
|             | D                | d  | L   |   |               |                  |      |
| RDT-1010135 | 10               | 10 | 135 | 2 | RDMW 0501MOEN | CSTD-1.8<br>M1.8 | TX-6 |
| RDT-1110135 | 11               | 10 | 135 |   |               |                  |      |
| RDT-1212150 | 12               | 12 | 150 |   |               |                  |      |
| RDT-1312150 | 13               | 12 | 150 |   |               |                  |      |
| RDT-1616180 | 16               | 16 | 180 |   |               |                  |      |
| RDT-1716180 | 17               | 16 | 180 |   |               |                  |      |



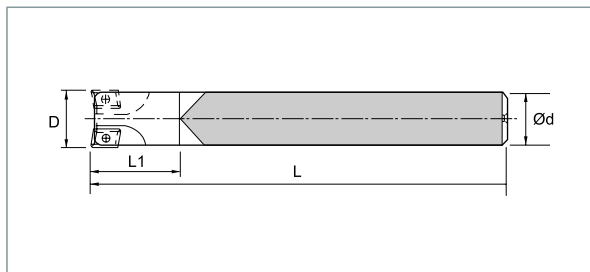
### - CARBIDE SHANK TYPE

INSERT TYPE → **MITSUBISHI**

| Part No.    | 치수(Dimensions)mm |    |     |   |              |                |      |
|-------------|------------------|----|-----|---|--------------|----------------|------|
|             | D                | d  | L   |   |              |                |      |
| RDT-1010135 | 10               | 10 | 135 | 2 | RDMW 0517MOE | TPS2.0<br>M2.0 | TX-6 |
| RDT-1110135 | 11               | 10 | 135 |   |              |                |      |
| RDT-1212150 | 12               | 12 | 150 |   |              |                |      |
| RDT-1312150 | 13               | 12 | 150 |   |              |                |      |
| RDT-1616180 | 16               | 16 | 180 |   |              |                |      |
| RDT-1716180 | 17               | 16 | 180 |   |              |                |      |

# Finishing EndMill Cutter

## ASMC

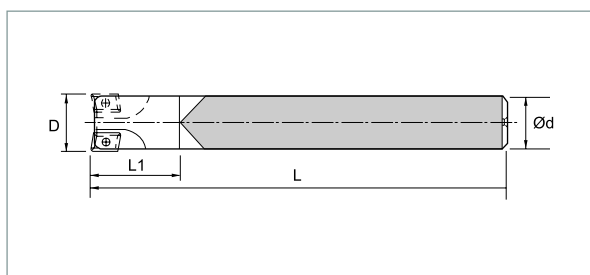


### - CARBIDE SHANK TYPE

INSERT TYPE → [HITACHI](#)

| Part No.     | 치수(Dimensions)mm |    |     |    |  |  |  |  |
|--------------|------------------|----|-----|----|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              | D                | d  | L   | L1 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| ASMC-1010120 | 10               | 10 | 120 | 30 | 2                                                                                 | JDMT0702                                                                           | TS-M1.8                                                                             | TX-6                                                                                |
| ASMC-1110120 | 11               | 10 | 120 |    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| ASMC-1212150 | 12               | 12 | 150 |    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| ASMC-1312150 | 13               | 12 | 150 |    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| ASMC-1616180 | 16               | 16 | 180 |    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| ASMC-1716180 | 17               | 17 | 180 |    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |

## MPMC



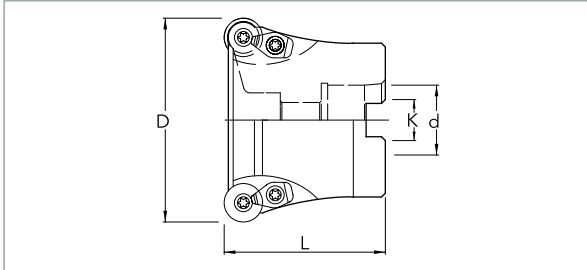
### - CARBIDE SHANK

INSERT TYPE → [DIJET](#), [WIDIN](#)

| Part No.     | 치수(Dimensions)mm |    |     |    |  |  |  |  |
|--------------|------------------|----|-----|----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|              | D                | d  | L   | L1 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| MPMC-1010120 | 10               | 10 | 120 | 30 | 2                                                                                   | EQMC060210ER<br>EOMT060210ZER                                                        | TS-M1.8                                                                               | TX-6                                                                                  |
| MPMC-1110120 | 11               | 10 | 120 |    |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| MPMC-1212150 | 12               | 12 | 150 |    |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| MPMC-1312150 | 13               | 12 | 150 |    |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| MPMC-1616180 | 16               | 16 | 180 |    |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| MPMC-1716180 | 17               | 16 | 180 |    |                                                                                     |                                                                                      |                                                                                       |                                                                                       |

# Round Cutter

## RSCC



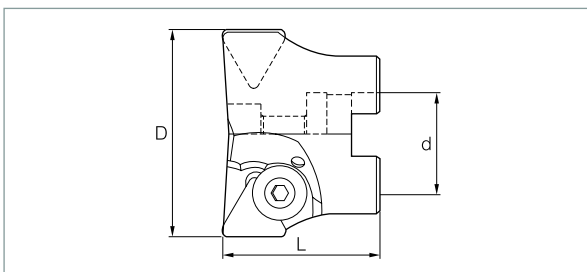
### - BORE MOUNTED TYPE

INSERT TYPE → [HITACHI](#), [WALTER](#), [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |    |    |      |   |          |            |                  |       |
|---------------|------------------|----|----|------|---|----------|------------|------------------|-------|
|               | D                | d  | L  | K    |   |          |            |                  |       |
| RSCC-0501222D | 50               | 22 | 50 | 10.4 | 3 | RDMT1204 | CL2C 2CLCN | ST4101-60W<br>M4 | TX-15 |
| RSCC-0501222D | 50               | 22 |    | 10.4 | 4 |          |            |                  |       |
| RSCC-0631222D | 63               | 22 |    | 10.4 | 5 |          |            |                  |       |
| RSCC-0631227D | 63               | 27 |    | 12.4 | 5 |          |            |                  |       |
| RSCC-0801232D | 80               | 32 |    | 14.4 | 6 |          |            |                  |       |
| RSCC-1001232D | 100              | 32 |    | 14.4 | 8 |          |            |                  |       |
| RSCC-0501622D | 50               | 22 |    | 10.4 | 3 | RDMT1605 | 3CLCN      | ST512-63P<br>M5  | TX-20 |
| RSCC-0631627D | 63               | 27 |    | 12.4 | 4 |          |            |                  |       |
| RSCC-0801632D | 80               | 32 |    | 14.4 | 4 |          |            |                  |       |

# Shell Cutter

## SSCC



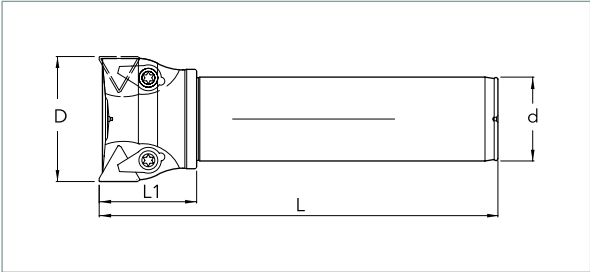
### - BORE MOUNTED TYPE

INSERT TYPE → [TAEGU-TEC](#)

| Part No.     | 치수(Dimensions)mm |       |    |  | SHIM     |  |  |  |  |
|--------------|------------------|-------|----|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|              | D                | d     | L  |                                                                                     |          |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| SSCC-6322254 | 63               | 25.4  | 50 | 3                                                                                   | —        | —                                                                                   | TP..2204                                                                             | CSB-8018                                                                              | L-5                                                                                   |
| SSCC-8022254 | 80               | 25.4  |    | 4                                                                                   | CST-42SE | ST307-55 M3.0                                                                       |                                                                                      |                                                                                       |                                                                                       |
| SSCC-1002231 | 100              | 31.75 |    | 5                                                                                   |          |                                                                                     |                                                                                      |                                                                                       |                                                                                       |

# Shell Cutter(Shank type)

## SSC



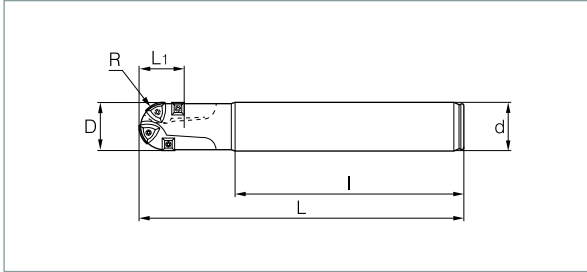
### - WELDON SHANK TYPE

INSERT TYPE → [TAEGU-TEC 외](#)

| Part No.        | 치수(Dimensions)mm |    |     |    |  |  |  |  |
|-----------------|------------------|----|-----|----|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                 | D                | d  | L   | l  |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| SSC-D504222-200 | 50               | 42 | 200 | 50 | 3                                                                                 | TP... 2204                                                                         | TP22                                                                                | L-5                                                                                 |
| SSC-D504222-250 | 50               |    | 250 |    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| SSC-D634222-200 | 63               |    | 200 |    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| SSC-D634222-250 | 63               |    | 250 |    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| SSC-D634222-300 | 63               |    | 300 |    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |

# Ball Cutter

## BMCC



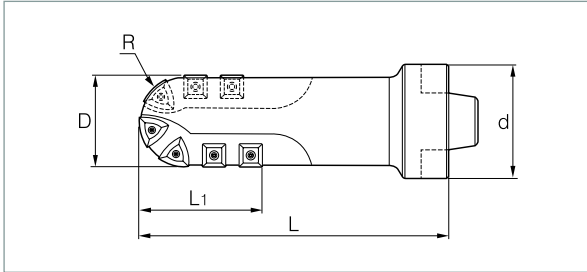
### - WELDON SHANK TYPE

INSERT TYPE → [WALTER](#), [TAEGU-TEC](#), [WIDIN](#)

| Part No.        | 치수(Dimensions)mm |    |      |     |     |      |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT    |  |  |   |                         |   |                |       |       |  |  |  |
|-----------------|------------------|----|------|-----|-----|------|-----------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|-------------------------|---|----------------|-------|-------|--|--|--|
|                 | R                | D  | d    | L   | I   | L1   |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1020135   | 10               | 20 | 20   | 135 | 90  | 20.5 | P26315-R10<br>RBMX 20-M                                                           | 2                | P28415-00<br>SPMT060308                                                             |                     | ST2553-55<br>M2.5                                                                   | TX-8                                                                                |   |                         |   |                |       |       |  |  |  |
| BMCC-R1020170   | 10               | 20 | 20   | 170 | 125 | 20.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1020200   | 10               | 20 | 20   | 200 | 155 | 20.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1225140   | 12,5             | 25 | 25   | 140 | 90  | 23   | P26315-R12<br>RBMX 25-M                                                           |                  |                                                                                     |                     |                                                                                     |                                                                                     | 2 | CSM090308<br>SDMT090308 |   | ST408-43<br>M4 | TX-15 |       |  |  |  |
| BMCC-R1225170   | 12,5             | 25 | 25   | 170 | 120 | 23   |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1225200   | 12,5             | 25 | 25   | 200 | 150 | 23   |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1225250   | 12,5             | 25 | 25   | 250 | 200 | 23   |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1225300   | 12,5             | 25 | 25   | 300 | 250 | 23   | P26315-R15<br>RBMX 30-M                                                           |                  | 3                                                                                   | CSM1208<br>SP..1204 |                                                                                     | ST511-43<br>M5                                                                      |   |                         |   |                |       | TX-20 |  |  |  |
| BMCC-R1532150   | 15               | 30 | 32   | 150 | 80  | 30.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1532200   | 15               | 30 | 32   | 200 | 120 | 30.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1532250   | 15               | 30 | 32   | 250 | 150 | 30.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1532300   | 15               | 30 | 32   | 300 | 250 | 30.5 | P26315-R16<br>RBMX 32-M                                                           |                  |                                                                                     |                     |                                                                                     |                                                                                     |   | 4                       |   |                |       |       |  |  |  |
| BMCC-R1632150   | 16               | 32 | 32   | 150 | 80  | 31.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1632200   | 16               | 32 | 32   | 200 | 120 | 31.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1632250   | 16               | 32 | 32   | 250 | 150 | 31.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R1632300   | 16               | 32 | 32   | 300 | 250 | 31.5 | P26315-R20<br>RBMX 40-M                                                           |                  |                                                                                     | 4                   |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R2042150   | 20               | 40 | 42   | 150 | 80  | 39.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R2042200   | 20               | 40 | 42   | 200 | 80  | 39.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R2542150   | 25               | 50 | 42   | 150 | 80  | 49.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R2542200   | 25               | 50 | 42   | 200 | 85  | 49.5 | RBMX 50-M                                                                         |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         | 4 |                |       |       |  |  |  |
| BMCC-R2542250   | 25               | 50 | 42   | 250 | 85  | 49.5 |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R2550.8200 | 25               | 50 | 50.8 | 200 | 100 | 67   |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |
| BMCC-R2550.8250 | 25               | 50 | 50.8 | 250 | 100 | 67   |                                                                                   |                  |                                                                                     |                     |                                                                                     |                                                                                     |   |                         |   |                |       |       |  |  |  |

# Ball Cutter

## BMCC-MD

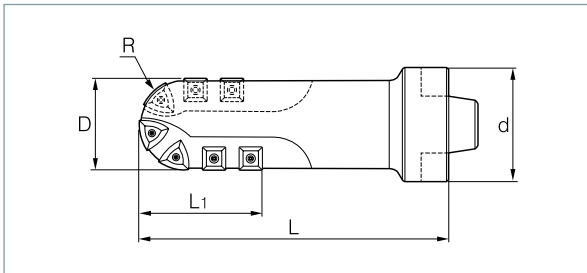


### - WELDON SHANK TYPE

INSERT TYPE → [WALTER](#), [TAEGU-TEC](#), [WIDIN](#)

| Part No.         | 치수(Dimensions)mm |    |    |     |    |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT |  |  |
|------------------|------------------|----|----|-----|----|-----------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                  | R                | D  | d  | L   | L1 |                                                                                   |                  |                                                                                     |                  |                                                                                     |                                                                                     |
| BMCC-R2563140    | 25               | 50 | 63 | 140 | 67 | RBEX 50M<br>RBMX 50-M                                                             | 3                | SP..1204                                                                            | 4                | ST511-43<br>M5                                                                      | TX-20                                                                               |
| BMCC-R2563170    |                  |    | 63 | 170 | 67 |                                                                                   |                  |                                                                                     |                  |                                                                                     |                                                                                     |
| BMCC-R2563170-SP |                  |    | 63 | 170 | 87 |                                                                                   |                  |                                                                                     |                  |                                                                                     |                                                                                     |
| BMCC-R2563200    |                  |    | 63 | 200 | 87 |                                                                                   |                  |                                                                                     |                  |                                                                                     |                                                                                     |
| BMCC-R2563250    |                  |    | 63 | 250 | 87 |                                                                                   |                  |                                                                                     | 6                |                                                                                     |                                                                                     |
| BMCC-R2580300    |                  |    | 80 | 300 | 87 |                                                                                   |                  |                                                                                     |                  |                                                                                     |                                                                                     |
| BMCC-R2580350    |                  |    | 80 | 350 | 87 |                                                                                   |                  |                                                                                     |                  |                                                                                     |                                                                                     |

## BPUX



### - WELDON SHANK TYPE

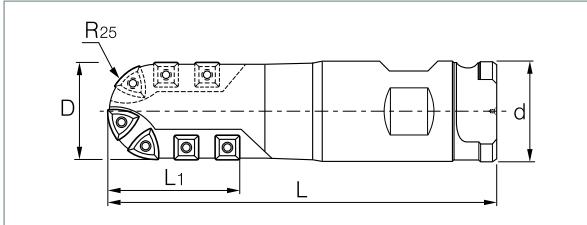
INSERT TYPE → [HITACHI](#), [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |    |    |     |    |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT |  |  |
|---------------|------------------|----|----|-----|----|-------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|               | R                | D  | d  | L   | L1 |                                                                                     |                  |                                                                                       |                  |                                                                                       |                                                                                       |
| BPUX-R2563140 | 25               | 50 | 63 | 140 | 67 | YPNW25006S<br>YPMT25006S                                                            | 3                | SPMT120408                                                                            | 4                | 912-141 M6<br>ST511-43 M5                                                             | TX-25<br>TX-20                                                                        |
| BPUX-R2563170 |                  |    |    | 170 |    |                                                                                     |                  |                                                                                       |                  |                                                                                       |                                                                                       |
| BPUX-R2563200 |                  |    |    | 200 |    |                                                                                     |                  |                                                                                       |                  |                                                                                       |                                                                                       |
| BPUX-R2563250 |                  |    |    | 250 |    |                                                                                     |                  |                                                                                       |                  |                                                                                       |                                                                                       |



# Ball Cutter

## BPUX

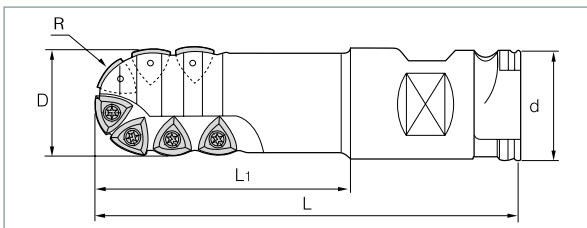


### - WELDON SHANK TYPE

INSERT TYPE → [HITACHI, WIDIN](#)

| Part No.        | 치수(Dimensions)mm |    |      |     |    |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT |  |  |
|-----------------|------------------|----|------|-----|----|-----------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                 | R                | D  | d    | L   | L1 |                                                                                   |                  |                                                                                     |                  |                                                                                     |                                                                                     |
| BPUX-R2550.8200 | 25               | 50 | 50.8 | 200 | 67 |  | 3                |  | 4                |  |  |
| BPUX-R2550.8250 |                  |    |      | 250 |    |                                                                                   |                  |                                                                                     |                  |                                                                                     |                                                                                     |
| BPUX-R2550.8300 |                  |    |      | 300 |    |                                                                                   |                  |                                                                                     |                  |                                                                                     |                                                                                     |
|                 |                  |    |      |     |    | YPNW25006S<br>YPMT25006S                                                          |                  | SPMT120408                                                                          |                  | 912-141 M6<br>ST511-43 M5                                                           | TX-25<br>TX-20                                                                      |

## WRMC-T

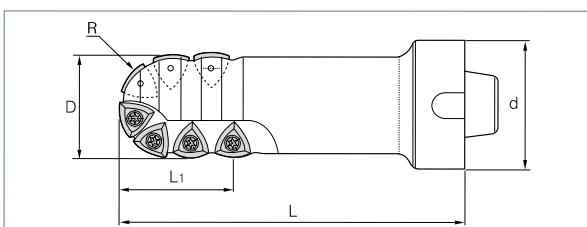


### - WELDON SHANK TYPE

INSERT TYPE → [TAEGU-TEC, WIDIN](#)

| Part No.          | 치수(Dimensions)mm |    |      |     |     | NO.OFF<br>INSERT |  |  |  |
|-------------------|------------------|----|------|-----|-----|------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                   | R                | D  | d    | L   | L1  |                  |                                                                                     |                                                                                       |                                                                                       |
| WRMC-R2550.8200-T | 25               | 50 | 50.8 | 200 | 100 | 7                |  |  |  |
| WRMC-R2550.8250-T |                  |    |      | 250 | 150 |                  |                                                                                     |                                                                                       |                                                                                       |
| WRMC-R2550.8300-T |                  |    |      | 300 | 200 |                  |                                                                                     |                                                                                       |                                                                                       |
|                   |                  |    |      |     |     |                  | RBMX50-M                                                                            | ST511-43                                                                              | TX-20                                                                                 |

## WRMC-T



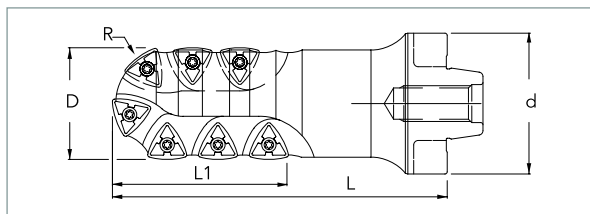
### - MODULAR SHANK TYPE

INSERT TYPE → [TAEGU-TEC, WIDIN](#)

| Part No.        | 치수(Dimensions)mm |    |    |     |    | NO.OFF<br>INSERT |  |  |  |
|-----------------|------------------|----|----|-----|----|------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                 | R                | D  | d  | L   | L1 |                  |                                                                                     |                                                                                       |                                                                                       |
| WRMC-R2563140-T | 25               | 50 | 63 | 140 | 65 | 7                |  |  |  |
| WRMC-R2563170-T |                  |    |    | 170 |    |                  |                                                                                     |                                                                                       |                                                                                       |
| WRMC-R2563200-T |                  |    |    | 200 |    |                  |                                                                                     |                                                                                       |                                                                                       |
|                 |                  |    |    |     |    |                  | RBMX50-M                                                                            | ST511-43                                                                              | TX-20                                                                                 |

# Ball Cutter

## TRMC

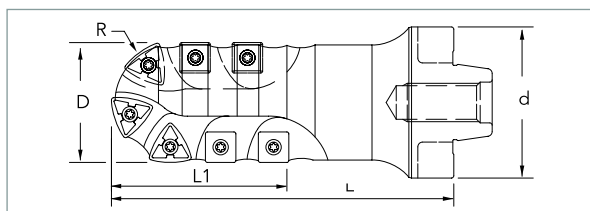


### - MODULAR SHANK TYPE

INSERT TYPE → **TAEGU-TEC**

| Part No.      | 치수(Dimensions)mm |    |    |     |    |  | NO.OFF<br>INSERT |  |  |
|---------------|------------------|----|----|-----|----|-----------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|               | R                | D  | d  | L   | L1 |                                                                                   |                  |                                                                                     |                                                                                     |
| TRMC-R2563140 | 25               | 50 | 63 | 140 | 77 | 6RBE-50M                                                                          | 7                | ST511-43 M5                                                                         | TX-20                                                                               |
| TRMC-R2563170 |                  |    |    | 170 |    |                                                                                   |                  |                                                                                     |                                                                                     |
| TRMC-R2563200 |                  |    |    | 200 |    |                                                                                   |                  |                                                                                     |                                                                                     |

## TRMS



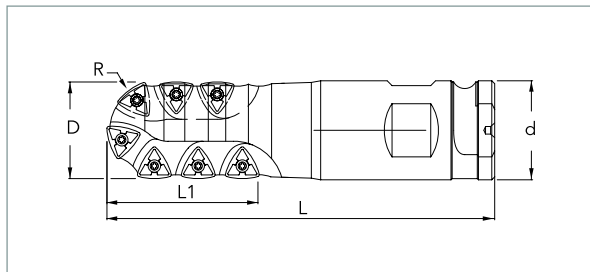
### - MODULAR SHANK TYPE

INSERT TYPE → **TAEGU-TEC**

| Part No.      | 치수(Dimensions)mm |    |    |     |    |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT |  |  |
|---------------|------------------|----|----|-----|----|-------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|               | R                | D  | d  | L   | L1 |                                                                                     |                  |                                                                                      |                  |                                                                                       |                                                                                       |
| TRMS-R2563140 | 25               | 50 | 63 | 140 | 67 | 6RBE-50M                                                                            | 3                | SP...1204                                                                            | 4                | ST511-43 M5                                                                           | TX-20                                                                                 |
| TRMS-R2563170 |                  |    |    | 170 |    |                                                                                     |                  |                                                                                      |                  |                                                                                       |                                                                                       |
| TRMS-R2563200 |                  |    |    | 200 |    |                                                                                     |                  |                                                                                      |                  |                                                                                       |                                                                                       |

# Ball Cutter

## TRMC

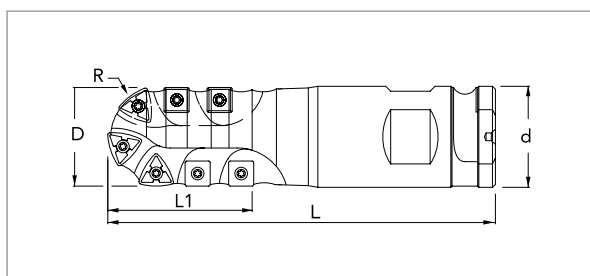


### - WELDON SHANK TYPE

INSERT TYPE → [TAEGU-TEC](#)

| Part No.        | 치수(Dimensions)mm |    |      |     |    |  | NO.OFF<br>INSERT |  |  |
|-----------------|------------------|----|------|-----|----|-----------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                 | R                | D  | d    | L   | L1 |                                                                                   |                  |                                                                                     |                                                                                     |
| TRMC-R2550.8200 | 25               | 50 | 50.8 | 200 | 77 | 6RBE-50M                                                                          | 7                | ST511-43 M5                                                                         | TX-20                                                                               |
| TRMC-R2550.8250 |                  |    |      | 250 |    |                                                                                   |                  |                                                                                     |                                                                                     |
| TRMC-R2550.8300 |                  |    |      | 300 |    |                                                                                   |                  |                                                                                     |                                                                                     |

## TRMS



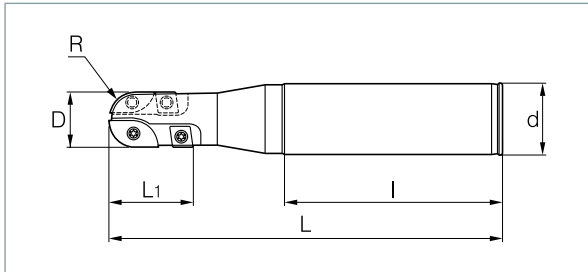
### - WELDON SHANK TYPE

INSERT TYPE → [TAEGU-TEC](#)

| Part No.        | 치수(Dimensions)mm |    |      |     |    |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT |  |  |
|-----------------|------------------|----|------|-----|----|-------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                 | R                | D  | d    | L   | L1 |                                                                                     |                  |                                                                                       |                  |                                                                                       |                                                                                       |
| TRMS-R2550.8200 | 25               | 50 | 50.8 | 200 | 67 | 6RBE-50M                                                                            | 3                | SP..1204                                                                              | 4                | ST511-43 M5                                                                           | TX-20                                                                                 |
| TRMS-R2550.8250 |                  |    |      | 250 |    |                                                                                     |                  |                                                                                       |                  |                                                                                       |                                                                                       |
| TRMS-R2550.8300 |                  |    |      | 300 |    |                                                                                     |                  |                                                                                       |                  |                                                                                       |                                                                                       |

# Ball Cutter

## BWSF

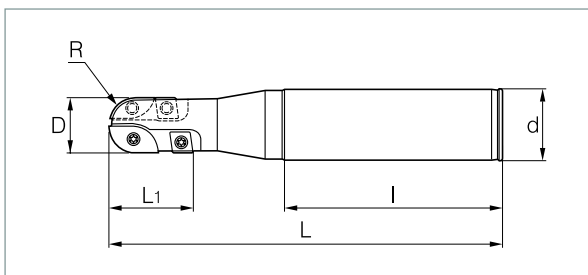


### - WELDON SHANK TYPE

INSERT TYPE → [WALTER](#)

| Part No.      | 치수(Dimensions)mm |    |    |     |     |    | NO.OFF<br>INSERT |                              |          |                                 |                |
|---------------|------------------|----|----|-----|-----|----|------------------|------------------------------|----------|---------------------------------|----------------|
|               | R                | D  | d  | L   | I   | L1 |                  |                              |          |                                 |                |
| BWSF-R1020160 | 10               | 20 | 20 | 160 | 95  | 28 | 4                | XD..16T3100R                 | SP..0603 | ST3072-60H M3<br>ST2553-55 M2.5 | TX-8           |
| BWSF-R1020200 | 10               | 20 | 20 | 200 | 130 | 28 |                  | XD..2004125R                 |          | ST4101-60W M4<br>ST2553-55 M2.5 | TX-15<br>TX-8  |
| BWSF-R1225160 | 12.5             | 25 | 25 | 160 | 95  | 32 |                  | XD..2405150R<br>XD..2506160R | SP..09T3 | ST512-63P M5<br>ST4084-60 M4    | TX-20<br>TX-15 |
| BWSF-R1225200 | 12.5             | 25 | 25 | 200 | 130 | 32 |                  |                              |          |                                 |                |
| BWSF-R1532180 | 15               | 30 | 32 | 180 | 109 | 42 |                  |                              |          |                                 |                |
| BWSF-R1532250 | 15               | 30 | 32 | 250 | 150 | 42 |                  |                              |          |                                 |                |
| BWSF-R1632180 | 16               | 32 | 32 | 180 | 100 | 43 |                  |                              |          |                                 |                |
| BWSF-R1632250 | 16               | 32 | 32 | 250 | 150 | 43 |                  |                              |          |                                 |                |

## BWSC



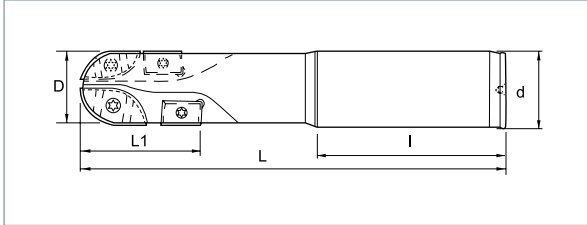
### - WELDON SHANK TYPE

INSERT TYPE → [WALTER](#)

| Part No.      | 치수(Dimensions)mm |    |    |     |     | NO.OFF<br>INSERT |  |  |  |  |
|---------------|------------------|----|----|-----|-----|------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|               | R                | D  | d  | L   | I   |                  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| BWSC-R1020160 | 10               | 20 | 20 | 160 | 95  | 4                | XDMT 16T3100R                                                                       | SPMT 0603                                                                             | ST3072-60H M3<br>ST2553-55 M2.5                                                       | TX-8                                                                                  |
| BWSC-R1020200 | 10               | 20 | 20 | 200 | 130 |                  | XDMT 2004125R                                                                       |                                                                                       | ST4101-60W M4<br>ST2553-55 M2.5                                                       | TX-15<br>TX-8                                                                         |
| BWSC-R1225160 | 12.5             | 25 | 25 | 160 | 95  |                  | XDMT 2405150R<br>XDMT 2506160R                                                      | SPMT 09T3                                                                             | ST512-63P M5<br>ST4084-60 M4                                                          | TX-20<br>TX-15                                                                        |
| BWSC-R1225200 | 12.5             | 25 | 25 | 200 | 130 |                  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| BWSC-R1532180 | 15               | 30 | 32 | 180 | 109 |                  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| BWSC-R1532250 | 15               | 30 | 32 | 250 | 150 |                  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| BWSC-R1632180 | 16               | 32 | 32 | 180 | 100 |                  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| BWSC-R1632250 | 16               | 32 | 32 | 250 | 150 |                  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |

# Ball Cutter

## SRM

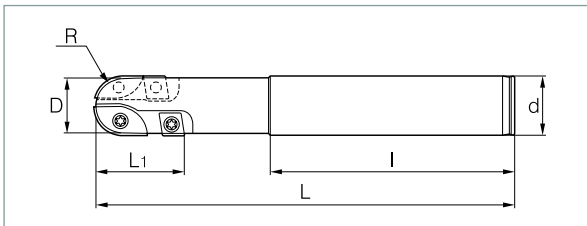


### - WELDON SHANK TYPE

INSERT TYPE → [MITSUBISHI](#)

| Part No.        | 치수(Dimensions)mm |    |    |     |     |    | 안쪽날                                                                               | 바깥날                                                                               | 외경날                                                                               |  |  |
|-----------------|------------------|----|----|-----|-----|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                 | R                | D  | d  | L   | I   | L1 |  |  |  |                                                                                     |                                                                                     |
| SRM-R0816200-2F | 8                | 16 | 16 | 200 | 150 | 30 | SR.16C                                                                            | SR.16E                                                                            | APMT 1135                                                                         | ST2553-55 M2,5                                                                      | TX-8                                                                                |
| SRM-R1020200-4F | 10               | 20 | 20 | 200 | 140 | 30 | SR.20C                                                                            | SR.20E                                                                            |                                                                                   | ST3072-60H M3<br>ST2553-55 M2,5                                                     | TX-8                                                                                |
| SRM-R1225200-4F | 12,5             | 25 | 25 | 200 | 130 | 37 | SR.25C                                                                            | SR.25E                                                                            |                                                                                   | ST4101-60W M4<br>ST2553-55 M2,5                                                     | TX-15<br>TX-8                                                                       |
| SRM-R1225250-4F | 12,5             | 25 | 25 | 250 | 130 | 37 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| SRM-R1532200-4F | 15               | 30 | 32 | 200 | 100 | 44 | SR.30C                                                                            | SR.30E                                                                            | APMT 1604                                                                         | TSB-263141 M5<br>ST4084-60 M4                                                       | TX-20<br>TX-15                                                                      |
| SRM-R1532250-4F | 15               | 30 | 32 | 250 | 150 | 44 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| SRM-R1532300-4F | 15               | 30 | 32 | 300 | 250 | 44 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |

## BHSF



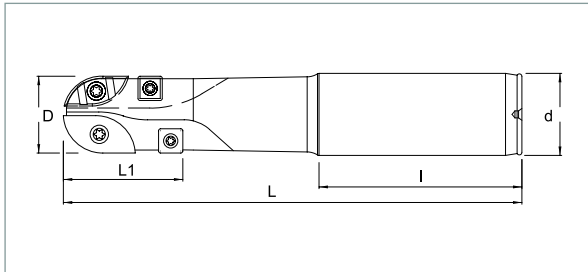
### - WELDON SHANK TYPE

INSERT TYPE → [HITACHI](#)

| Part No.      | 치수(Dimensions)mm |    |    |     |     |    | 안쪽날<br> | 바깥날<br> | 외경날<br> |  |  |  |
|---------------|------------------|----|----|-----|-----|----|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
|               | R                | D  | d  | L   | I   | L1 |                                                                                            |                                                                                              |                                                                                              |                                                                                       |                                                                                       |  |
| BHSF-R0816200 | 8                | 16 | 16 | 200 | 150 | 15 | ZCET080CE                                                                                  | ZCET080SE                                                                                    |                                                                                              | ST2553-55 M2,5                                                                        | TX-8                                                                                  |  |
| BHSF-R1020160 | 10               | 20 | 20 | 160 | 100 | 30 | ZCE,100CE                                                                                  | ZCE,100SE                                                                                    | CPMT 080204                                                                                  | ST3072-60H M3<br>ST2553-55 M2,5                                                       |                                                                                       |  |
| BHSF-R1020200 | 10               | 20 | 20 | 200 | 140 | 30 |                                                                                            |                                                                                              |                                                                                              |                                                                                       |                                                                                       |  |
| BHSF-R1225200 | 12,5             | 25 | 25 | 200 | 130 | 37 | ZCE,125CE                                                                                  | ZCE,125SE                                                                                    | CPMT 090308                                                                                  | ST4101-60W M4<br>ST408-43 M4                                                          | TX-15                                                                                 |  |
| BHSF-R1225250 | 12,5             | 25 | 25 | 250 | 170 | 37 |                                                                                            |                                                                                              |                                                                                              |                                                                                       |                                                                                       |  |
| BHSF-R1532200 | 15               | 30 | 32 | 200 | 100 | 44 | ZCE,150CE                                                                                  | ZCE,150SE                                                                                    |                                                                                              | TSB-263141 M5<br>ST408-43 M4                                                          | TX-20<br>TX-15                                                                        |  |
| BHSF-R1532250 | 15               | 30 | 32 | 250 | 100 | 44 |                                                                                            |                                                                                              |                                                                                              |                                                                                       |                                                                                       |  |
| BHSF-R1532300 | 15               | 30 | 32 | 300 | 250 | 44 |                                                                                            |                                                                                              |                                                                                              |                                                                                       |                                                                                       |  |
| BHSF-R1632200 | 16               | 32 | 32 | 200 | 100 | 44 | ZCE,160CE                                                                                  | ZCE,160SE                                                                                    |                                                                                              |                                                                                       |                                                                                       |  |
| BHSF-R1632250 | 16               | 32 | 32 | 250 | 200 | 44 |                                                                                            |                                                                                              |                                                                                              |                                                                                       |                                                                                       |  |
| BHSF-R1632300 | 16               | 32 | 32 | 300 | 250 | 44 |                                                                                            |                                                                                              |                                                                                              |                                                                                       |                                                                                       |  |

# Ball Cutter

## GBEC



### - WELDON SHANK TYPE

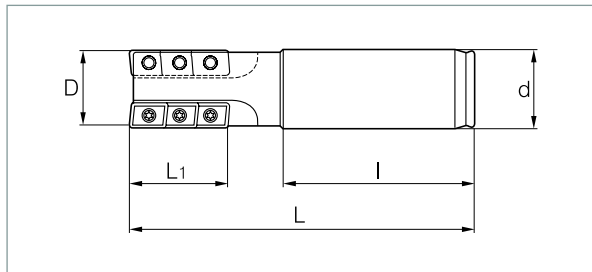
INSERT TYPE → **KORLOY, WIDIN**

| Part No.         | 치수(Dimensions)mm |    |    |     |     |    | 안쪽날                                                                               | 바깥날                                                                                | 외주날                                                                                 |                                                                                     |                                                                                     |
|------------------|------------------|----|----|-----|-----|----|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                  | R                | D  | d  | L   | I   | L1 |  |  |  |  |  |
| GBEC-R0816200-2F | 8                | 16 | 16 | 200 | 150 | 15 | ZPET080M                                                                          | ZPET080S                                                                           |                                                                                     | ST2553-55 M2.5                                                                      | TX-8                                                                                |
| GBEC-R1020200-4F | 10               | 20 | 20 | 200 | 140 | 28 | ZPET100M                                                                          | ZPET100S                                                                           | SPMT<br>060304                                                                      | ST3072-60H M3<br>ST2553-55 M2.5                                                     | TX-8                                                                                |
| GBEC-R1225200-4F | 12.5             | 25 | 25 | 200 | 130 | 33 | ZPET125M                                                                          | ZPET125S                                                                           |                                                                                     | ST4101-60W M4<br>ST2553-55 M2.5                                                     | TX-8<br>TX-15                                                                       |
| GBEC-R1225250-4F | 12.5             | 25 | 25 | 250 | 130 | 33 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| GBEC-R1532200-4F | 15               | 30 | 32 | 200 | 100 | 41 | ZPET150M                                                                          | ZPET150S                                                                           | SPMT<br>090308                                                                      | TSB-263141 M5<br>ST4084-60 M4                                                       | TX-15<br>TX-20                                                                      |
| GBEC-R1532250-4F | 15               | 30 | 32 | 250 | 150 | 41 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| GBEC-R1532300-4F | 15               | 30 | 32 | 300 | 250 | 41 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |



# Helical Cutter

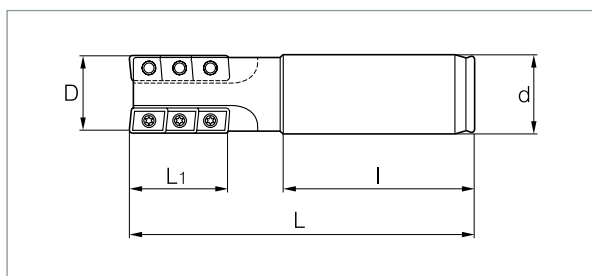
## HESC



### - WELDON SHANK TYPE

INSERT TYPE → **WALTER**

| Part No.           | 치수(Dimensions)mm |      |     |    |    |  |  | NO.OFF<br>INSERT |  |  |
|--------------------|------------------|------|-----|----|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    | D                | d    | L   | I  | L1 |                                                                                   |                                                                                   |                  |                                                                                     |                                                                                     |
| HESC-3216120-W     | 32               | 32   | 120 | 60 | 40 | 2                                                                                 | ADMT160608R                                                                       | 6                | ST4084-60 M4                                                                        | TX-15                                                                               |
| HESC-3216150-W     | 32               | 32   | 150 | 60 | 67 |                                                                                   |                                                                                   | 10               |                                                                                     |                                                                                     |
| HESC-4016135-W     | 40               | 32   | 135 | 80 | 40 | 3                                                                                 |                                                                                   | 12               | ST4101-60W M4                                                                       |                                                                                     |
| HESC-4016160-W     | 40               | 32   | 160 | 80 | 67 |                                                                                   |                                                                                   | 15               |                                                                                     |                                                                                     |
| HESC-5016170-W     | 50               | 42   | 170 | 80 | 67 |                                                                                   |                                                                                   | 15               |                                                                                     |                                                                                     |
| HESC-501650.8220-W | 50               | 50.8 | 220 | 80 | 67 |                                                                                   |                                                                                   | 15               |                                                                                     |                                                                                     |



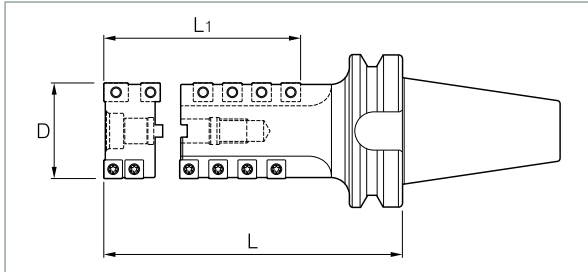
### - WELDON SHANK TYPE

INSERT TYPE → **TAEGU-TEC, SECO, KORLOY, WIDIN**

| Part No.         | 치수(Dimensions)mm |      |     |    |     |  |  | NO.OFF<br>INSERT |  |  |
|------------------|------------------|------|-----|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                  | D                | d    | L   | I  | L1  |                                                                                     |                                                                                     |                  |                                                                                       |                                                                                       |
| HESC-3216120     | 32               | 32   | 120 | 60 | 42  | 2                                                                                   | AP...1604                                                                           | 6                | ST4084-60<br>M4                                                                       | TX-15                                                                                 |
| HESC-3216150     | 32               | 32   | 150 | 60 | 70  |                                                                                     |                                                                                     | 10               |                                                                                       |                                                                                       |
| HESC-4016135     | 40               | 32   | 135 | 60 | 56  | 3                                                                                   |                                                                                     | 12               | ST4101-60W<br>M4                                                                      |                                                                                       |
| HESC-4016160     | 40               | 32   | 160 | 70 | 70  |                                                                                     |                                                                                     | 15               |                                                                                       |                                                                                       |
| HESC-5016170     | 50               | 42   | 170 | 80 | 70  |                                                                                     |                                                                                     | 15               |                                                                                       |                                                                                       |
| HESC-501650.8220 | 50               | 50.8 | 220 | 80 | 112 |                                                                                     |                                                                                     | 24               |                                                                                       |                                                                                       |

# Helical Cutter

## HMCC-BT

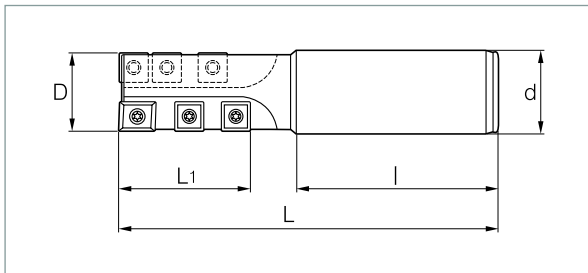


### - MODULAR SHANK TYPE

INSERT TYPE → [WALTER](#), [TAEGU-TEC](#), [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |     |     |  |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT |  |  |  |
|----------------|------------------|-----|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                | D                | L   | L1  |                                                                                   |                                                                                   |                  |                                                                                    |                  |                                                                                     |                                                                                     |                                                                                     |
| HMCC-BT5050185 | 50               | 185 | 110 | 4                                                                                 | APMT<br>1504T-WT                                                                  | 2                | SPMT1204                                                                           | 22               | FPB 5024                                                                            | ST511-43<br>M5                                                                      | TX-20                                                                               |
| HMCC-BT5050205 | 50               | 205 | 130 |                                                                                   |                                                                                   |                  |                                                                                    | 26               |                                                                                     |                                                                                     |                                                                                     |
| HMCC-BT5050235 | 50               | 235 | 160 |                                                                                   |                                                                                   |                  |                                                                                    | 32               |                                                                                     |                                                                                     |                                                                                     |
| HMCC-BT5050255 | 50               | 255 | 180 |                                                                                   |                                                                                   |                  |                                                                                    | 36               |                                                                                     |                                                                                     |                                                                                     |
| HMCC-BT5063165 | 63               | 169 | 90  |                                                                                   | 18                                                                                |                  |                                                                                    | FPB 6334         |                                                                                     |                                                                                     |                                                                                     |
| HMCC-BT5063195 | 63               | 195 | 120 |                                                                                   | 24                                                                                |                  |                                                                                    |                  |                                                                                     |                                                                                     |                                                                                     |
| HMCC-BT5063225 | 63               | 225 | 150 |                                                                                   | 30                                                                                |                  |                                                                                    |                  |                                                                                     |                                                                                     |                                                                                     |
| HMCC-BT5063265 | 63               | 265 | 190 |                                                                                   | 38                                                                                |                  |                                                                                    |                  |                                                                                     |                                                                                     |                                                                                     |
| HMCC-BT5063390 | 63               | 390 | 220 |                                                                                   | 44                                                                                |                  |                                                                                    |                  |                                                                                     |                                                                                     |                                                                                     |

## HNCC



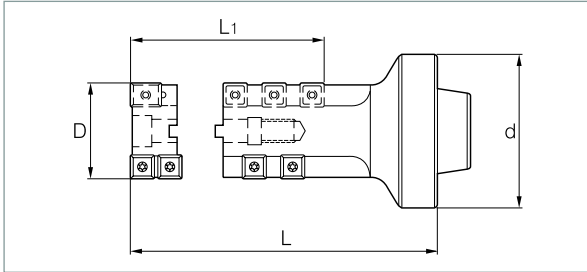
### - WELDON SHANK TYPE

INSERT TYPE → [WALTER](#), [TAEGU-TEC](#), [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |      |     |    |    | NO.OFF<br>INSERT |   |             |                         |                |       |
|----------------|------------------|------|-----|----|----|------------------|---|-------------|-------------------------|----------------|-------|
|                | D                | d    | L   | I  | L1 |                  |   |             |                         |                |       |
| HNCC-2025110   | 20               | 25   | 110 | 65 | 32 | 1 / 6            | 2 | P27215-00   | P28415-00<br>(SP..0603) | ST2553-55 M2.5 | TX-8  |
| HNCC-2525120   | 25               | 25   | 120 | 75 | 32 | 1 / 6            |   |             |                         |                |       |
| HNCC-3232150   | 32               | 32   | 150 | 75 | 42 | 1 / 5            | 4 |             |                         |                |       |
| HNCC-4032155   | 40               | 32   | 155 | 75 | 50 | 2 / 12           |   | P27215-3    | P28415-0<br>(SD..0903)  | ST408-43 M4    | TX-15 |
| HNCC-4042165   | 40               | 42   | 165 | 85 | 50 | 2 / 12           |   |             |                         |                |       |
| HNCC-5042170   | 50               | 42   | 170 | 85 | 56 | 2 / 10           |   | ZPMT1504-WM | (SP..1204)              | ST511-43 M5    | TX-20 |
| HNCC-5050.8200 | 50               | 50.8 | 200 | 85 | 76 | 2 / 14           |   |             |                         |                |       |

# Helical Cutter

## HMCC-MD

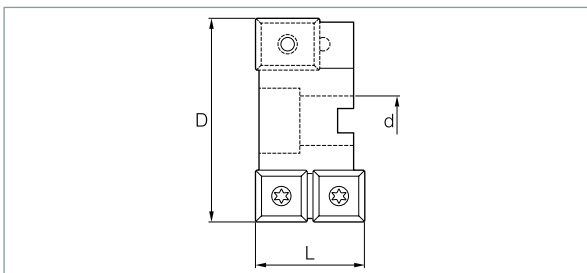


### - MODULAR SHANK TYPE

INSERT TYPE → [WALTER](#), [TAEGU-TEC](#), [WIDIN](#)

| Part No.     | 치수(Dimensions)mm |    |     |     |  |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT |  |  |  |
|--------------|------------------|----|-----|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              | D                | d  | L   | L1  |                                                                                   |                                                                                   |                  |                                                                                    |                  |                                                                                     |                                                                                     |                                                                                     |
| HMCC-5080135 | 50               | 80 | 135 | 76  | 4                                                                                 | APMT<br>1504T-WT<br><br>ZPMT<br>1504-WM                                           | 2                | SPMT1204                                                                           | 14               | FPB 5024                                                                            | ST511-43<br>M5                                                                      | TX-20                                                                               |
| HMCC-5080155 | 50               | 80 | 155 | 96  |                                                                                   |                                                                                   |                  |                                                                                    | 18               |                                                                                     |                                                                                     |                                                                                     |
| HMCC-5080185 | 50               | 80 | 185 | 126 |                                                                                   |                                                                                   |                  |                                                                                    | 24               |                                                                                     |                                                                                     |                                                                                     |
| HMCC-5080205 | 50               | 80 | 205 | 146 |                                                                                   |                                                                                   |                  |                                                                                    | 28               |                                                                                     |                                                                                     |                                                                                     |
| HMCC-6380135 | 63               | 80 | 135 | 86  |                                                                                   |                                                                                   |                  |                                                                                    | 16               | FPB 6334                                                                            |                                                                                     |                                                                                     |
| HMCC-6380165 | 63               | 80 | 165 | 114 |                                                                                   |                                                                                   |                  |                                                                                    | 22               |                                                                                     |                                                                                     |                                                                                     |
| HMCC-6380195 | 63               | 80 | 195 | 146 |                                                                                   |                                                                                   |                  |                                                                                    | 28               |                                                                                     |                                                                                     |                                                                                     |
| HMCC-6380235 | 63               | 80 | 235 | 186 |                                                                                   |                                                                                   |                  |                                                                                    | 36               |                                                                                     |                                                                                     |                                                                                     |
| HMCC-8080155 | 80               | 80 | 155 | 106 | 6                                                                                 | 3                                                                                 | 30               | FPB8034                                                                            |                  |                                                                                     |                                                                                     |                                                                                     |

## FPCC



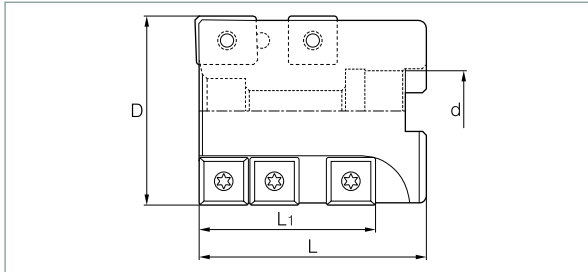
### - BORE MOUNTED TYPE

INSERT TYPE → [WALTER](#), [TAEGU-TEC](#), [WIDIN](#)

| Part No.  | 치수(Dimensions)mm |      |    |  |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT |  |  |  |
|-----------|------------------|------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|           | D                | d    | L  |                                                                                     |                                                                                     |                  |                                                                                      |                  |                                                                                       |                                                                                       |                                                                                       |
| FPCC-5024 | 50               | 12.5 | 24 | 4                                                                                   | APMT<br>1504T-WT<br><br>ZPMT<br>1504-WM                                             | 2                | SPMT1204                                                                             | 4                | FPB5024                                                                               | ST511-43<br>M5                                                                        | TX-20                                                                                 |
| FPCC-5055 | 50               | 12.5 | 50 |                                                                                     |                                                                                     |                  |                                                                                      | 10               | FPB5050                                                                               |                                                                                       |                                                                                       |
| FPCC-5424 | 54               | 12.5 | 24 |                                                                                     |                                                                                     |                  |                                                                                      | 4                | FPB5024                                                                               |                                                                                       |                                                                                       |
| FPCC-5455 | 54               | 12.5 | 50 |                                                                                     |                                                                                     |                  |                                                                                      | 10               | FPB5050                                                                               |                                                                                       |                                                                                       |
| FPCC-6334 | 63               | 16.5 | 34 |                                                                                     |                                                                                     |                  |                                                                                      | 6                | FPB6334                                                                               |                                                                                       |                                                                                       |
| FPCC-6365 | 63               | 16.5 | 65 | 12                                                                                  |                                                                                     | FPB6365          |                                                                                      |                  |                                                                                       |                                                                                       |                                                                                       |
| FPCC-8034 | 80               | 18.0 | 34 | 6                                                                                   |                                                                                     | 3                |                                                                                      | 9                | FPB8034                                                                               |                                                                                       |                                                                                       |

# Shell Mill Cutter

## SMCC

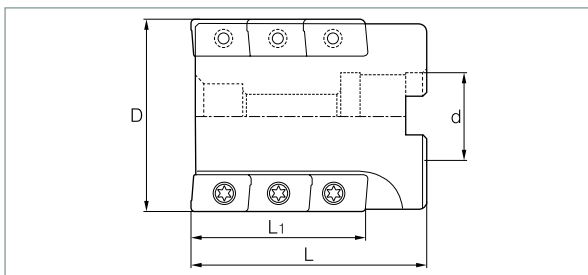


### - BORE MOUNTED TYPE

INSERT TYPE → [WALTER](#), [TAEGU-TEC](#), [KORLOY](#), [WIDIN](#)

| Part No.     | 치수(Dimensions)mm |    |    |    |   | NO.OFF<br>INSERT |                             |          |                |
|--------------|------------------|----|----|----|---|------------------|-----------------------------|----------|----------------|
|              | D                | d  | L  | L1 |   |                  |                             |          |                |
| SMCC-5022060 | 50               | 22 | 60 | 34 | 4 | 2/6              | APMT1504T-WT<br>ZPMT1504-WM | SP..1204 | ST511-43<br>M5 |
| SMCC-6327060 | 63               | 27 | 60 | 34 | 4 | 2/6              |                             |          |                |
| SMCC-8032080 | 80               | 32 | 80 | 67 | 6 | 3/18             |                             |          |                |

## SECC



### - BORE MOUNTED TYPE

INSERT TYPE → [TAEGU-TEC](#), [SECO](#), [KORLOY](#), [WIDIN](#)

| Part No.    | 치수(Dimensions)mm |    |    |    |   | NO.OFF<br>INSERT |          |                  |       |
|-------------|------------------|----|----|----|---|------------------|----------|------------------|-------|
|             | D                | d  | L  | L1 |   |                  |          |                  |       |
| SECC-502255 | 50               | 22 | 55 | 42 | 3 | 9                | AP..1604 | ST4101-60W<br>M4 | TX-15 |
| SECC-632763 | 63               | 27 | 63 | 42 | 4 | 12               |          |                  |       |
| SECC-803285 | 80               | 32 | 85 | 70 | 5 | 25               |          |                  |       |

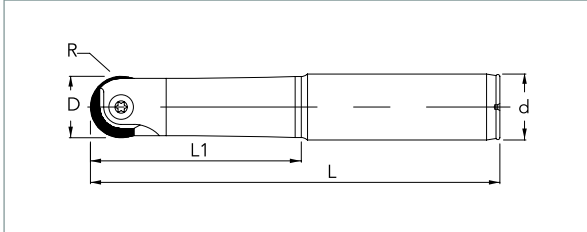
### - BORE MOUNTED TYPE

INSERT TYPE → [WALTER](#)

| Part No.      | 치수(Dimensions)mm |    |    |    |   | NO.OFF<br>INSERT |             |                  |       |
|---------------|------------------|----|----|----|---|------------------|-------------|------------------|-------|
|               | D                | d  | L  | L1 |   |                  |             |                  |       |
| SECC-502255-W | 50               | 22 | 55 | 42 | 3 | 9                | ADMT160608R | ST4101-60W<br>M4 | TX-15 |
| SECC-632763-W | 63               | 27 | 63 | 42 | 4 | 12               |             |                  |       |
| SECC-803285-W | 80               | 32 | 85 | 70 | 5 | 25               |             |                  |       |

# Ball Cutter Finishing

## BFCC

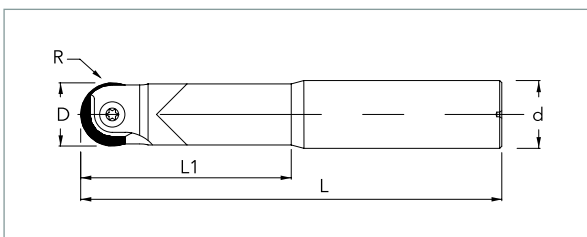


### - WELDON SHANK TYPE

INSERT TYPE → [WIDIN](#), [WALTER](#)

| Part No.      | 치수(Dimensions)mm |    |    |     |     |  |  |  |
|---------------|------------------|----|----|-----|-----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|               | R                | D  | d  | L   | L1  |                                                                                    |                                                                                     |                                                                                     |
| BFCC-R0612150 | 6                | 12 | 12 | 150 | 35  | P32..D12                                                                           | FS-391                                                                              | TX-15                                                                               |
| BFCC-R0612180 | 6                | 12 | 12 | 180 | 35  |                                                                                    |                                                                                     |                                                                                     |
| BFCC-R0816160 | 8                | 16 | 16 | 160 | 50  |                                                                                    |                                                                                     |                                                                                     |
| BFCC-R0816200 | 8                | 16 | 16 | 200 | 50  | P32..D16                                                                           | FS-392                                                                              | TX-15                                                                               |
| BFCC-R1020200 | 10               | 20 | 20 | 200 | 70  |                                                                                    |                                                                                     |                                                                                     |
| BFCC-R1020250 | 10               | 20 | 20 | 250 | 70  |                                                                                    |                                                                                     |                                                                                     |
| BFCC-R1225200 | 12.5             | 25 | 25 | 200 | 80  | P32..D25                                                                           | FS-394                                                                              | TX-20                                                                               |
| BFCC-R1225250 | 12.5             | 25 | 25 | 250 | 80  |                                                                                    |                                                                                     |                                                                                     |
| BFCC-R1532200 | 15               | 30 | 32 | 200 | 100 |                                                                                    |                                                                                     |                                                                                     |
| BFCC-R1532250 | 15               | 30 | 32 | 250 | 100 | P32..D30                                                                           | FS-395                                                                              | TX-30                                                                               |
| BFCC-R1532300 | 15               | 30 | 32 | 300 | 100 |                                                                                    |                                                                                     |                                                                                     |

## C-BFCC



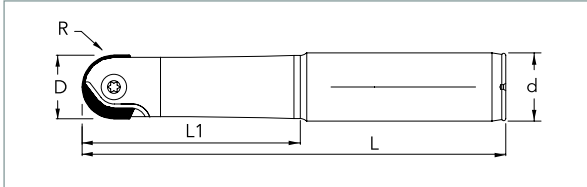
### - CARBIDE SHANK TYPE

INSERT TYPE → [WIDIN](#), [WALTER](#)

| Part No.        | 치수(Dimensions)mm |    |    |     |     |  |  |  |
|-----------------|------------------|----|----|-----|-----|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                 | R                | D  | d  | L   | L1  |                                                                                      |                                                                                       |                                                                                       |
| C-BFCC-R0510150 | 5                | 10 | 10 | 150 | 25  | P32..D10                                                                             | FS-90                                                                                 | TX-15                                                                                 |
| C-BFCC-R0612165 | 6                | 12 | 12 | 165 | 35  | P32..D12                                                                             | FS-391                                                                                |                                                                                       |
| C-BFCC-R0612200 | 6                | 12 | 12 | 200 | 35  | SP3204 D12                                                                           |                                                                                       |                                                                                       |
| C-BFCC-R0816200 | 8                | 16 | 16 | 200 | 50  | P32..D16                                                                             | FS-392                                                                                |                                                                                       |
| C-BFCC-R0816250 | 8                | 16 | 16 | 250 | 50  | SP3204 D16                                                                           |                                                                                       |                                                                                       |
| C-BFCC-R1020220 | 10               | 20 | 20 | 220 | 70  | P32..D20                                                                             | FS-393                                                                                | TX-20                                                                                 |
| C-BFCC-R1020300 | 10               | 20 | 20 | 300 | 70  | SP3204 D20                                                                           |                                                                                       |                                                                                       |
| C-BFCC-R1225200 | 12.5             | 25 | 25 | 200 | 80  | P32..D25<br>SP3204 D25                                                               | FS-394                                                                                |                                                                                       |
| C-BFCC-R1225250 | 12.5             | 25 | 25 | 250 | 80  |                                                                                      |                                                                                       |                                                                                       |
| C-BFCC-R1225300 | 12.5             | 25 | 25 | 300 | 80  |                                                                                      |                                                                                       |                                                                                       |
| C-BFCC-R1532250 | 15               | 30 | 32 | 250 | 100 | P32..D30                                                                             | FS-395                                                                                | TX-30                                                                                 |
| C-BFCC-R1532300 | 15               | 30 | 32 | 300 | 100 | SP3204 D30                                                                           |                                                                                       |                                                                                       |

# Ball Cutter Finishing

## ABPF

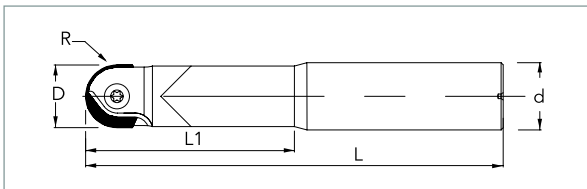


### - WELDON STEEL SHANK

INSERT TYPE → [HITACHI](#), [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |    |    |     |     |  |  |  |
|---------------|------------------|----|----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|               | R                | D  | d  | L   | L1  |                                                                                     |                                                                                     |                                                                                     |
| ABPF-R0816160 | 8                | 16 | 16 | 160 | 45  | ZPFG 160                                                                            | TSB-5844                                                                            | T-20                                                                                |
| ABPF-R0816200 | 8                | 16 | 16 | 200 | 45  |                                                                                     |                                                                                     |                                                                                     |
| ABPF-R1020200 | 10               | 20 | 20 | 200 | 70  | ZPFG 200                                                                            | TSB-5845                                                                            | T-25                                                                                |
| ABPF-R1020250 | 10               | 20 | 20 | 250 | 70  |                                                                                     |                                                                                     |                                                                                     |
| ABPF-R1225200 | 12,5             | 25 | 25 | 200 | 80  | ZPFG 250                                                                            | TSB-5846                                                                            | T-30                                                                                |
| ABPF-R1225250 | 12,5             | 25 | 25 | 250 | 80  |                                                                                     |                                                                                     |                                                                                     |
| ABPF-R1532200 | 15               | 30 | 32 | 200 | 100 | ZPFG 300                                                                            | TSB-5847                                                                            |                                                                                     |
| ABPF-R1532250 | 15               | 30 | 32 | 250 | 100 |                                                                                     |                                                                                     |                                                                                     |
| ABPF-R1532300 | 15               | 30 | 32 | 300 | 100 |                                                                                     |                                                                                     |                                                                                     |
| ABPF-R1532350 | 15               | 30 | 32 | 350 | 100 |                                                                                     |                                                                                     |                                                                                     |

## C-ABPF



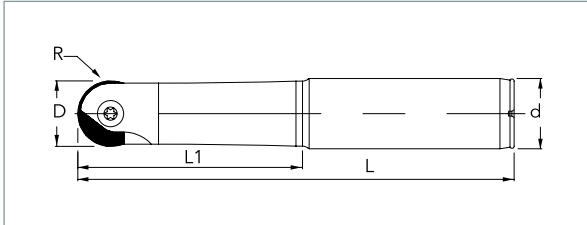
### - CARBIDE SHANK TYPE

INSERT TYPE → [HITACHI](#), [WIDIN](#)

| Part No.              | 치수(Dimensions)mm |    |    |     |     |  |  |  |
|-----------------------|------------------|----|----|-----|-----|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                       | R                | D  | d  | L   | L1  |                                                                                      |                                                                                       |                                                                                       |
| C-ABPF-08S08x25x135L  | 4                | 08 | 08 | 135 | 25  | ZPFG 080                                                                             | TSB-5841                                                                              | TX-10                                                                                 |
| C-ABPF-10S10x25x150L  | 5                | 10 | 10 | 150 | 25  | ZPFG 100                                                                             | TSB-5842                                                                              |                                                                                       |
| C-ABPF-10S10x25x180L  | 5                | 10 | 10 | 180 | 25  |                                                                                      |                                                                                       |                                                                                       |
| C-ABPF-10S10x25x200L  | 5                | 10 | 10 | 200 | 25  |                                                                                      |                                                                                       |                                                                                       |
| C-ABPF-12S12x35x165L  | 6                | 12 | 12 | 165 | 35  | ZPFG 120                                                                             | TSB-5843                                                                              | TX-20                                                                                 |
| C-ABPF-12S12x35x200L  | 6                | 12 | 12 | 200 | 35  | ZPFG 160                                                                             | TSB-5844                                                                              |                                                                                       |
| C-ABPF-16S16x50x200L  | 8                | 16 | 16 | 200 | 50  |                                                                                      |                                                                                       |                                                                                       |
| C-ABPF-16S16x50x250L  | 8                | 16 | 16 | 250 | 50  |                                                                                      |                                                                                       |                                                                                       |
| C-ABPF-20S20x70x220L  | 10               | 20 | 20 | 220 | 70  | ZPFG 200                                                                             | TSB-5845                                                                              | TX-25                                                                                 |
| C-ABPF-20S20x70x250L  | 10               | 20 | 20 | 250 | 70  |                                                                                      |                                                                                       |                                                                                       |
| C-ABPF-20S20x70x300L  | 10               | 20 | 20 | 300 | 70  |                                                                                      |                                                                                       |                                                                                       |
| C-ABPF-25S25x100x200L | 12.5             | 25 | 25 | 200 | 100 | ZPFG 250                                                                             | TSB-5846                                                                              |                                                                                       |
| C-ABPF-25S25x100x250L | 12.5             | 25 | 25 | 250 | 100 |                                                                                      |                                                                                       |                                                                                       |
| C-ABPF-25S25x100x300L | 12.5             | 25 | 25 | 300 | 100 |                                                                                      |                                                                                       |                                                                                       |
| C-ABPF-30S32x100x250L | 15               | 30 | 32 | 250 | 100 | ZPFG 300                                                                             | TSB-5847                                                                              |                                                                                       |
| C-ABPF-30S32x100x300L | 15               | 30 | 32 | 300 | 100 |                                                                                      |                                                                                       |                                                                                       |
| C-ABPF-30S32x100x350L | 15               | 30 | 32 | 350 | 100 |                                                                                      |                                                                                       |                                                                                       |
| C-ABPF-30S32x100x400L | 15               | 30 | 32 | 400 | 100 |                                                                                      |                                                                                       |                                                                                       |

# Ball Cutter Finishing

## SRFH

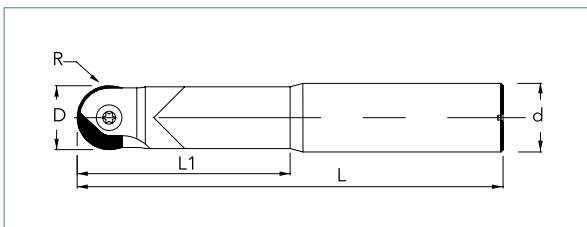


### - WELDON SHANK TYPE

INSERT TYPE → [DIJET](#), [MITSUBISHI](#), [KORLOY](#), [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |      |    |     |     |  |  |  |
|---------------|------------------|------|----|-----|-----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|               | D                | R    | d  | L   | L1  |                                                                                    |                                                                                     |                                                                                     |
| SRFH-R0816160 | 16               | 8    | 16 | 160 | 45  | SRFT 16<br>LBH 160~170                                                             | FSW-4013                                                                            | TX-15                                                                               |
| SRFH-R0816200 | 16               | 8    | 16 | 200 | 45  |                                                                                    |                                                                                     |                                                                                     |
| SRFH-R1020200 | 20               | 10   | 20 | 200 | 70  | SRFT 20<br>LBH 200~210                                                             | FSW-5016                                                                            | TX-20                                                                               |
| SRFH-R1020250 | 20               | 10   | 20 | 250 | 70  |                                                                                    |                                                                                     |                                                                                     |
| SRFH-R1225200 | 25               | 12.5 | 25 | 200 | 100 | SRFT 25<br>LBH 250~260                                                             | FSW-6020                                                                            | TX-30                                                                               |
| SRFH-R1225250 | 25               | 12.5 | 25 | 250 | 100 |                                                                                    |                                                                                     |                                                                                     |
| SRFH-R1532200 | 30               | 15   | 32 | 200 | 100 | SRFT 30<br>LBH 300~320                                                             | FSW-8025                                                                            | TX-40                                                                               |
| SRFH-R1532250 | 30               | 15   | 32 | 250 | 100 |                                                                                    |                                                                                     |                                                                                     |
| SRFH-R1532300 | 30               | 15   | 32 | 300 | 100 |                                                                                    |                                                                                     |                                                                                     |

## C-SRFH



### - CARBIDE SHANK TYPE

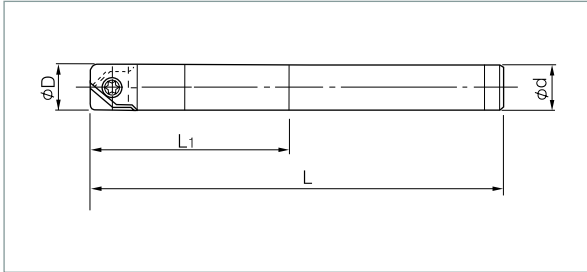
INSERT TYPE → [DIJET](#), [MITSUBISHI](#), [KORLOY](#), [WIDIN](#)

| Part No.        | 치수(Dimensions)mm |    |    |     |     |  |  |  |
|-----------------|------------------|----|----|-----|-----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                 | R                | D  | d  | L   | L1  |                                                                                     |                                                                                       |                                                                                       |
| C-SRFH-R0408135 | 4                | 08 | 08 | 135 | 25  | ZPFG 080<br>LBH 08                                                                  | FSW-2506                                                                              | TX-07                                                                                 |
| C-SRFH-R0510150 | 5                | 10 | 10 | 150 | 25  | ZPFG 100<br>LBH 10                                                                  | FSW-3007                                                                              | TX-08                                                                                 |
| C-SRFH-R0612165 | 6                | 12 | 12 | 165 | 35  | ZPFG 120<br>LBH 120~130                                                             | FSW-3509                                                                              | TX-10                                                                                 |
| C-SRFH-R0612200 | 6                | 12 | 12 | 200 | 35  |                                                                                     |                                                                                       |                                                                                       |
| C-SRFH-R0816200 | 8                | 16 | 16 | 200 | 50  | ZPFG 160<br>LBH 160~170                                                             | FSW-4013                                                                              | TX-15                                                                                 |
| C-SRFH-R0816250 | 8                | 16 | 16 | 250 | 50  |                                                                                     |                                                                                       |                                                                                       |
| C-SRFH-R1020220 | 10               | 20 | 20 | 220 | 70  | ZPFG 200<br>LBH 200~210                                                             | FSW-5016                                                                              | TX-20                                                                                 |
| C-SRFH-R1020250 | 10               | 20 | 20 | 250 | 70  |                                                                                     |                                                                                       |                                                                                       |
| C-SRFH-R1020300 | 10               | 20 | 20 | 300 | 70  |                                                                                     |                                                                                       |                                                                                       |
| C-SRFH-R1225200 | 12.5             | 25 | 25 | 200 | 100 | ZPFG 250<br>LBH 250~260                                                             | FSW-6020                                                                              | TX-30                                                                                 |
| C-SRFH-R1225250 | 12.5             | 25 | 25 | 250 | 100 |                                                                                     |                                                                                       |                                                                                       |
| C-SRFH-R1225300 | 12.5             | 25 | 25 | 300 | 100 |                                                                                     |                                                                                       |                                                                                       |
| C-SRFH-R1532250 | 15               | 30 | 32 | 250 | 100 | ZPFG 300<br>LBH 300~320                                                             | FSW-8025                                                                              | TX-40                                                                                 |
| C-SRFH-R1532300 | 15               | 30 | 32 | 300 | 100 |                                                                                     |                                                                                       |                                                                                       |



# Ball Cutter Finishing

## C-RMMC



### - CARBIDE SHANK TYPE

INSERT TYPE → [DIJET](#), [MITSUBISHI](#), [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |    |     |    |  |  |  |
|----------------|------------------|----|-----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                | D                | d  | L   | L1 |                                                                                   |                                                                                     |                                                                                     |
| C-RMMC-1212165 | 12               | 12 | 165 | 35 | RMMC-120<br>LRH-120~130                                                           | FSW-3509                                                                            | TX-10                                                                               |
| C-RMMC-1212200 | 12               | 12 | 200 | 35 |                                                                                   |                                                                                     |                                                                                     |
| C-RMMC-1616160 | 16               | 16 | 160 | 40 | RMMC-160<br>LRH-160~170                                                           | FSW-4013                                                                            | TX-15                                                                               |
| C-RMMC-1616200 | 16               | 16 | 200 | 40 |                                                                                   |                                                                                     |                                                                                     |
| C-RMMC-2020200 | 20               | 20 | 200 | 45 | RMMC-200<br>LRH-200~210                                                           | FSW-5016                                                                            | TX-20                                                                               |
| C-RMMC-2020250 | 20               | 20 | 250 | 45 |                                                                                   |                                                                                     |                                                                                     |
| C-RMMC-2525200 | 25               | 25 | 200 | 50 | RMMC-250<br>LRH-250~260                                                           | FSW-6020                                                                            | TX-30                                                                               |
| C-RMMC-2525250 | 25               | 25 | 250 | 50 |                                                                                   |                                                                                     |                                                                                     |
| C-RMMC-3032200 | 30               | 32 | 200 | 50 | RMMC-300<br>LRH-300                                                               | FSW-8025                                                                            | TX-40                                                                               |
| C-RMMC-3032250 | 30               | 32 | 250 | 50 |                                                                                   |                                                                                     |                                                                                     |
| C-RMMC-3032300 | 30               | 32 | 300 | 50 | RMMC-320<br>LRH-320~330                                                           | FSW-8025                                                                            | TX-40                                                                               |
| C-RMMC-3232200 | 32               | 32 | 200 | 50 |                                                                                   |                                                                                     |                                                                                     |
| C-RMMC-3232250 | 32               | 32 | 250 | 50 |                                                                                   |                                                                                     |                                                                                     |
| C-RMMC-3232300 | 32               | 32 | 300 | 50 |                                                                                   |                                                                                     |                                                                                     |

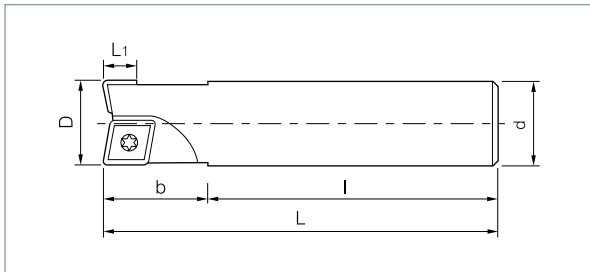
### - WELDON SHANK TYPE

INSERT TYPE → [DIJET](#), [MITSUBISHI](#), [WIDIN](#)

| Part No.     | 치수(Dimensions)mm |    |     |    |  |  |  |
|--------------|------------------|----|-----|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|              | D                | d  | L   | L1 |                                                                                     |                                                                                       |                                                                                       |
| RMMC-1212165 | 12               | 12 | 150 | 35 | RNM-120<br>LRH-120~130                                                              | FSW-3509                                                                              | TX-10                                                                                 |
| RMMC-1212200 | 12               | 12 | 180 | 35 |                                                                                     |                                                                                       |                                                                                       |
| RMMC-1616160 | 16               | 16 | 160 | 40 | RNM-160<br>LRH-160~170                                                              | FSW-4013                                                                              | TX-15                                                                                 |
| RMMC-1616200 | 16               | 16 | 200 | 40 |                                                                                     |                                                                                       |                                                                                       |
| RMMC-2020200 | 20               | 20 | 200 | 45 | RNM-200<br>LRH-200~210                                                              | FSW-5016                                                                              | TX-20                                                                                 |
| RMMC-2020250 | 20               | 20 | 250 | 45 |                                                                                     |                                                                                       |                                                                                       |
| RMMC-2525200 | 25               | 25 | 200 | 50 | RNM-250<br>LRH-250~260                                                              | FSW-6020                                                                              | TX-30                                                                                 |
| RMMC-2525250 | 25               | 25 | 250 | 50 |                                                                                     |                                                                                       |                                                                                       |
| RMMC-3032200 | 30               | 32 | 200 | 50 | RNM-300<br>LRH-300                                                                  | FSW-8025                                                                              | TX-40                                                                                 |
| RMMC-3032250 | 30               | 32 | 250 | 50 |                                                                                     |                                                                                       |                                                                                       |
| RMMC-3032300 | 30               | 32 | 300 | 50 |                                                                                     |                                                                                       |                                                                                       |
| RMMC-3232200 | 32               | 32 | 200 | 50 | RNM-320<br>LRH-320~330                                                              | FSW-8025                                                                              | TX-40                                                                                 |
| RMMC-3232250 | 32               | 32 | 250 | 50 |                                                                                     |                                                                                       |                                                                                       |
| RMMC-3232300 | 32               | 32 | 300 | 50 |                                                                                     |                                                                                       |                                                                                       |

# Multi Mill Cutter

## AJUL

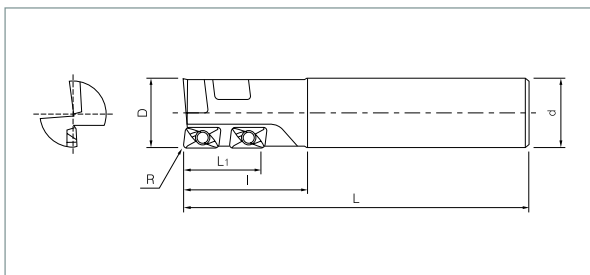


### - WELDON SHANK TYPE

INSERT TYPE → [HITACHI](#)

| ITEM CODE    | NO.OFF INSERTS | 치수(Dimensions)mm |     |    |    |    |     | INSERTS SED                                        |
|--------------|----------------|------------------|-----|----|----|----|-----|----------------------------------------------------|
|              |                | D                | L   | d  | L1 | b  | l   |                                                    |
| AJUL-1616175 | 2              | 16               | 175 | 16 | 6  | 40 | 135 | CCMT06204, CPMT080204Z                             |
| AJUL-2020185 | 2              | 20               | 185 | 20 | 6  | 50 | 135 | CPMT06204, CPMT090204Z                             |
| AJUL-2525220 | 2              | 25               | 220 | 25 | 9  | 70 | 150 | CPMT090308, CPMT120308Z                            |
| AJUL-3232230 | 2              | 32               | 230 | 32 | 12 | 80 | 150 | CPMT120408, 120430 CPMT160408, 160430Z             |
| AJUL-4032240 | 2              | 40               | 240 | 32 | 15 | 50 | 190 | CPMT160408Z, 160430Z CPMT190408Z, 190430Z          |
| AJUL-5042250 | 2(3)           | 50               | 250 | 42 | 12 | 50 | 200 | CPMT090308 CPMT120408, 120430 CPMT160408Z, 160430Z |

## AJSL



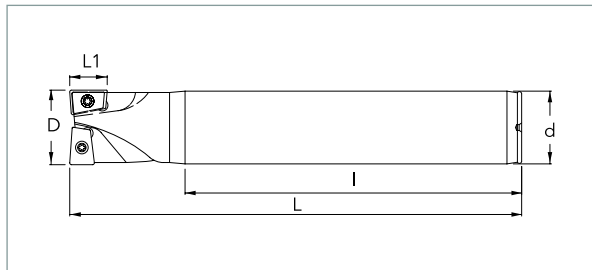
### - WELDON SHANK TYPE

INSERT TYPE → [HITACHI](#)

| ITEM CODE  |              | NO.OFF INSERTS |           | 치수(Dimensions)m |     |    |    |    | INSERTS USED NOTE |              |
|------------|--------------|----------------|-----------|-----------------|-----|----|----|----|-------------------|--------------|
|            |              | END            | PERIPHERY | D               | L   | L1 | l  | d  | ON END            | ON PERIPHERY |
| Long Shank | AJSL-16R 175 | 1              | 3         | 16              | 175 | 16 | 50 | 16 | ADMT080308L       | APMT090208R  |
|            | AJSL-17R 175 |                |           | 17              | 175 | 16 | 30 | 16 |                   |              |
|            | AJSL-20R 185 |                |           | 20              | 185 | 20 | 60 | 20 | ADMT1003○○L       | ACMT1003○○R  |
|            | AJSL-21R 185 |                |           | 21              | 185 | 20 | 35 | 20 |                   |              |
|            | AJSL-25R 220 |                |           | 25              | 220 | 25 | 75 | 25 | ADMT12T3○○L       | APMT12T3○○R  |
|            | AJSL-26R 220 |                |           | 26              | 220 | 25 | 40 | 25 |                   |              |
|            | AJSL-32R 230 |                |           | 32              | 230 | 32 | 90 | 32 | APMT1604○○L       | APMT1504○○R  |
|            | AJSL-33R 230 |                |           | 33              | 230 | 32 | 50 | 32 |                   |              |
|            | AJSL-35R 230 |                |           | 35              | 230 | 35 | 50 | 32 | APMT1704○○L       |              |
|            | AJSL-40R 240 |                | 4         | 40              | 240 | 40 | 55 | 32 | APMT1905○○L       |              |
|            | AJSL-50R 250 |                | 6         | 50              | 250 | 50 | 70 | 42 | APMT2505○○L       |              |

# Finishing EndMill Cutter

## AQXC



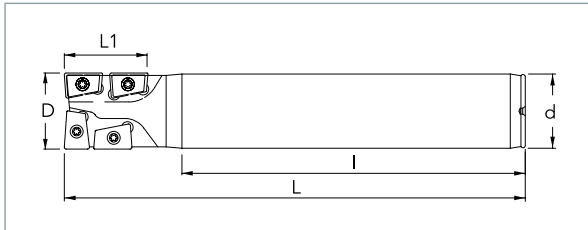
### - WELDON SHANK TYPE

INSERT TYPE → [WIDIN](#)

| Part No.        | 치수(Dimensions)mm |    |      |     |     |  |  |  |  |
|-----------------|------------------|----|------|-----|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                 | D                | d  | L1   | L   | I   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-1616200-2F | 12               | 16 | 7.4  | 200 | 150 | 2                                                                                 | QOMT0830R                                                                         | ST2043-60H                                                                          | TX-6                                                                                |
| AQXC-1716200-2F | 17               | 16 | 7.4  | 200 | 170 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-2020200-2F | 20               | 20 | 9.2  | 200 | 145 |                                                                                   | QOMT1035R                                                                         | ST2553-55 M2.5                                                                      | TX-8                                                                                |
| AQXC-2120200-2F | 21               | 20 | 9.2  | 200 | 160 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-2120250-2F | 21               | 20 | 9.2  | 250 | 210 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-2120300-2F | 21               | 20 | 9.2  | 300 | 260 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-2525200-2F | 25               | 25 | 11.5 | 200 | 135 |                                                                                   | QOMT1342R                                                                         | ST3072-60H M3                                                                       |                                                                                     |
| AQXC-2525250-2F | 25               | 25 | 11.5 | 250 | 185 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-2625200-2F | 26               | 25 | 11.5 | 200 | 160 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-2625250-2F | 26               | 25 | 11.5 | 250 | 210 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-2625300-2F | 26               | 25 | 11.5 | 300 | 260 |                                                                                   | QOMT1651R                                                                         | ST4084-60 M4                                                                        | TX-15                                                                               |
| AQXC-3232200-2F | 32               | 32 | 14.5 | 200 | 100 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-3232250-2F | 32               | 32 | 14.5 | 250 | 160 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-3332200-2F | 33               | 32 | 14.5 | 200 | 150 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-3332250-2F | 33               | 32 | 14.5 | 250 | 200 |                                                                                   | QOMT2062R                                                                         | ST511-60H                                                                           | TX-25                                                                               |
| AQXC-3332300-2F | 33               | 32 | 14.5 | 300 | 250 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-4032200-2F | 40               | 32 | 18   | 200 | 130 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-4032250-2F | 40               | 32 | 18   | 250 | 180 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |

# Finishing EndMill Cutter

## AQXC

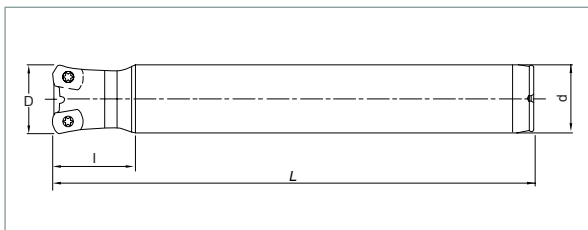


### - WELDON SHANK TYPE

INSERT TYPE → [WIDIN](#)

| Part No.        | 치수(Dimensions)mm |    |      |     |     |  |  |  |  |
|-----------------|------------------|----|------|-----|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                 | D                | d  | L1   | L   | l   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-1616200-4F | 16               | 16 | 17.6 | 200 | 150 | 2                                                                                 | QOMT0830R                                                                         | ST2043-60H<br>M2                                                                    | TX-6                                                                                |
| AQXC-1716200-4F | 17               | 16 | 17.6 | 200 | 170 |                                                                                   | QOMT1035R                                                                         | ST2553-55<br>M2.5                                                                   | TX-8                                                                                |
| AQXC-2020200-4F | 20               | 20 | 22   | 200 | 145 |                                                                                   | QOMT1342R                                                                         | ST3072-60H<br>M3                                                                    |                                                                                     |
| AQXC-2120200-4F | 21               | 20 | 22   | 200 | 160 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-2525200-4F | 25               | 25 | 27.5 | 200 | 135 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-2525250-4F | 25               | 25 | 27.5 | 250 | 185 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-2625200-4F | 26               | 25 | 27.5 | 200 | 160 |                                                                                   | QOMT1651R                                                                         | ST4084-60<br>M4                                                                     | TX-15                                                                               |
| AQXC-2625250-4F | 26               | 25 | 27.5 | 250 | 210 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-3232200-4F | 32               | 32 | 35.2 | 200 | 110 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-3232250-4F | 32               | 32 | 35.2 | 250 | 160 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-3332200-4F | 33               | 32 | 35.2 | 200 | 150 |                                                                                   | QOMT2062R                                                                         | ST511-60H                                                                           | TX-25                                                                               |
| AQXC-3332250-4F | 33               | 32 | 35.2 | 250 | 200 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-4032200-4F | 40               | 32 | 44   | 200 | 130 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| AQXC-4032250-4F | 40               | 32 | 44   | 250 | 180 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |

## TEBL



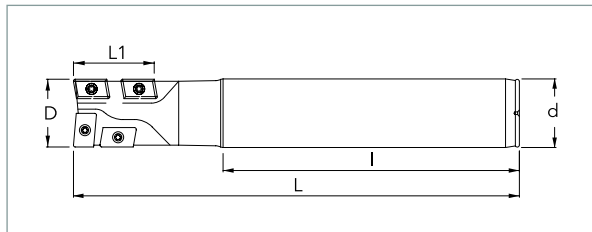
### - WELDON SHANK TYPE

INSERT TYPE → [TAEGU-TEC](#)

| Part No.         | 치수(Dimensions)mm |    |     |     |  |  |  |  |   |
|------------------|------------------|----|-----|-----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|
|                  | D                | d  | L   | l   |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D16x2Fx150L | 16               | 16 | 150 | 110 | 2                                                                                   | BLMP 0603R                                                                           | ST2553-55<br>M2.5                                                                     | TX-8                                                                                  |   |
| TEBL-D16x2Fx200L |                  |    | 200 | 160 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D17x2Fx150L | 17               |    | 150 | 120 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D17x2Fx200L |                  |    | 200 | 170 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D20x3Fx150L | 20               | 20 | 150 | 110 | 3                                                                                   |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D20x3Fx200L |                  |    | 200 | 160 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D21x3Fx150L | 21               |    | 150 | 120 |                                                                                     |                                                                                      |                                                                                       |                                                                                       | 4 |
| TEBL-D21x3Fx200L |                  |    | 200 | 170 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D25x4Fx200L | 25               | 25 | 200 | 160 | 5                                                                                   |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D25x4Fx250L |                  |    | 250 | 210 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D26x4Fx200L | 26               |    | 200 | 170 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D26x4Fx250L |                  |    | 250 | 220 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D32x5Fx200L | 32               | 32 | 200 | 160 | 6                                                                                   |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D32x5Fx250L |                  |    | 250 | 210 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D33x5Fx200L | 33               |    | 200 | 170 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |
| TEBL-D33x5Fx250L |                  |    | 250 | 220 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |   |

# Finishing EndMill Cutter

## SECL

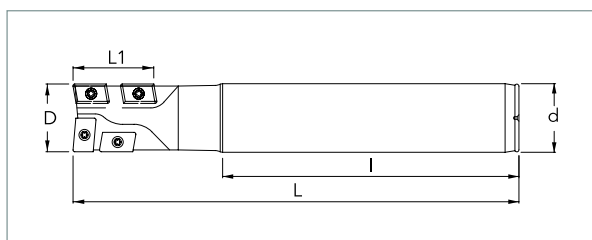


### - WELDON SHANK TYPE

INSERT TYPE → **DIJET**

| Part No.     | 치수(Dimensions)mm |    |     |    |     | NO.OFF<br>INSERT | 외경용<br> | NO.OFF<br>INSERT | 내경용<br> |  |  |  |  |
|--------------|------------------|----|-----|----|-----|------------------|------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|
|              | D                | d  | L   | L1 | I   |                  |                                                                                          |                  |                                                                                            |                                                                                     |                                                                                     |  |  |
| SECL-1616200 | 16               | 16 | 200 | 16 | 150 | 1                | ZDMT 08T208L                                                                             | 3                | ZPMT 09T208R                                                                               | ST22045-55 M2,2                                                                     | TX-6                                                                                |  |  |
| SECL-1716200 | 17               | 16 | 200 | 16 | 160 |                  | ZDMT 100308L                                                                             |                  | ZCMT 100308R                                                                               | ST2553-55 M2,5                                                                      | TX-8                                                                                |  |  |
| SECL-2020200 | 20               | 20 | 200 | 21 | 140 |                  | ZDMT 13T308L                                                                             |                  | ZPMT 13T308R                                                                               | ST3070-60H M3                                                                       |                                                                                     |  |  |
| SECL-2120200 | 21               | 20 | 200 | 21 | 160 |                  |                                                                                          |                  |                                                                                            |                                                                                     |                                                                                     |  |  |
| SECL-2525200 | 25               | 25 | 200 | 27 | 125 |                  |                                                                                          |                  |                                                                                            |                                                                                     |                                                                                     |  |  |
| SECL-2525250 | 25               | 25 | 250 | 27 | 175 |                  | ZDMT 160408L                                                                             |                  | ZPMT 160408R                                                                               | ST4084-60 M4                                                                        | TX-15                                                                               |  |  |
| SECL-2625200 | 26               | 25 | 200 | 27 | 160 |                  |                                                                                          |                  |                                                                                            |                                                                                     |                                                                                     |  |  |
| SECL-2625250 | 26               | 25 | 250 | 27 | 210 |                  |                                                                                          |                  |                                                                                            |                                                                                     |                                                                                     |  |  |
| SECL-3232200 | 32               | 32 | 200 | 35 | 110 |                  |                                                                                          |                  |                                                                                            |                                                                                     |                                                                                     |  |  |
| SECL-3232250 | 32               | 32 | 250 | 35 | 160 |                  |                                                                                          |                  |                                                                                            |                                                                                     |                                                                                     |  |  |
| SECL-3232300 | 32               | 32 | 300 | 35 | 210 |                  |                                                                                          |                  |                                                                                            |                                                                                     |                                                                                     |  |  |
| SECL-3332200 | 33               | 32 | 200 | 35 | 150 |                  |                                                                                          |                  |                                                                                            |                                                                                     |                                                                                     |  |  |
| SECL-3332250 | 33               | 32 | 250 | 35 | 200 |                  |                                                                                          |                  |                                                                                            |                                                                                     |                                                                                     |  |  |
| SECL-3332300 | 33               | 32 | 300 | 35 | 250 |                  |                                                                                          |                  |                                                                                            |                                                                                     |                                                                                     |  |  |

## AHJL



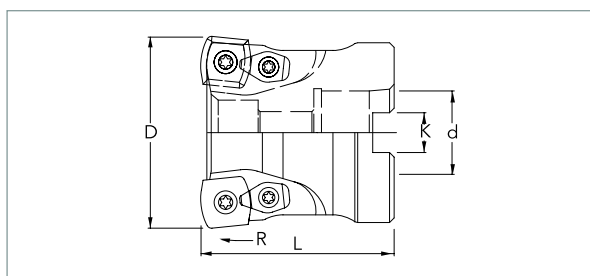
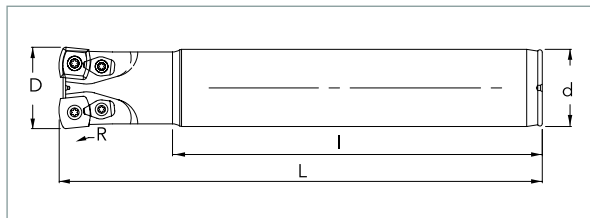
### - WELDON SHANK TYPE

INSERT TYPE → **HITACHI**

| Part No.        | 치수(Dimensions)mm |    |     |    |     |  |  |  |  |
|-----------------|------------------|----|-----|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                 | D                | d  | L   | L1 | I   |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| AHJL-16R 175-4F | 16               | 16 | 175 | 19 | 130 | 4                                                                                   | JDMT08038L                                                                          | TX-6                                                                                  | ST2043-60H M2                                                                         |
| AHJL-17R 175-4F | 17               | 16 | 175 | 19 | 138 |                                                                                     | JDMT09038R                                                                          |                                                                                       |                                                                                       |
| AHJL-20R 185-4F | 20               | 20 | 185 | 23 | 135 |                                                                                     | JDMT10038L                                                                          | TX-8                                                                                  | ST2553-55 M2.5                                                                        |
| AHJL-21R 185-4F | 21               | 20 | 185 | 23 | 145 |                                                                                     | JDMT10038R                                                                          |                                                                                       |                                                                                       |
| AHJL-25R 220-4F | 25               | 25 | 220 | 29 | 165 |                                                                                     | JDMT12T308L                                                                         | TX-8                                                                                  | ST3072-60H M3                                                                         |
| AHJL-26R 220-4F | 26               | 25 | 220 | 29 | 170 |                                                                                     | JDMT12T308R                                                                         |                                                                                       |                                                                                       |
| AHJL-32R 230-4F | 32               | 32 | 230 | 34 | 160 |                                                                                     | JDMT160508L                                                                         | TX-15                                                                                 | ST4084-60 M4                                                                          |
| AHJL-33R 230-4F | 33               | 32 | 230 | 34 | 175 |                                                                                     | JDMT150508R                                                                         |                                                                                       |                                                                                       |

# Finishing EndMill Cutter

## ASRL



### - WELDON SHANK TYPE

INSERT TYPE → [HITACHI](#), [WIDIN](#)

| Part No.     | 치수(Dimensions)mm |     |    |        |     |  |  |  |  |  |
|--------------|------------------|-----|----|--------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|              | D                | L   | d  | R      | I   |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-2020200 | 20               | 200 | 20 | 10     | 150 | 2                                                                                   | EP.W0803TN-10                                                                       | ST3509-55 M3.5                                                                        | TX-15                                                                                 | CL2C 2CLCN                                                                            |
| ASRL-2120200 | 21               | 200 | 20 | 10     | 150 | 2                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-2525200 | 25               | 200 | 25 | 10     | 140 | 2                                                                                   | ED.W10T3TN-10                                                                       | ST408-43 M4                                                                           |                                                                                       |                                                                                       |
| ASRL-2525250 | 25               | 250 | 25 | 10     | 190 | 2                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-2625200 | 26               | 200 | 25 | 10     | 160 | 2                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-2625250 | 26               | 250 | 25 | 10     | 210 | 2                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-3232200 | 32               | 200 | 32 | 15(10) | 130 | 2                                                                                   | ED.W13T4TN-15(10)                                                                   | ST512-63P M5                                                                          | TX-20                                                                                 | 3CLCN                                                                                 |
| ASRL-3232250 | 32               | 250 | 32 | 15(10) | 180 | 2                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-3332200 | 33               | 200 | 32 | 15(10) | 150 | 2                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-3332250 | 33               | 250 | 32 | 15(10) | 200 | 2                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-3532200 | 35               | 200 | 32 | 15(10) | 150 | 2                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-3532250 | 35               | 250 | 32 | 15(10) | 200 | 2                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-4032200 | 40               | 200 | 32 | 15(10) | 150 | 3                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-4032250 | 40               | 250 | 32 | 15(10) | 200 | 3                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-5042200 | 50               | 200 | 42 | 15     | 150 | 3                                                                                   | ED.W15T4TN-15                                                                       |                                                                                       |                                                                                       |                                                                                       |
| ASRL-5042250 | 50               | 250 | 42 | 15     | 200 | 3                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |

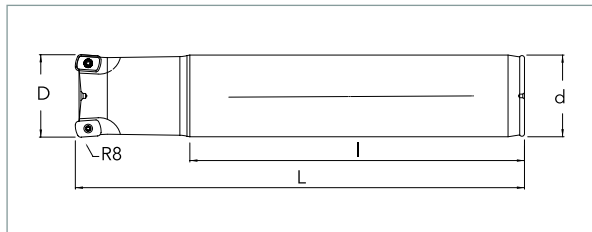
### - BORE MOUNTED TYPE

INSERT TYPE → [HITACHI](#), [WIDIN](#)

| Part No.        | 치수(Dimensions)mm |    |       |      |        |  |  |  |  |  |
|-----------------|------------------|----|-------|------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                 | D                | L  | d     | K    | R      |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-505022     | 50               | 50 | 22    | 10.4 | 15(10) | 3                                                                                   | ED.W13T4TN-15                                                                       | 555-141<br>M5 ST512-63P                                                               | TX-20                                                                                 | 3CLCN                                                                                 |
| ASRL-605022     | 60               | 50 | 22    | 10.4 | 15(10) | 4                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-635022     | 63               | 50 | 22    | 10.4 | 15(10) | 4                                                                                   | ED.W15T4TN-15                                                                       |                                                                                       |                                                                                       |                                                                                       |
| ASRL-807027     | 80               | 70 | 27    | 12.7 | 15(10) | 5                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| ASRL-1007031.75 | 100              | 70 | 31.75 | 12.7 | 15(10) | 6                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |

# Finishing EndMill Cutter

## ASRL-Pico

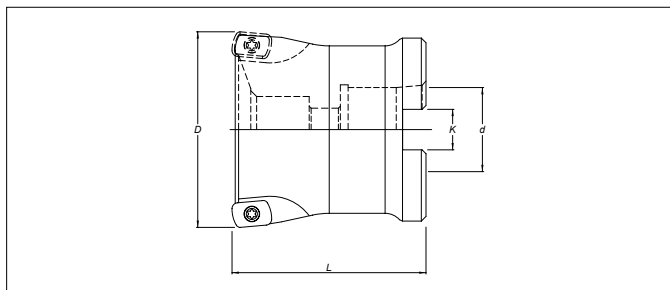


### - WELDON SHANK TYPE

INSERT TYPE → [HITACHI](#), [WIDIN](#)

| Part No.        | 치수(Dimensions)mm |    |     |     |   |  |  |  |
|-----------------|------------------|----|-----|-----|---|--|--|--|
|                 | D                | d  | L   | l   |   |  |  |  |
| ASRL-1616160-2F | 16               | 16 | 160 | 120 | 2 |  |  |  |
| ASRL-1716160-2F | 17               | 16 | 160 | 130 | 2 |  |  |  |
| ASRL-1716200-2F | 17               | 16 | 200 | 170 | 2 |  |  |  |
| ASRL-2020200-3F | 20               | 20 | 200 | 160 | 3 |  |  |  |
| ASRL-2120200-3F | 21               | 20 | 200 | 170 | 3 |  |  |  |
| ASRL-2525200-4F | 25               | 25 | 200 | 150 | 4 |  |  |  |
| ASRL-2525250-4F | 25               | 25 | 250 | 200 | 4 |  |  |  |
| ASRL-2625200-4F | 26               | 25 | 200 | 160 | 4 |  |  |  |
| ASRL-2625250-4F | 26               | 25 | 250 | 210 | 4 |  |  |  |
| ASRL-3232200-5F | 32               | 32 | 200 | 135 | 5 |  |  |  |
| ASRL-3232250-5F | 32               | 32 | 250 | 185 | 5 |  |  |  |
| ASRL-3332200-5F | 33               | 32 | 200 | 160 | 5 |  |  |  |
| ASRL-3332250-5F | 32               | 32 | 250 | 210 | 5 |  |  |  |

## ASRL-Pico



### - BORE MOUNTED TYPE

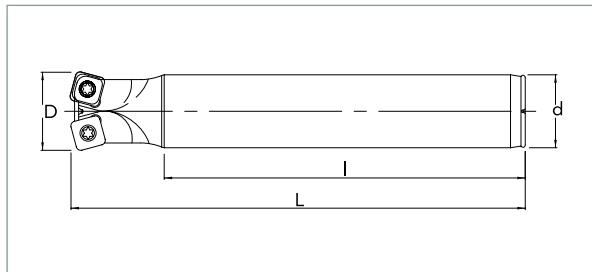
INSERT TYPE → [KORLOY](#), [WIDIN](#)

| Part No.        | 치수(Dimensions)mm |    |    |      |    |  |  |  |
|-----------------|------------------|----|----|------|----|--|--|--|
|                 | D                | d  | L  | K    |    |  |  |  |
| ASRL-D42x16x6F  | 42               | 16 | 40 | 10.4 | 6  |  |  |  |
| ASRL-D50x22x7F  | 50               | 22 | 50 | 10.4 | 7  |  |  |  |
| ASRL-D52x22x7F  | 52               | 22 | 50 | 10.4 | 7  |  |  |  |
| ASRL-D63x27x8F  | 63               | 27 | 50 | 12.7 | 8  |  |  |  |
| ASRL-D66x27x8F  | 66               | 27 | 50 | 12.7 | 8  |  |  |  |
| ASRL-D80x27x10F | 80               | 27 | 65 | 12.7 | 10 |  |  |  |



# Finishing EndMill Cutter

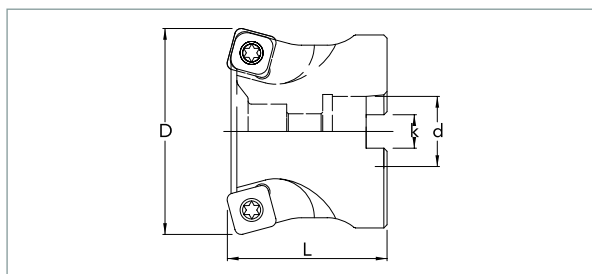
## BSR



### - WELDON SHANK TYPE

INSERT TYPE → [KORLOY](#), [WIDIN](#)

| Part No.    | 치수(Dimensions)mm |    |     |     |   |               |                 |       |
|-------------|------------------|----|-----|-----|---|---------------|-----------------|-------|
|             | D                | d  | L   | l   |   |               |                 |       |
| BSR-2020200 | 20               | 20 | 200 | 150 | 2 | SPCW 070312R  | ST307-55 M3.0   | TX-08 |
| BSR-2020250 | 20               | 20 | 250 | 200 | 2 |               |                 |       |
| BSR-2120200 | 21               | 20 | 200 | 160 | 2 |               |                 |       |
| BSR-2120250 | 21               | 20 | 250 | 210 | 2 |               |                 |       |
| BSR-2525200 | 25               | 25 | 200 | 140 | 2 | SDCW 090412R  | ST35084-60 M3.5 | TX-15 |
| BSR-2525250 | 25               | 25 | 250 | 190 | 2 |               |                 |       |
| BSR-2525300 | 25               | 25 | 300 | 240 | 2 |               |                 |       |
| BSR-2625200 | 26               | 25 | 200 | 160 | 2 |               |                 |       |
| BSR-2625250 | 26               | 25 | 250 | 210 | 2 |               |                 |       |
| BSR-2625300 | 26               | 25 | 300 | 260 | 2 |               |                 |       |
| BSR-3232200 | 32               | 32 | 200 | 130 | 2 | SBCW 130723SR | TSB 263141 M5   | TX-20 |
| BSR-3232250 | 32               | 32 | 250 | 180 | 2 |               |                 |       |
| BSR-3232300 | 32               | 32 | 300 | 230 | 2 |               |                 |       |
| BSR-3332200 | 33               | 32 | 200 | 160 | 2 |               |                 |       |
| BSR-3332250 | 33               | 32 | 250 | 210 | 2 |               |                 |       |
| BSR-3332300 | 33               | 32 | 300 | 260 | 2 |               |                 |       |
| BSR-4032200 | 40               | 32 | 200 | 160 | 3 |               |                 |       |
| BSR-4032250 | 40               | 32 | 250 | 210 | 3 |               |                 |       |
| BSR-4032300 | 40               | 32 | 300 | 260 | 3 |               |                 |       |



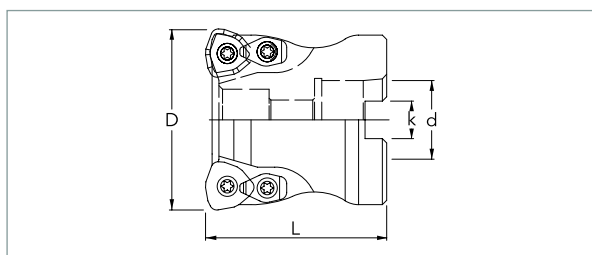
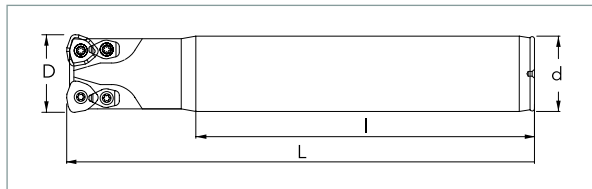
### - BORE MOUNTED TYPE

INSERT TYPE → [KORLOY](#), [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |    |    |      |   |               |              |       |
|---------------|------------------|----|----|------|---|---------------|--------------|-------|
|               | D                | d  | L  | K    |   |               |              |       |
| BSR-D50×22×3F | 50               | 22 | 50 | 10.4 | 3 | SBCW 130723SR | TSB263141 M5 | TX-20 |
| BSR-D63×22×4F | 63               | 22 | 50 | 10.4 | 4 |               |              |       |
| BSR-D80×27×5F | 80               | 27 | 65 | 12.4 | 5 |               |              |       |

# Finishing EndMill Cutter

## AJXC



### - WELDON SHANK TYPE

INSERT TYPE → [MITSUBISHI](#), [WIDIN](#)

| Part No.     | 치수(Dimensions)mm |    |     |     |  |  |  |  |  |
|--------------|------------------|----|-----|-----|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|              | D                | d  | L   | l   |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-1616180 | 16               | 16 | 180 | 145 | 2                                                                                  | JOMW06T                                                                            | ST2553-55 M2.5                                                                      |                                                                                      | TX-8                                                                                 |
| AJXC-1716180 | 17               | 16 | 180 | 145 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-2020200 | 20               | 20 | 200 | 150 |                                                                                    | JOMW080                                                                            | ST3072-60H M3                                                                       |                                                                                      | TX-8                                                                                 |
| AJXC-2120200 | 21               | 20 | 200 | 155 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-2120250 | 21               | 20 | 250 | 205 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-2525200 | 25               | 25 | 200 | 145 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-2525250 | 25               | 25 | 250 | 195 |                                                                                    | JDMW09T                                                                            | ST3509-55 M3.5                                                                      |                                                                                      | TX-15                                                                                |
| AJXC-2625200 | 26               | 25 | 200 | 155 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-2625250 | 26               | 25 | 250 | 205 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-3232200 | 32               | 32 | 200 | 145 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-3232250 | 32               | 32 | 250 | 195 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-3232300 | 32               | 32 | 300 | 245 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-3332200 | 33               | 32 | 200 | 150 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-3332250 | 33               | 32 | 250 | 200 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| AJXC-3332300 | 33               | 32 | 300 | 250 |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |

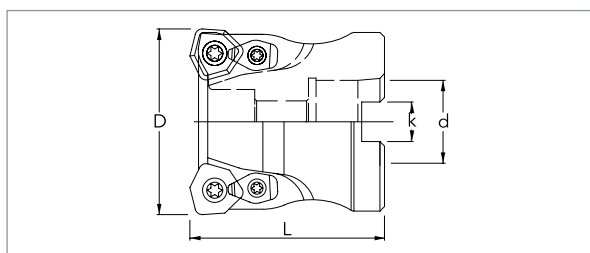
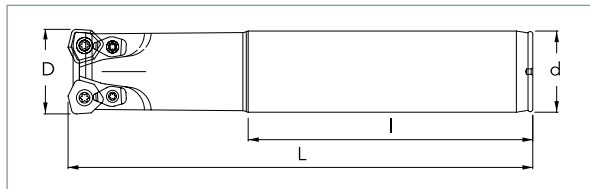
### - BORE MOUNTED TYPE

INSERT TYPE → [MITSUBISHI](#), [WIDIN](#)

| Part No.     | 치수(Dimensions)mm |    |    |      |   |             |               |            |       |
|--------------|------------------|----|----|------|---|-------------|---------------|------------|-------|
|              | D                | d  | L  | K    |   |             |               |            |       |
| AJXC-3050-22 | 50               | 22 | 50 | 10.4 | 3 | JDMW 120420 | ST4101-60W M4 | CL2C 2CLCN | TX-15 |
| AJXC-4050-22 | 50               | 22 | 50 | 10.4 | 4 |             |               |            |       |
| AJXC-3063-22 | 63               | 22 | 50 | 10.4 | 3 | JDMW 140520 | TSB263141 M5  | 3CLCN      | TX-25 |
| AJXC-4063-22 | 63               | 22 | 50 | 10.4 | 4 |             |               |            |       |
| AJXC-5080-32 | 80               | 32 | 70 | 14.4 | 5 |             |               |            |       |
| AJXC-6080-32 | 80               | 32 | 70 | 14.4 | 6 |             |               |            |       |

# Finishing EndMill Cutter

## SKSC



### - WELDON SHANK TYPE

INSERT TYPE → [DIJET](#), [WIDIN](#)

| Part No.     | 치수(Dimensions)mm |    |     |     |   |         |                |            |       |
|--------------|------------------|----|-----|-----|---|---------|----------------|------------|-------|
|              | D                | d  | L   | I   |   |         |                |            |       |
| SKSC-1616180 | 16               | 16 | 180 | 145 | 2 | WDMW04  | ST2553-55 M2.5 |            | TX-8  |
| SKSC-1716180 | 17               | 16 | 180 | 145 | 2 |         |                |            |       |
| SKSC-2020200 | 20               | 20 | 200 | 150 | 2 | WDMW 05 | ST3072-60H M3  |            | TX-8  |
| SKSC-2120200 | 21               | 20 | 200 | 155 | 2 |         |                |            |       |
| SKSC-2120250 | 21               | 20 | 250 | 205 | 2 | WDMW 06 | ST408-43 M4    | CL2C 2CLCN | TX-15 |
| SKSC-2525200 | 25               | 25 | 200 | 140 | 2 |         |                |            |       |
| SKSC-2525250 | 25               | 25 | 250 | 190 | 2 |         |                |            |       |
| SKSC-2625200 | 26               | 25 | 200 | 150 | 2 |         |                |            |       |
| SKSC-2625250 | 26               | 25 | 250 | 205 | 2 | WDMW 08 | ST4510-60 M4.5 | 3CLCN      | TX-20 |
| SKSC-3232200 | 32               | 32 | 200 | 130 | 2 |         |                |            |       |
| SKSC-3232250 | 32               | 32 | 250 | 180 | 2 |         |                |            |       |
| SKSC-3232300 | 32               | 32 | 300 | 230 | 2 |         |                |            |       |
| SKSC-3332200 | 33               | 32 | 200 | 150 | 2 |         |                |            |       |
| SKSC-3332250 | 33               | 32 | 250 | 200 | 2 |         |                |            |       |
| SKSC-3332300 | 33               | 32 | 300 | 250 | 2 |         |                |            |       |

## SKSS

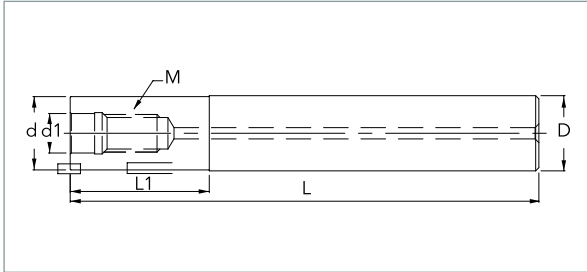
### - BORE MOUNTED TYPE

INSERT TYPE → [DIJET](#), [WIDIN](#)

| Part No.     | 치수(Dimensions)mm |    |    |      |   |              |                |       |       |
|--------------|------------------|----|----|------|---|--------------|----------------|-------|-------|
|              | D                | d  | L  | K    |   |              |                |       |       |
| SKSS-3050-22 | 50               | 22 | 50 | 10.4 | 3 | WDMW 08,.NTK | ST4510-60 M4.5 | 3CLCN | TX-20 |
| SKSS-4050-22 | 50               | 22 | 50 | 10.4 | 4 |              |                |       |       |
| SKSS-3063-27 | 63               | 27 | 50 | 12.4 | 3 |              |                |       |       |
| SKSS-4063-27 | 63               | 27 | 50 | 12.4 | 4 |              |                |       |       |
| SKSS-5080-32 | 80               | 32 | 70 | 14.4 | 5 |              |                |       |       |
| SKSS-6080-32 | 80               | 32 | 70 | 14.4 | 6 |              |                |       |       |

# Finishing EndMill Cutter

## IHCC



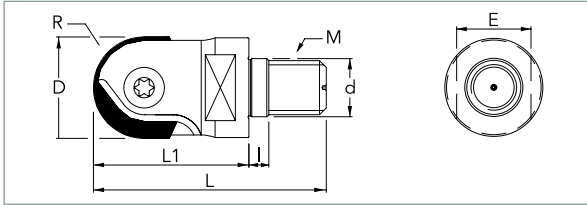
### - WELDON SHANK TYPE

### - CARBIDE SHANK TYPE

| Part No.          | 치수(Dimensions)mm |      |     |         |      |    | SHANK   | 적용헤드               |
|-------------------|------------------|------|-----|---------|------|----|---------|--------------------|
|                   | D                | d    | L   | L1      | d1   | M  |         |                    |
| M-IHCC-16172(200) | 16               | 15.5 | 172 | 22(50)  | 8.5  | 8  | STEEL   | M-0000 D16 D17     |
| M-IHCC-20187(220) | 20               | 19.5 | 187 | 37(70)  | 10.5 | 10 |         | M-0000 D20 D21     |
| M-IHCC-20217(250) | 20               | 19.5 | 217 | 37(70)  | 10.5 | 10 |         | M-0000 D25 D26     |
| M-IHCC-25212(250) | 25               | 24.5 | 212 | 62(100) | 12.5 | 12 |         | M-0000 D30 D32 D33 |
| M-IHCC-25262(300) | 25               | 24.5 | 262 | 62(100) | 12.5 | 12 |         |                    |
| M-IHCC-30155(200) | 32               | 29.5 | 155 | 55(100) | 17   | 16 |         |                    |
| M-IHCC-30205(220) | 32               | 29.5 | 205 | 55(100) | 17   | 16 |         |                    |
| M-IHCC-30255(300) | 32               | 29.5 | 255 | 55(200) | 17   | 16 |         |                    |
| C-IHCC-16172(200) | 16               | 15.5 | 172 | 22(50)  | 8.5  | 8  | CARBIDE | M-0000 D16 D17     |
| C-IHCC-20187(220) | 20               | 19.5 | 187 | 37(70)  | 10.5 | 10 |         | M-0000 D20 D21     |
| C-IHCC-20217(250) | 20               | 19.5 | 217 | 37(70)  | 10.5 | 10 |         | M-0000 D25 D26     |
| C-IHCC-25212(250) | 25               | 24.5 | 212 | 62(100) | 12.5 | 12 |         | M-0000 D30 D32 D33 |
| C-IHCC-25262(300) | 25               | 24.5 | 262 | 62(100) | 12.5 | 12 |         |                    |
| C-IHCC-30155(200) | 32               | 29.5 | 155 | 55(100) | 17   | 16 |         |                    |
| C-IHCC-30205(250) | 32               | 29.5 | 205 | 55(100) | 17   | 16 |         |                    |
| C-IHCC-30255(300) | 32               | 29.5 | 255 | 55(100) | 17   | 16 |         |                    |

# Ball Cutter

## M-ABPF

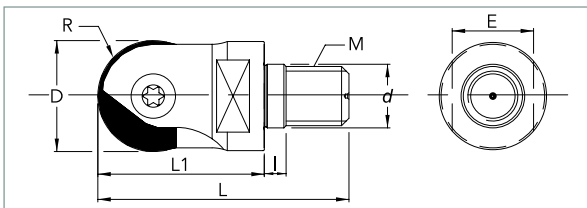


### - MODULAR SHANK TYPE

INSERT TYPE → [WIDIN, HITACHI](#)

| Part No.         | 치수(Dimensions)mm |    |      |    |    |   |    |    |  |  |  |
|------------------|------------------|----|------|----|----|---|----|----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                  | R                | D  | d    | L  | L1 | I | M  | E  |                                                                                    |                                                                                     |                                                                                     |
| M-ABPF-R08xM8    | 8                | 16 | 8.5  | 45 | 28 | 6 | 8  | 12 | ZPFG 160,17                                                                        | TSB-5844                                                                            | TX-20                                                                               |
| M-ABPF-R10xM10   | 10               | 20 | 10.5 | 52 | 33 | 6 | 10 | 15 | ZPFG 200,21                                                                        | TSB-5845                                                                            | TX-25                                                                               |
| M-ABPF-R12.5xM12 | 12.5             | 25 | 12.5 | 60 | 38 | 6 | 12 | 19 | ZPFG 250,26                                                                        | TSB-5846                                                                            | TX-30                                                                               |
| M-ABPF-R15xM16   | 15               | 30 | 17   | 68 | 45 | 6 | 12 | 22 | ZPFG 300,32                                                                        | TSB-5847                                                                            | TX-30                                                                               |

## M-SRFH

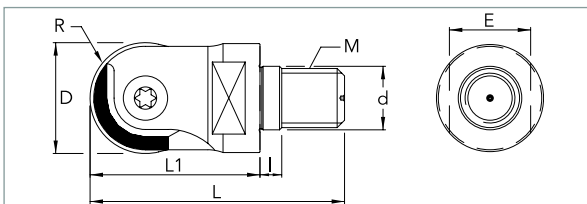


### - MODULAR SHANK TYPE

INSERT TYPE → [DIJET, MITSUBISHI, KORLOY, WIDIN](#)

| Part No.         | 치수(Dimensions)mm |    |      |    |    |   |    |    |  |  |  |
|------------------|------------------|----|------|----|----|---|----|----|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                  | R                | D  | d    | L  | L1 | I | M  | E  |                                                                                      |                                                                                       |                                                                                       |
| M-SRFH-R08xM8    | 8                | 16 | 8.5  | 45 | 28 | 6 | 8  | 12 | SRFT 16 / LBH 16,17                                                                  | FSW-4013                                                                              | TX-15                                                                                 |
| M-SRFH-R10xM10   | 10               | 20 | 10.5 | 52 | 33 | 6 | 10 | 15 | SRFT 20 / LBH 20,21                                                                  | FSW-5016                                                                              | TX-20                                                                                 |
| M-SRFH-R12.5xM12 | 12.5             | 25 | 12.5 | 60 | 38 | 6 | 12 | 19 | SRFT 25 / LBH 25,26                                                                  | FSW-6062                                                                              | TX-30                                                                                 |
| M-SRFH-R15xM16   | 15               | 30 | 17   | 68 | 45 | 6 | 12 | 22 | SRFT 30 / LBH 30,32                                                                  | FSW-8025                                                                              | TX-40                                                                                 |

## M-BFCC



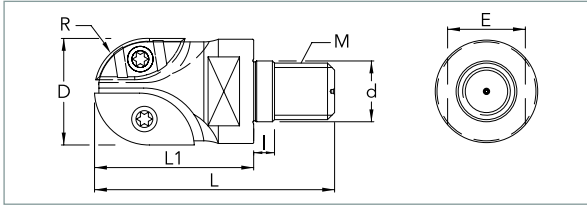
### - MODULAR SHANK TYPE

INSERT TYPE → [WIDIN, WALTER](#)

| Part No.         | 치수(Dimensions)mm |    |      |    |    |   |    |    |  |  |  |
|------------------|------------------|----|------|----|----|---|----|----|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                  | R                | D  | d    | L  | L1 | I | M  | E  |                                                                                      |                                                                                       |                                                                                       |
| M-BFCC-R08xM8    | 8                | 16 | 8.5  | 45 | 28 | 6 | 8  | 12 | SP32..D16                                                                            | TSB-392                                                                               | TX-15                                                                                 |
| M-BFCC-R10xM10   | 10               | 20 | 10.5 | 52 | 33 | 6 | 10 | 15 | SP32..D20                                                                            | TSB-393                                                                               | TX-25                                                                                 |
| M-BFCC-R12.5xM12 | 12.5             | 25 | 12.5 | 60 | 38 | 6 | 12 | 19 | SP32..D25                                                                            | TSB-394                                                                               | TX-25                                                                                 |
| M-BFCC-R15xM16   | 15               | 30 | 17   | 68 | 45 | 6 | 16 | 22 | SP32..D30                                                                            | TSB-395                                                                               | TX-30                                                                                 |

# Ball Cutter

## M-SRM

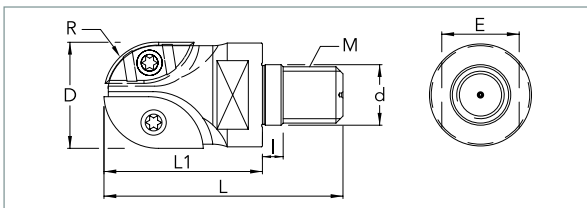


### - MODULAR SHANK TYPE

INSERT TYPE → **MITSUBISHI**

| Part No.        | 치수(Dimensions)mm |    |      |    |    |   |    |    | 안날     | 바깥날    | NO.OFF<br>INSERT |                |       |
|-----------------|------------------|----|------|----|----|---|----|----|--------|--------|------------------|----------------|-------|
|                 | R                | D  | d    | L  | L1 | I | M  | E  |        |        |                  |                |       |
| M-SRM-R08xM8    | 8                | 16 | 8.5  | 45 | 28 | 6 | 8  | 12 | SR,16C | SR,16E | 2                | ST2553-55 M2.5 | TX-8  |
| M-SRM-R10xM10   | 10               | 20 | 10.5 | 52 | 33 | 6 | 10 | 15 | SR,20C | SR,20E |                  | ST3072-60H M3  | TX-8  |
| M-SRM-R12.5xM12 | 12.5             | 25 | 12.5 | 60 | 38 | 6 | 12 | 19 | SR,25C | SR,25E |                  | ST4104-60W M4  | TX-15 |
| M-SRM-R15xM16   | 15               | 30 | 17   | 68 | 45 | 6 | 12 | 22 | SR,30C | SR,30E |                  | TSB-263141 M5  | TX-20 |

## M-BHSF

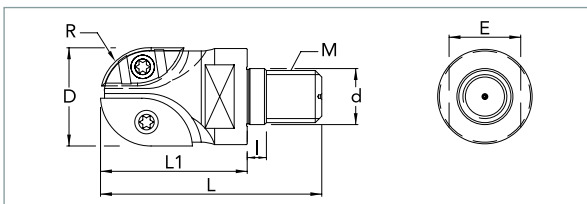


### - MODULAR SHANK TYPE

INSERT TYPE → **HITACHI**

| Part No.         | 치수(Dimensions)mm |    |      |    |    |   |    |    | 안날        | 바깥날       | NO.OFF<br>INSERT |                |       |
|------------------|------------------|----|------|----|----|---|----|----|-----------|-----------|------------------|----------------|-------|
|                  | R                | D  | d    | L  | L1 | I | M  | E  |           |           |                  |                |       |
| M-BHSF-R08xM8    | 8                | 16 | 8.5  | 45 | 28 | 6 | 8  | 12 | ZCE,080CE | ZCE,080SE | 2                | ST2553-55 M2.5 | TX-8  |
| M-BHSF-R10xM10   | 10               | 20 | 10.5 | 52 | 33 | 6 | 10 | 15 | ZCE,100CE | ZCE,100SE |                  | ST3072-60H M3  | TX-8  |
| M-BHSF-R12.5xM12 | 12.5             | 25 | 12.5 | 60 | 38 | 6 | 12 | 19 | ZCE,125CE | ZCE,125SE |                  | ST4101-6W M4   | TX-15 |
| M-BHSF-R15xM16   | 15               | 30 | 17   | 68 | 45 | 6 | 12 | 22 | ZCE,150CE | ZCE,150SE |                  | TSB-263141 M5  | TX-20 |

## M-GBEC



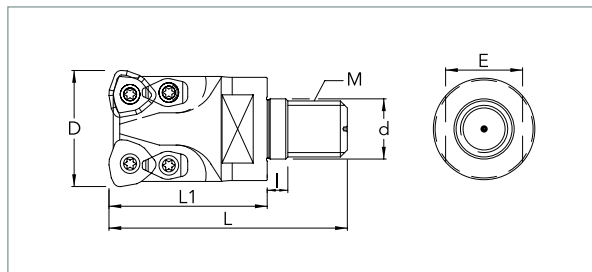
### - MODULAR SHANK TYPE

INSERT TYPE → **WIDIN**

| Part No.         | 치수(Dimensions)mm |    |      |    |    |   |    |    | 안날       | 바깥날      | NO.OFF<br>INSERT |                |       |
|------------------|------------------|----|------|----|----|---|----|----|----------|----------|------------------|----------------|-------|
|                  | R                | D  | d    | L  | L1 | I | M  | E  |          |          |                  |                |       |
| M-GBEC-R08xM8    | 8                | 16 | 8.5  | 45 | 28 | 6 | 8  | 12 | ZPET080M | ZPET080S | 2                | ST2553-55 M2.5 | TX-8  |
| M-GBEC-R10xM10   | 10               | 20 | 10.5 | 52 | 33 | 6 | 10 | 15 | ZPET100M | ZPET100S |                  | ST3072-60H M3  | TX-8  |
| M-GBEC-R12.5xM12 | 12.5             | 25 | 12.5 | 60 | 38 | 6 | 12 | 19 | ZPET125M | ZPET125S |                  | ST4101-6W M4   | TX-15 |
| M-GBEC-R15xM16   | 15               | 30 | 17   | 68 | 45 | 6 | 16 | 22 | ZPET150M | ZPET150S |                  | ST5115-63P M5  | TX-20 |

# Finishing EndMill Cutter

## M-AJXC

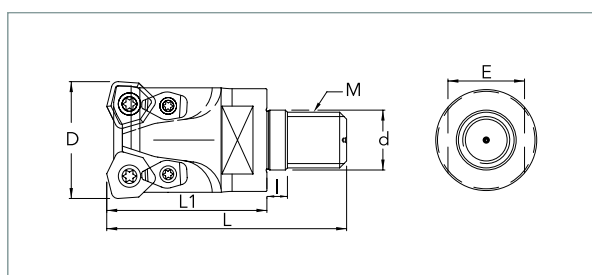


### - MODULAR SHANK TYPE

INSERT TYPE → [MITSUBISHI](#), [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |      |    |    |   |    |    |   |                     |            |                   |       |
|----------------|------------------|------|----|----|---|----|----|---|---------------------|------------|-------------------|-------|
|                | D                | d    | L  | L1 | I | M  | E  |   |                     |            |                   |       |
| M-AJXC-D16xM8  | 16               | 8.5  | 45 | 28 | 6 | 8  | 12 | 2 | JOMW06T             |            | ST2553-55<br>M2.5 | TX-8  |
| M-AJXC-D17xM8  | 17               | 8.5  | 45 | 28 | 6 | 10 | 15 |   | JOMW080             |            | ST3072-60H<br>M3  |       |
| M-AJXC-D20xM10 | 20               | 10.5 | 52 | 33 | 6 | 10 | 15 |   | JOMW09T<br>JOMW1204 | CL2C 2CLCN | ST3509-55<br>M3.5 | TX-15 |
| M-AJXC-D21xM10 | 21               | 10.5 | 52 | 33 | 6 | 10 | 15 |   |                     |            | ST4084-60<br>M4   |       |
| M-AJXC-D25xM12 | 25               | 12.5 | 60 | 38 | 6 | 12 | 19 |   |                     |            |                   |       |
| M-AJXC-D26xM12 | 26               | 12.5 | 60 | 38 | 6 | 12 | 19 |   |                     |            |                   |       |
| M-AJXC-D32xM16 | 32               | 17   | 68 | 45 | 6 | 16 | 24 |   |                     |            |                   |       |
| M-AJXC-D33xM16 | 33               | 17   | 68 | 45 | 6 | 16 | 24 |   |                     |            |                   |       |

## M-SKSC



### - MODULAR SHANK TYPE

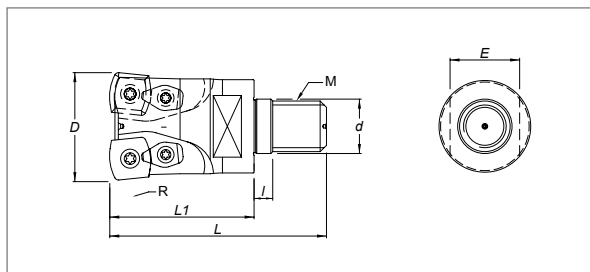
INSERT TYPE → [DIJET](#), [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |      |    |    |   |    |    |   |        |            |                   |       |
|----------------|------------------|------|----|----|---|----|----|---|--------|------------|-------------------|-------|
|                | D                | d    | L  | L1 | I | M  | E  |   |        |            |                   |       |
| M-SKSC-D16xM8  | 16               | 8.5  | 45 | 28 | 6 | 8  | 12 | 2 | WDMW04 |            | ST2553-55<br>M2.5 | TX-8  |
| M-SKSC-D17xM8  | 17               | 8.5  | 45 | 28 | 6 | 8  | 12 |   | WDMW05 |            | ST3072-60H<br>M3  |       |
| M-SKSC-D20xM10 | 20               | 10.5 | 52 | 33 | 6 | 10 | 15 |   | WDMW06 | CL2C 2CLCN | ST408-43<br>M4    | TX-15 |
| M-SKSC-D21xM10 | 21               | 10.5 | 52 | 33 | 6 | 10 | 15 |   |        |            |                   |       |
| M-SKSC-D25xM12 | 25               | 12.5 | 60 | 38 | 6 | 12 | 19 |   | WDMW08 | 3CLCN      | ST4510-60<br>M4.5 | TX-20 |
| M-SKSC-D26xM12 | 26               | 12.5 | 60 | 38 | 6 | 12 | 19 |   |        |            |                   |       |
| M-SKSC-D32xM16 | 32               | 17   | 68 | 45 | 6 | 16 | 24 |   |        |            |                   |       |
| M-SKSC-D33xM16 | 33               | 17   | 68 | 45 | 6 | 16 | 24 |   |        |            |                   |       |



# Finishing EndMill Cutter

## M-ASRL

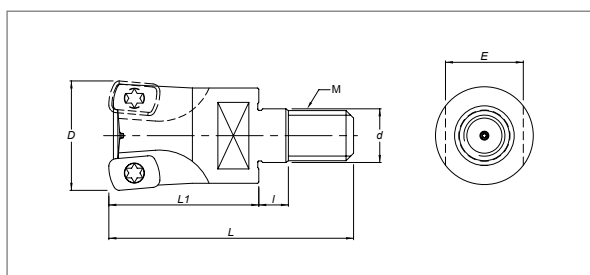


### - BORE MOUNTED TYPE

INSERT TYPE → [HITACHI](#), [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |      |    |    |   |    |    |        |  |  |  |  |  |
|----------------|------------------|------|----|----|---|----|----|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                | D                | d    | L  | L1 | I | M  | E  | R      |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| M-ASRL-D20xM10 | 20               | 10.5 | 52 | 33 | 6 | 10 | 15 | 10     | 2                                                                                 | ED,W<br>0803TN-10                                                                 |                                                                                     | ST509-55<br>M3.5                                                                    | TX-15                                                                               |
| M-ASRL-D21xM10 | 21               | 10.5 | 52 | 33 | 6 | 10 | 15 | 10     |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| M-ASRL-D25xM12 | 25               | 12.5 | 60 | 38 | 6 | 12 | 19 | 10     |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| M-ASRL-D25xM12 | 26               | 12.5 | 60 | 38 | 6 | 12 | 19 | 10     |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| M-ASRL-D32xM16 | 32               | 17   | 68 | 45 | 6 | 12 | 24 | 15(10) |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| M-ASRL-D33xM16 | 33               | 17   | 68 | 45 | 6 | 16 | 24 | 15(10) |                                                                                   |                                                                                   | ED,W<br>13T4TN-15(10)                                                               | 3CLCN                                                                               | ST512-63P<br>M4                                                                     |

## M-ASRL-Pico



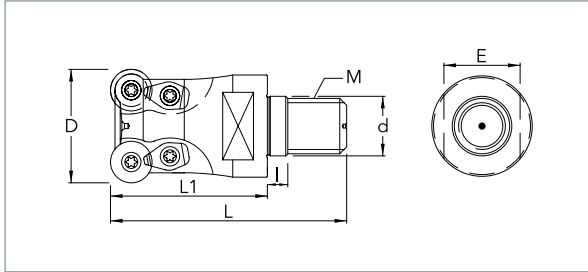
### - MODULAR SHANK TYPE

INSERT TYPE → [HITACHI](#), [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |      |    |    |   |    |    |  |  |  |  |
|----------------|------------------|------|----|----|---|----|----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                | D                | d    | L  | L1 | I | M  | E  |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| M-ASRL-D16xM8  | 16               | 8.5  | 45 | 28 | 6 | 8  | 12 | 2                                                                                   | EPMW0603                                                                             | ST2553<br>M2.5                                                                        | TX-8                                                                                  |
| M-ASRL-D17xM8  | 17               | 8.5  | 45 | 28 | 6 | 8  | 12 | 2                                                                                   |                                                                                      |                                                                                       |                                                                                       |
| M-ASRL-D20xM10 | 20               | 10.5 | 52 | 33 | 6 | 10 | 15 | 3                                                                                   |                                                                                      |                                                                                       |                                                                                       |
| M-ASRL-D21xM10 | 21               | 10.5 | 52 | 33 | 6 | 10 | 15 | 3                                                                                   |                                                                                      |                                                                                       |                                                                                       |
| M-ASRL-D25xM12 | 25               | 12.5 | 60 | 38 | 6 | 12 | 19 | 4                                                                                   |                                                                                      |                                                                                       |                                                                                       |
| M-ASRL-D25xM12 | 26               | 12.5 | 60 | 38 | 6 | 12 | 19 | 4                                                                                   |                                                                                      |                                                                                       |                                                                                       |
| M-ASRL-D32xM16 | 32               | 17   | 68 | 45 | 6 | 12 | 24 | 5                                                                                   |                                                                                      |                                                                                       |                                                                                       |
| M-ASRL-D33xM16 | 33               | 17   | 68 | 45 | 6 | 16 | 24 | 5                                                                                   |                                                                                      |                                                                                       |                                                                                       |
| M-ASRL-D40xM16 | 40               | 17   | 68 | 45 | 6 | 16 | 24 | 6                                                                                   |                                                                                      |                                                                                       |                                                                                       |

# Finishing EndMill Cutter

## M-RMCC

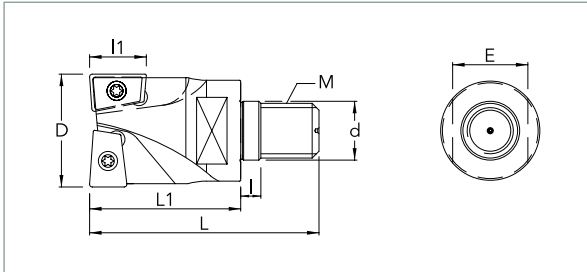


### - MODULAR SHANK TYPE

INSERT TYPE → [HITACHI](#), [WALTER](#), [WIDIN](#)

| Part No.          | 치수(Dimensions)mm |      |    |    |   |    |    |   |             |            |             |       |
|-------------------|------------------|------|----|----|---|----|----|---|-------------|------------|-------------|-------|
|                   | D                | d    | L  | L1 | I | M  | E  |   |             |            |             |       |
| M-RMCC-H-D1608xM8 | 16               | 8.5  | 45 | 28 | 6 | 8  | 12 | 2 | RDMW 0802-H |            | ST307-55 M3 | TX-8  |
| M-RMCC-H-D1708xM8 | 17               | 8.5  | 45 | 28 | 6 | 8  | 12 |   | RDMT 0803   |            |             |       |
| M-RMCC-D1608xM8   | 16               | 8.5  | 45 | 25 | 6 | 8  | 12 |   |             |            |             |       |
| M-RMCC-D1708xM8   | 17               | 8.5  | 45 | 25 | 6 | 8  | 12 |   |             |            |             |       |
| M-RMCC-D2010xM10  | 20               | 10.5 | 52 | 33 | 6 | 10 | 15 |   | RDMT 10T3   | CL2C 2CLCN | ST408-43 M4 | TX-15 |
| M-RMCC-D2110xM10  | 21               | 10.5 | 52 | 33 | 6 | 10 | 15 |   |             |            |             |       |
| M-RMCC-D2512xM12  | 25               | 12.5 | 60 | 38 | 6 | 12 | 19 |   |             |            |             |       |
| M-RMCC-D2612xM12  | 26               | 12.5 | 60 | 38 | 6 | 12 | 19 |   |             |            |             |       |
| M-RMCC-D3212xM16  | 32               | 17   | 68 | 45 | 6 | 16 | 24 |   |             |            |             |       |
| M-RMCC-D3312xM16  | 33               | 17   | 68 | 45 | 6 | 16 | 24 |   |             |            |             |       |

## M-AQXC

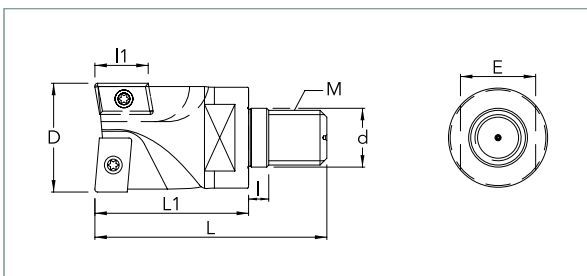


### - MODULAR SHANK TYPE

INSERT TYPE → [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |      |    |    |   |      |    |    |   |           |                   |      |
|----------------|------------------|------|----|----|---|------|----|----|---|-----------|-------------------|------|
|                | D                | d    | L  | L1 | I | II   | M  | E  |   |           |                   |      |
| M-AQXC-D16xM8  | 16               | 8.5  | 45 | 28 | 6 | 7.4  | 8  | 12 | 2 | QOMT0830R | ST2043-60H<br>M2  | TX-6 |
| M-AQXC-D17xM8  | 17               | 8.5  | 45 | 28 | 6 | 7.4  | 8  | 12 |   |           |                   |      |
| M-AQXC-D20xM10 | 20               | 10.5 | 52 | 33 | 6 | 9.2  | 10 | 15 |   |           |                   |      |
| M-AQXC-D21xM10 | 21               | 10.5 | 52 | 33 | 6 | 9.2  | 10 | 15 |   |           |                   |      |
| M-AQXC-D25xM12 | 25               | 12.5 | 60 | 38 | 6 | 11.5 | 12 | 19 |   | QOMT1035R | ST2553-55<br>M2.5 | TX-8 |
| M-AQXC-D26xM12 | 26               | 12.5 | 60 | 38 | 6 | 11.5 | 12 | 19 |   |           |                   |      |
| M-AQXC-D32xM16 | 32               | 17   | 68 | 45 | 6 | 14.5 | 16 | 24 |   |           | ST3072-60H<br>M3  |      |
| M-AQXC-D33xM16 | 33               | 17   | 68 | 45 | 6 | 14.5 | 16 | 24 |   |           | ST4084-60<br>M4   |      |

## M-SECL



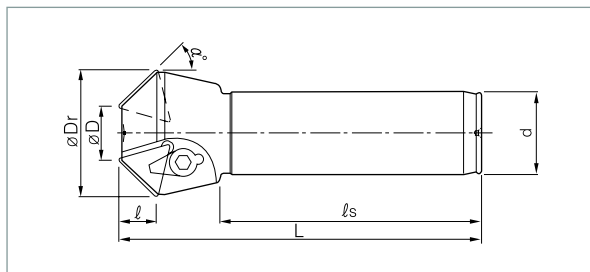
### - MODULAR SHANK TYPE

INSERT TYPE → [HITACHI](#)

| Part No.       | 치수(Dimensions)mm |      |    |    |   |      |    |    |   | 안날              | 바깥날             |                    |      |
|----------------|------------------|------|----|----|---|------|----|----|---|-----------------|-----------------|--------------------|------|
|                | D                | d    | L  | L1 | I | II   | M  | E  |   |                 |                 |                    |      |
| M-SECL-D16xM8  | 16               | 8.5  | 45 | 28 | 6 | 8    | 8  | 12 | 2 | ZDMT<br>08T208L | ZPMT<br>09T208R | ST22045-55<br>M2.2 | TX-6 |
| M-SECL-D17xM8  | 17               | 8.5  | 45 | 28 | 6 | 8    | 8  | 12 |   |                 |                 |                    |      |
| M-SECL-D20xM10 | 20               | 10.5 | 52 | 33 | 6 | 9.4  | 10 | 15 |   |                 |                 |                    |      |
| M-SECL-D21xM10 | 21               | 10.5 | 52 | 33 | 6 | 9.4  | 10 | 15 |   |                 |                 |                    |      |
| M-SECL-D25xM12 | 25               | 12.5 | 60 | 38 | 6 | 12.3 | 12 | 19 |   | ZDMT<br>13T308L | ZPMT<br>13T308R | ST2553-55<br>M2.5  | TX-8 |
| M-SECL-D26xM12 | 26               | 12.5 | 60 | 38 | 6 | 12.3 | 12 | 19 |   |                 |                 |                    |      |
| M-SECL-D32xM16 | 32               | 17   | 68 | 45 | 6 | 15   | 16 | 24 |   |                 |                 | ST3072-60H<br>M3   |      |
| M-SECL-D33xM16 | 33               | 17   | 68 | 45 | 6 | 15   | 16 | 24 |   |                 |                 | ST4084-60<br>M4    |      |

# Champer Mill Cutter

## CHCL

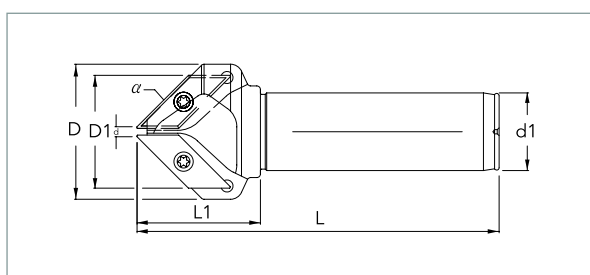


### - MODULAR SHANK TYPE

INSERT TYPE → **TAEGU-TEC**

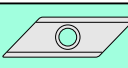
| ITEM CODE  |             | NO.OFF<br>INSERT | 치수(Dimensions)mm |    |      |     |    |      |     |  | INSERTS USED                                                                                   |
|------------|-------------|------------------|------------------|----|------|-----|----|------|-----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|            |             |                  | $\alpha^\circ$   | ØD | ØDr  | L   | Ød | ℓ    | ℓ S |                                                                                     |                                                                                                |
| Long Shank | CHCL 10-30° | 1                | 30°              | 10 | 25   | 120 | 25 | 7.1  | 90  | TP16                                                                                | TPKN16030   |
|            | CHCL 20-30° | 2                | 30°              | 20 | 35   | 150 | 32 | 9.9  | 110 | TP16                                                                                | TPKN16030   |
|            | CHCL 35-30° | 2                | 30°              | 35 | 55.8 | 150 | 32 | 9.9  | 110 | TP22                                                                                | TPKN22040   |
|            | CHCL 05-45° | 1                | 45°              | 5  | 25   | 120 | 20 | 10.1 | 90  | TP16                                                                                | TPKN16030   |
|            | CHCL 10-45° | 2                | 45°              | 10 | 31.0 | 140 | 25 | 10.1 | 110 | TP16                                                                                | TPKN16030   |
|            | CHCL 20-45° | 2                | 45°              | 20 | 48.8 | 150 | 32 | 14.0 | 110 | TP22                                                                                | TPKN22040   |
|            | CHCL 35-45° | 3                | 45°              | 35 | 63.8 | 150 | 32 | 14.0 | 110 | TP22                                                                                | TPKN22040  |

## CSCC



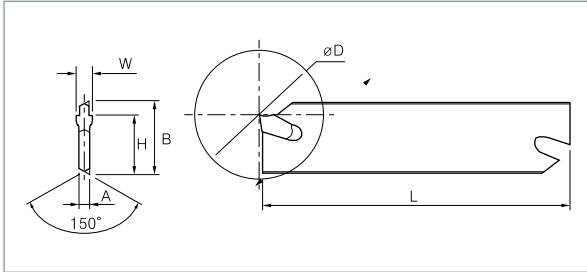
### - MODULAR SHANK TYPE

INSERT TYPE → **TUNGALOY, WIDIN**

| Part No.       | 치수(Dimensions)mm |    |    |    |    |     |    |  |  |  |  |  |  |  |
|----------------|------------------|----|----|----|----|-----|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|--|--|
|                | $\alpha^\circ$   | D  | D1 | d  | d1 | L   | L1 |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
| CSCC05031R-10° | 10°              | 26 | 27 | 14 | 32 | 130 | 50 | 1                                                                                   | XCET 310404ER                                                                         | ST512-63P M5                                                                          | TX-20                                                                                 |  |  |  |
| CSCC05031R-15° | 15°              | 29 | 30 | 13 |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
| CSCC05031R-20° | 20°              | 29 | 30 | 9  |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
| CSCC05031R-25° | 25°              | 37 | 33 | 6  |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
| CSCC05031R-30° | 30°              | 44 | 34 | 5  |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
| CSCC05031R-35° | 35°              | 49 | 40 | 4  |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
| CSCC05031R-40° | 40°              | 51 | 43 | 4  |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
| CSCC05031R-45° | 45°              | 56 | 48 | 4  |    |     |    | 2                                                                                   |                                                                                       |                                                                                       |                                                                                       |  |  |  |
| CSCC05031R-50° | 50°              | 60 | 53 | 4  |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
| CSCC05031R-55° | 55°              | 65 | 55 | 4  |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
| CSCC05031R-60° | 60°              | 74 | 57 | 4  |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |

# Blades

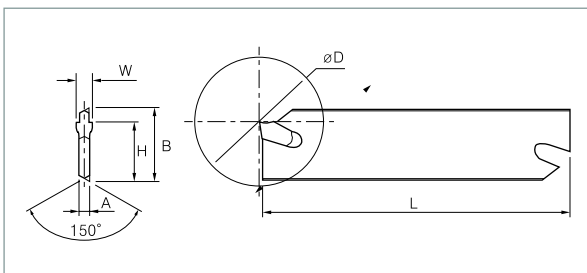
## SD 블레이드 / SD Blade



INSERT TYPE → **TAEGU-TEC**

| Part No.  | B    | L   | H    | A   | W   | Dwax. | 인서트    | 렌치     | 블럭          |
|-----------|------|-----|------|-----|-----|-------|--------|--------|-------------|
| SD 26 - 3 | 26.0 | 110 | 21.4 | 2.4 | 3.1 | 75    | KSXN 3 | KTW R1 | CTHT □□ -26 |
| SD 26 - 4 | 26.0 | 110 | 21.4 | 3.2 | 4.1 | 80    | KSXN 4 |        |             |
| SD 32 - 3 | 32.0 | 150 | 24.8 | 2.4 | 3.1 | 100   | KSXN 3 |        | CTHT □□ -32 |
| SD 32 - 4 | 32.0 | 150 | 24.8 | 3.2 | 4.1 | 100   | KSXN 4 |        |             |

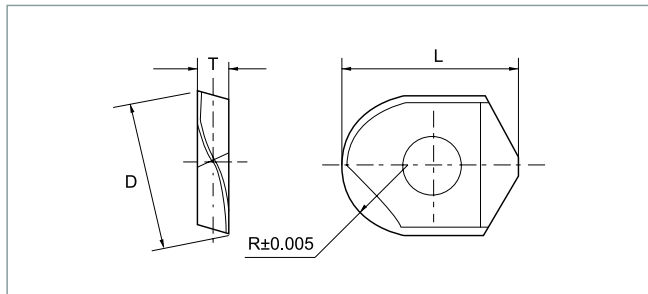
## CTHT



| Part No.     | 치수(Dimensions)mm |      |    |    |    |     |     |    |    | 스크류            | 렌치   |
|--------------|------------------|------|----|----|----|-----|-----|----|----|----------------|------|
|              | H                | H1   | H2 | H3 | H4 | B   | L1  | L2 | L3 |                |      |
| CTHT 20 – 26 | 26               | 21.4 | 20 | 8  | 38 | 4.0 | 87  | 19 | 33 | M6×1.0 S.H.C.S | L–W5 |
| CTHT 20 – 32 | 32               | 24.8 | 20 | 13 | 38 | 4.0 | 100 | 19 | 35 |                |      |
| CTHT 25 – 26 | 26               | 21.4 | 25 | 8  | 48 | 5.5 | 110 | 20 | 36 |                |      |
| CTHT 25 – 32 | 32               | 24.8 | 25 | 3  | 48 | 5.5 | 120 | 28 | 44 |                |      |
| CTHT 32 – 32 | 32               | 30   | 32 | 4  | 53 | 5.5 | 110 | 31 | 48 |                |      |

# Milling Insert

## 정삭 볼 인서트 / Finishing Ball Insert

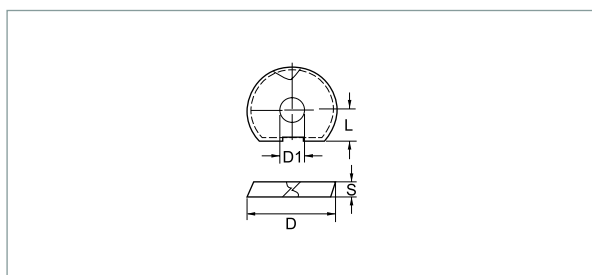


- 적용 HOLDER : ABPF, C-ABPF, M-ABPF

INSERT TYPE → [WIDIN](#)

| Part No. | 치수(Dimensions)mm |    |      |     |
|----------|------------------|----|------|-----|
|          | R                | D  | L    | T   |
| ZPSW 120 | 6                | 12 | 14.5 | 3.2 |
| ZPSW 130 | 6.5              | 13 | 14.5 | 3.2 |
| ZPSW 160 | 8                | 16 | 16.5 | 4.2 |
| ZPSW 170 | 8.5              | 17 | 16.5 | 4.2 |
| ZPSW 200 | 10               | 20 | 20.5 | 5.2 |
| ZPSW 210 | 10.5             | 21 | 20.5 | 5.2 |
| ZPSW 250 | 12.5             | 25 | 24.0 | 6.2 |
| ZPSW 260 | 13               | 26 | 24.0 | 6.2 |
| ZPSW 300 | 15               | 30 | 29.0 | 7.2 |
| ZPSW 320 | 16               | 32 | 30.0 | 7.2 |

## 정삭 볼 인서트 / Finishing Ball Insert



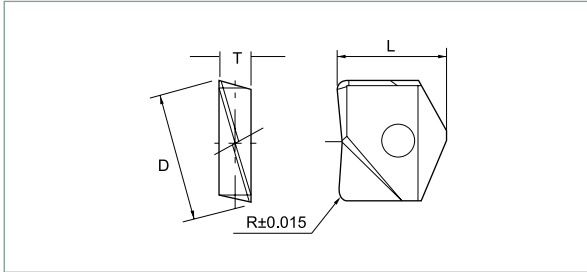
- 적용 HOLDER : BFCC, BFCC, M-BFCC

INSERT TYPE → [WIDIN](#)

| Part No.    | 치수(Dimensions)mm |    |    |     |
|-------------|------------------|----|----|-----|
|             | D                | D1 | L  | S   |
| SP3204-D100 | 10               | 4  | 5  | 2.5 |
| SP3204-D120 | 12               | 5  | 6  | 2.5 |
| SP3204-D160 | 16               | 5  | 6  | 3   |
| SP3204-D200 | 20               | 5  | 6  | 3   |
| SP3204-D250 | 25               | 6  | 9  | 4   |
| SP3204-D300 | 30               | 8  | 10 | 5   |
| SP3204-D320 | 32               | 8  | 10 | 5   |

# Milling Insert

## 피니싱 코너 래디우스 인서트 / Finishing Coner Radius Insert



- 적용 HOLDER : ABPF, C-BHCC, BHCC

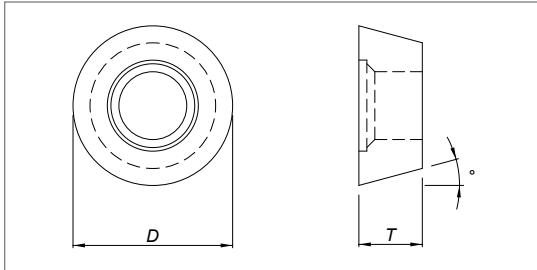
INSERT TYPE → [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |    |     |     |
|---------------|------------------|----|-----|-----|
|               | L                | D  | T   | R   |
| ZPSR-100-0.5R | 12.0             | 10 | 2.7 | 0.5 |
| ZPSR-100-1.0R | 12.0             | 10 | 2.7 | 1.0 |
| ZPSR-100-2.0R | 12.0             | 10 | 2.7 | 2.0 |
| ZPSR-120-0.5R | 14.5             | 12 | 3.2 | 0.5 |
| ZPSR-120-1.0R | 14.5             | 12 | 3.2 | 1.0 |
| ZPSR-120-2.0R | 14.5             | 12 | 3.2 | 2.0 |
| ZPSR-130-0.5R | 14.5             | 13 | 3.2 | 0.5 |
| ZPSR-130-1.0R | 14.5             | 13 | 3.2 | 1.0 |
| ZPSR-130-2.0R | 14.5             | 13 | 3.2 | 2.0 |
| ZPSR-160-0.5R | 16.5             | 16 | 4.2 | 0.5 |
| ZPSR-160-1.0R | 16.5             | 16 | 4.2 | 1.0 |
| ZPSR-160-2.0R | 16.5             | 16 | 4.2 | 2.0 |
| ZPSR-170-0.5R | 16.5             | 17 | 4.2 | 0.5 |
| ZPSR-170-1.0R | 16.5             | 17 | 4.2 | 1.0 |
| ZPSR-170-2.0R | 16.5             | 17 | 4.2 | 2.0 |
| ZPSR-200-0.5R | 20.0             | 20 | 5.2 | 0.5 |
| ZPSR-200-1.0R | 20.0             | 20 | 5.2 | 1.0 |
| ZPSR-200-2.0R | 20.0             | 20 | 5.2 | 2.0 |
| ZPSR-210-0.5R | 20.0             | 21 | 5.2 | 0.5 |
| ZPSR-210-1.0R | 20.0             | 21 | 5.2 | 1.0 |
| ZPSR-210-2.0R | 20.0             | 21 | 5.2 | 2.0 |
| ZPSR-250-0.5R | 22.5             | 25 | 6.2 | 0.5 |
| ZPSR-250-1.0R | 22.5             | 25 | 6.2 | 1.0 |
| ZPSR-250-2.0R | 22.5             | 25 | 6.2 | 2.0 |
| ZPSR-260-0.5R | 22.5             | 26 | 6.2 | 0.5 |
| ZPSR-260-1.0R | 22.5             | 26 | 6.2 | 1.0 |
| ZPSR-260-2.0R | 22.5             | 26 | 6.2 | 2.0 |
| ZPSR-300-0.5R | 27.0             | 30 | 7.2 | 0.5 |
| ZPSR-300-1.0R | 27.0             | 30 | 7.2 | 1.0 |
| ZPSR-300-2.0R | 27.0             | 30 | 7.2 | 2.0 |



# Milling Insert

## 라운드 인서트 / Round Insert

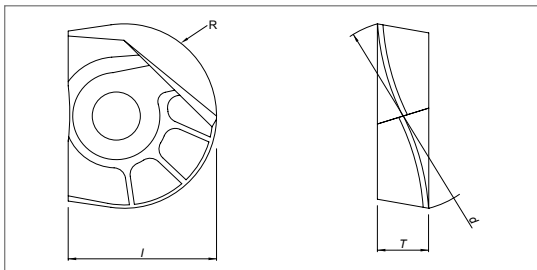


- 적용 HOLDER : RDT

INSERT TYPE → [WIDIN](#)

| Part No. | 치수(Dimensions)mm |      |     |    |
|----------|------------------|------|-----|----|
|          | D                | T    | Q   | 재질 |
| RDMW0501 | 5.0              | 1.4  | 15° |    |
| RDMW0702 | 7.0              | 2.38 | 15° |    |
| RDMW1003 | 10.0             | 3.18 | 15° |    |

## 볼 인서트 / Ball Insert(Indexable Milling)



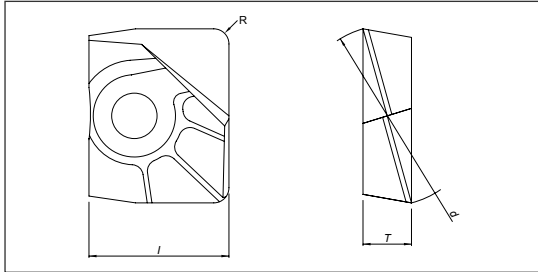
- 적용 HOLDER : SRFH, C-SRFH

INSERT TYPE → [WIDIN](#)

| Part No. | 치수(Dimensions)mm |      |     |      |
|----------|------------------|------|-----|------|
|          | l                | d    | t   | r    |
| LBH-080  | 7.0              | 8.0  | 2.4 | 4    |
| LBH-090  | 7.5              | 9.0  | 2.4 | 4.5  |
| LBH-100  | 8.5              | 10.0 | 2.6 | 5    |
| LBH-110  | 9.0              | 11.0 | 2.6 | 5.5  |
| LBH-120  | 10.0             | 12.0 | 3   | 6    |
| LBH-130  | 10.5             | 13.0 | 3   | 6.5  |
| LBH-160  | 12.0             | 16.0 | 4   | 8    |
| LBH-170  | 12.5             | 17.0 | 4   | 8.5  |
| LBH-200  | 15.0             | 20.0 | 5   | 10   |
| LBH-210  | 15.5             | 21.0 | 5   | 10.5 |
| LBH-250  | 18.5             | 25.0 | 6   | 12.5 |
| LBH-260  | 19.0             | 26.0 | 6   | 13   |
| LBH-300  | 22.5             | 30.0 | 7   | 15   |
| LBH-310  | 23.0             | 31.0 | 7   | 15.5 |
| LBH-320  | 23.5             | 32.0 | 7   | 16   |

# Milling Insert

## 코너 래디우스 인서트 / Coner Rdius Insert (Indexable Milling)



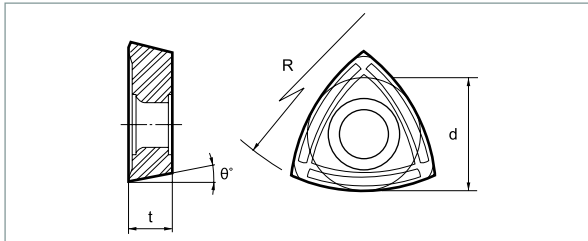
- 적용 HOLDER : SRFH

INSERT TYPE → [WIDIN](#)

| Part No.    | 치수(Dimensions)mm |      |     |     |
|-------------|------------------|------|-----|-----|
|             | l                | d    | t   | r   |
| LRH100-R0.5 | 8.5              | 10.0 | 2.6 | 0.5 |
| LRH100-R1.0 | 8.5              | 10.0 | 2.6 | 1.0 |
| LRH100-R2.0 | 8.5              | 10.0 | 2.6 | 2.0 |
| LRH110-R0.5 | 9.0              | 11.0 | 2.6 | 0.5 |
| LRH110-R1.0 | 9.0              | 11.0 | 2.6 | 1.0 |
| LRH110-R2.0 | 9.0              | 11.0 | 2.6 | 2.0 |
| LRH120-R0.5 | 10.0             | 12.0 | 3   | 0.5 |
| LRH120-R1.0 | 10.0             | 12.0 | 3   | 1.0 |
| LRH120-R2.0 | 10.0             | 12.0 | 3   | 2.0 |
| LRH130-R0.5 | 10.5             | 13.0 | 3   | 0.5 |
| LRH130-R1.0 | 10.5             | 13.0 | 3   | 1.0 |
| LRH130-R2.0 | 10.5             | 13.0 | 3   | 2.0 |
| LRH160-R0.5 | 12.0             | 16.0 | 4   | 0.5 |
| LRH160-R1.0 | 12.0             | 16.0 | 4   | 1.0 |
| LRH160-R2.0 | 12.0             | 16.0 | 4   | 2.0 |
| LRH170-R0.5 | 12.5             | 17.0 | 4   | 0.5 |
| LRH170-R1.0 | 12.5             | 17.0 | 4   | 1.0 |
| LRH170-R2.0 | 12.5             | 17.0 | 4   | 2.0 |
| LRH200-R0.5 | 15.0             | 20.0 | 5   | 0.5 |
| LRH200-R1.0 | 15.0             | 20.0 | 5   | 1.0 |
| LRH200-R2.0 | 15.0             | 20.0 | 5   | 2.0 |
| LRH210-R0.5 | 15.0             | 21.0 | 5   | 0.5 |
| LRH210-R1.0 | 15.0             | 21.0 | 5   | 1.0 |
| LRH210-R2.0 | 15.0             | 21.0 | 5   | 2.0 |
| LRH250-R0.5 | 18.5             | 25.0 | 6   | 0.5 |
| LRH250-R1.0 | 18.5             | 25.0 | 6   | 1.0 |
| LRH250-R2.0 | 18.5             | 25.0 | 6   | 2.0 |
| LRH260-R0.5 | 19.0             | 26.0 | 6   | 0.5 |
| LRH260-R1.0 | 19.0             | 26.0 | 6   | 1.0 |
| LRH260-R2.0 | 19.0             | 26.0 | 6   | 2.0 |
| LRH300-R0.5 | 22.5             | 30.0 | 7   | 0.5 |
| LRH300-R1.0 | 22.5             | 30.0 | 7   | 1.0 |
| LRH300-R2.0 | 22.5             | 30.0 | 7   | 2.0 |
| LRH320-R0.5 | 22.5             | 32.0 | 7   | 0.5 |
| LRH320-R1.0 | 22.5             | 32.0 | 7   | 1.0 |
| LRH320-R2.0 | 22.5             | 32.0 | 7   | 2.0 |

# Milling Insert

## 볼 컷타 / Ball Cutter Insert

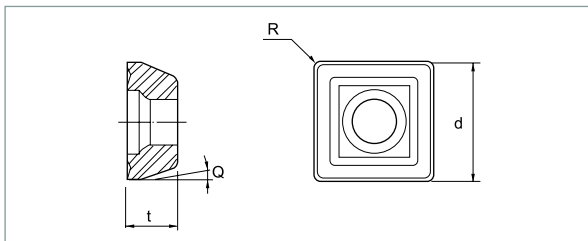


- 적용 HOLDER : BMCC-MD

INSERT TYPE → [WIDIN](#)

| Part No. | 치수(Dimensions)mm |      |      |                |
|----------|------------------|------|------|----------------|
|          | R                | d    | t    | $\theta^\circ$ |
| RBMX50   | 25               | 12.7 | 5.56 | 11°            |

## 헬리칼 컷타 인서트 / Helical Cutter Insert

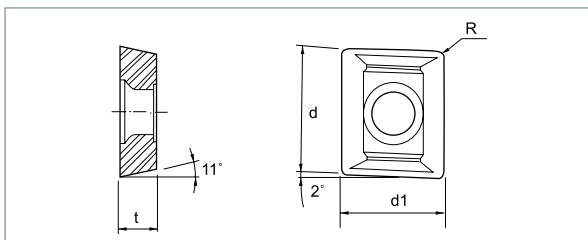


- 적용 HOLDER : BMCC-MD, HMCC-MD

INSERT TYPE → [WIDIN](#)

| Part No.   | 치수(Dimensions)mm |      |     |                |
|------------|------------------|------|-----|----------------|
|            | d                | t    | R   | $\theta^\circ$ |
| SPMT090308 | 9.525            | 3.8  | 0.8 | 14°            |
| SPMT120408 | 12.7             | 4.76 | 0.8 | 11°            |

## 헬리칼 컷타 인서트 / Helical Cutter Insert



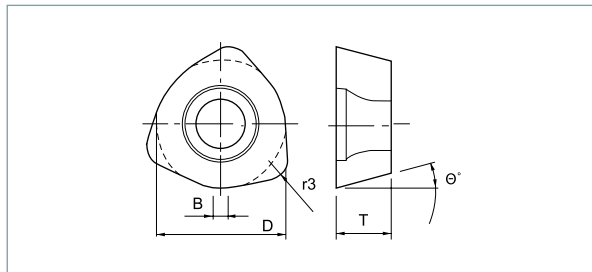
- 적용 HOLDER : HMCC-MD

INSERT TYPE → [WIDIN](#)

| Part No.    | 치수(Dimensions)mm |      |      |     |
|-------------|------------------|------|------|-----|
|             | d                | d1   | t    | R   |
| ZPMT1504... | 15.88            | 12.7 | 4.76 | 0.8 |

# Milling Insert

## 정삭 밀 인서트 / Finishing Mill Insert

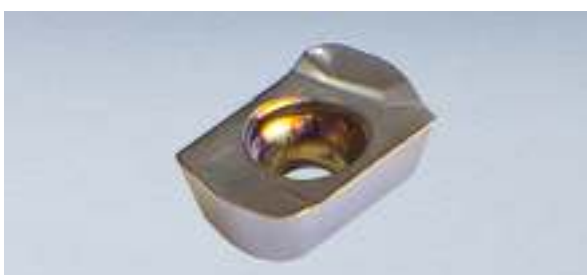
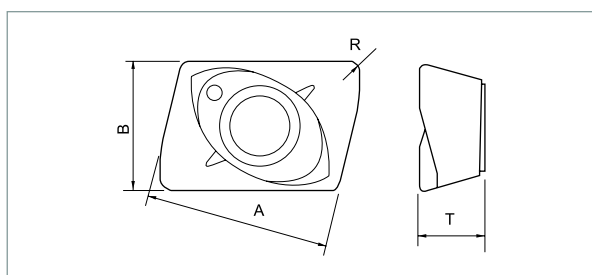


- 적용 HOLDER : SKCC, SKSS

INSERT TYPE → [WIDIN](#)

| Part No.   | 치수(Dimensions)mm |     |     |    |     |
|------------|------------------|-----|-----|----|-----|
|            | D                | R   | T   | θ° | C   |
| WDMW04T215 | 6.5              | 0.8 | 2.8 | 13 | 0.8 |
| WDMW050310 | 8                | 1.0 | 3.2 | 15 | 1.0 |
| WDMW06T312 | 10               | 1.2 | 3.9 | 15 | 1.2 |
| WDMW080415 | 13               | 1.5 | 5.5 | 15 | 1.5 |

## 정삭 밀 인서트 / Finishing Mill Insert



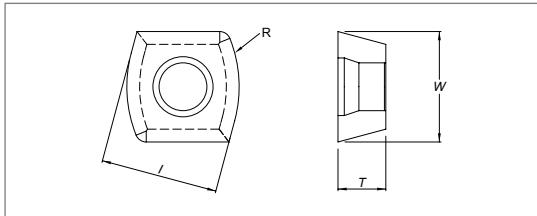
- 적용 HOLDER : MPMC

INSERT TYPE → [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |      |     |     |
|---------------|------------------|------|-----|-----|
|               | B                | A    | T   | R   |
| EOMT-060210ER | 4.3              | 6.43 | 2.5 | 1.0 |

# Milling Insert

## 인덱서블 밀링 인서트 / Indexable Milling Insert

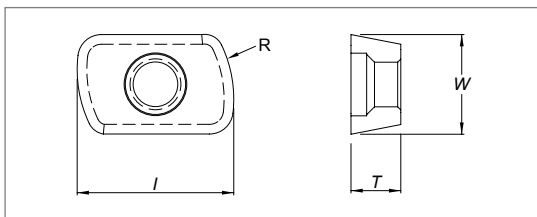


- 적용 HOLDER : ASRL

INSERT TYPE → [WIDIN](#)

| Part No.    | 치수(Dimensions)mm |      |      |      |
|-------------|------------------|------|------|------|
|             | R                | L    | T    | W    |
| EDNW080308- | 10               | 8.1  | 3.18 | 7.94 |
| EDNW10T3-   | 10               | 10   | 3.97 | 10   |
| EDNW13T4-   | 10               | 13.5 | 5.56 | 12.7 |
| EDNW15T4-   | 15               | 15   | 5.56 | 14   |

## 인덱서블 밀링 인서트 / Indexable Milling Insert

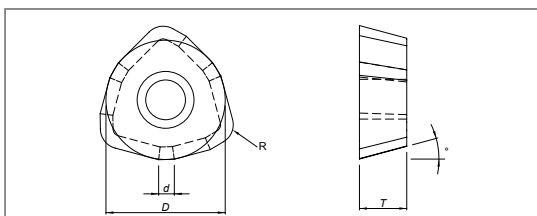


- 적용 HOLDER : ASRL

INSERT TYPE → [WIDIN](#)

| Part No.  | 치수(Dimensions)mm |    |      |      |
|-----------|------------------|----|------|------|
|           | R                | L  | T    | W    |
| EDNW0603- | 8                | 10 | 3.18 | 6.35 |

## 인덱서블 밀링 인서트 / Indexable Milling Insert



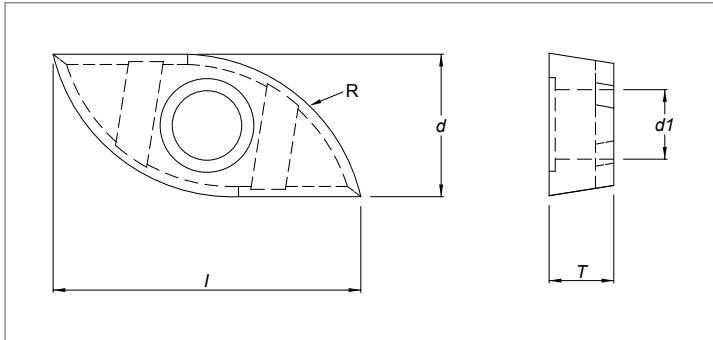
- 적용 HOLDER : AJXC

INSERT TYPE → [WIDIN](#)

| Part No.    | 치수(Dimensions)mm |     |     |      |          |
|-------------|------------------|-----|-----|------|----------|
|             | D                | d   | R   | T    | $\theta$ |
| JOMW06T215- | 6.35             | 1.2 | 1.5 | 2.78 | 13°      |
| JOMW080320- | 8                | 1.4 | 2   | 3.18 | 13°      |
| JOMW09T320- | 9.525            | 1.8 | 2   | 3.97 | 15°      |
| JOMW120420- | 12               | 2.5 | 2   | 4.76 | 15°      |
| JOMW140520- | 4                | 2.8 | 2   | 5.56 | 15°      |

# Milling Insert

## 인덱서블 인서트 / Indexable Insert

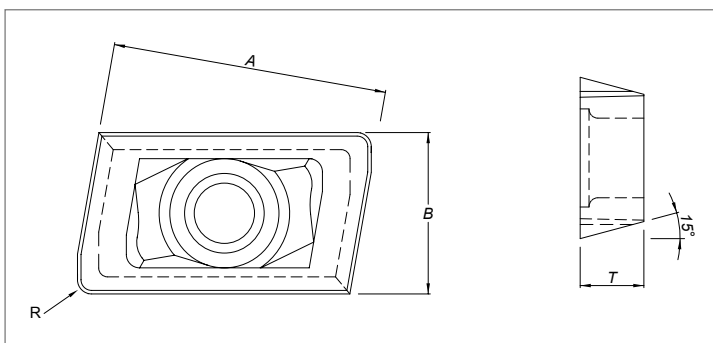


- 적용 HOLDER : GBEC

INSERT TYPE → [WIDIN](#)

| Part No.                                                                            |           | 치수(Dimensions)mm |      |     |      |       |
|-------------------------------------------------------------------------------------|-----------|------------------|------|-----|------|-------|
|                                                                                     |           | $l$              | $d$  | $t$ | $r$  | $d_1$ |
|   | ZPET080-M | 16               | 8.0  | 3.5 | 8    | 2.9   |
|                                                                                     | ZPET100-M | 19               | 10.4 | 4.5 | 10   | 3.4   |
|                                                                                     | ZPET125-M | 24               | 12.9 | 5.3 | 12.5 | 4.5   |
|                                                                                     | ZPET150-M | 28               | 15.4 | 7   | 15   | 5.6   |
|  | ZPET080-S | 15               | 6.6  | 3.1 | 8    | 2.9   |
|                                                                                     | ZPET100-S | 15.5             | 8.4  | 3.8 | 10   | 3.4   |
|                                                                                     | ZPET125-S | 20.5             | 10.7 | 4.5 | 12.5 | 4.5   |
|                                                                                     | ZPET150-M | 25               | 12.4 | 6.5 | 15   | 5.6   |

## 인덱서블 밀링 인서트 / Indexable Milling Insert



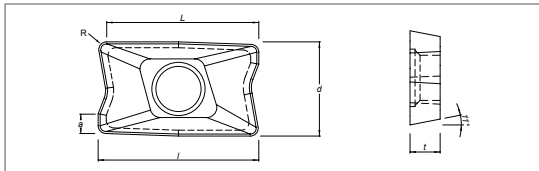
- 적용 HOLDER : AHU

INSERT TYPE → [WIDIN](#)

| Part No.    | 치수(Dimensions)mm |      |     |     |
|-------------|------------------|------|-----|-----|
|             | $A$              | $B$  | $T$ | $R$ |
| JDMT100308R | 11               | 6.1  | 3.5 | 0.8 |
| JDMT150508R | 16               | 9.12 | 5   | 0.8 |

# Milling Insert

## APKT17(멀티용)인서트 / APKT17(MT)Insert

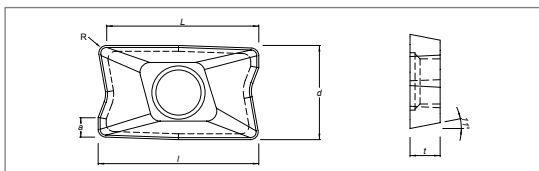


- 적용 HOLDER : ENCC

INSERT TYPE → [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |      |      |     |      |     |
|---------------|------------------|------|------|-----|------|-----|
|               | l                | d    | t    | a   | L    | r   |
| APKT170508-MT | 18.5             | 10.7 | 5.56 | 2.0 | 16.1 | 0.8 |

## APKT17(강용)인서트 / APKT17(EM)Insert

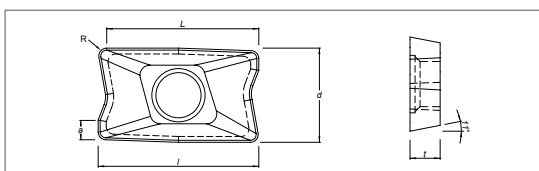


- 적용 HOLDER : ENCC

INSERT TYPE → [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |      |      |     |      |     |
|---------------|------------------|------|------|-----|------|-----|
|               | l                | d    | t    | a   | L    | r   |
| APKT170508-EM | 18.5             | 10.7 | 5.56 | 2.0 | 16.1 | 0.8 |

## APKT17(써스용)인서트 / APKT17(SU)Insert

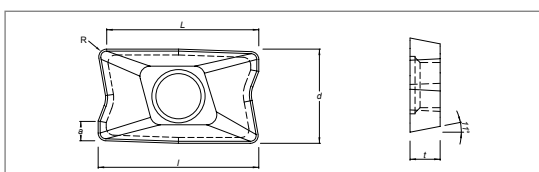


- 적용 HOLDER : ENCC

INSERT TYPE → [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |      |      |     |      |     |
|---------------|------------------|------|------|-----|------|-----|
|               | l                | d    | t    | a   | L    | r   |
| APKT170508-SU | 18.5             | 10.7 | 5.56 | 2.0 | 16.1 | 0.8 |

## APKT17(알루미늄용)인서트 / APKT17(AL)Insert



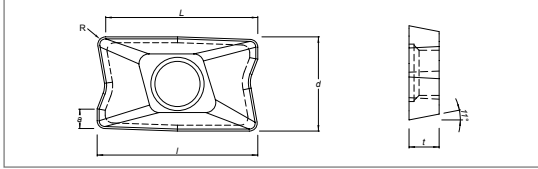
- 적용 HOLDER : ENCC

INSERT TYPE → [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |      |      |     |      |     |
|---------------|------------------|------|------|-----|------|-----|
|               | l                | d    | t    | a   | L    | r   |
| APKT170508-AL | 17.6             | 10.7 | 5.27 | 3.0 | 16.1 | 0.8 |

# Milling Insert

## APKT09(멀티용)인서트 / APKT09(MT)Insert

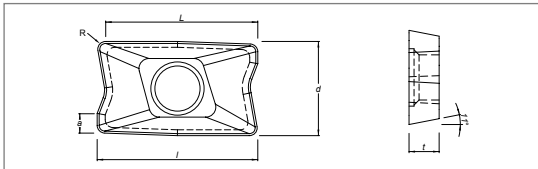


- 적용 HOLDER : ENCC

INSERT TYPE → [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |      |     |     |     |     |
|---------------|------------------|------|-----|-----|-----|-----|
|               | l                | d    | t   | a   | L   | r   |
| APKT09T304-MT | 10.5             | 6.20 | 3.8 | 1.0 | 8.8 | 0.4 |

## APKT09(강용)인서트 / APKT09(EM)Insert

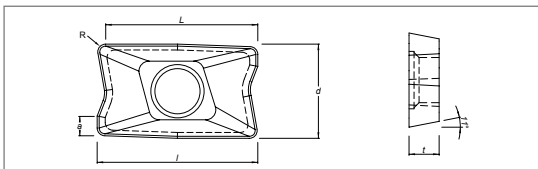


- 적용 HOLDER : ENCC

INSERT TYPE → [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |      |     |     |     |     |
|---------------|------------------|------|-----|-----|-----|-----|
|               | l                | d    | t   | a   | L   | r   |
| APKT09T304-EM | 10.5             | 6.20 | 3.8 | 1.0 | 8.8 | 0.4 |

## APKT09(써스)인서트 / APKT09(SU)Insert

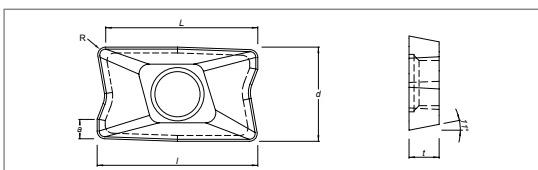


- 적용 HOLDER : ENCC

INSERT TYPE → [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |      |     |     |     |     |
|---------------|------------------|------|-----|-----|-----|-----|
|               | l                | d    | t   | a   | L   | r   |
| APKT09T304-SU | 10.5             | 6.20 | 3.8 | 1.0 | 8.8 | 0.4 |

## APKT09(알루미늄용)인서트 / APKT09(AL)Insert



- 적용 HOLDER : ENCC

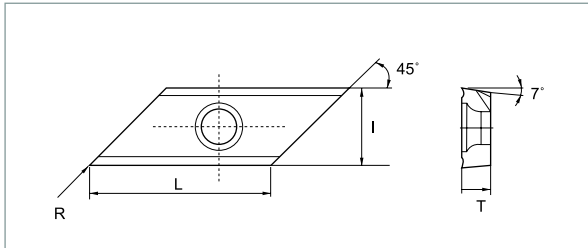
INSERT TYPE → [WIDIN](#)

| Part No.      | 치수(Dimensions)mm |      |     |     |     |     |
|---------------|------------------|------|-----|-----|-----|-----|
|               | l                | d    | t   | a   | L   | r   |
| APKT09T304-AL | 10.5             | 6.20 | 3.8 | 1.0 | 8.8 | 0.4 |



# Milling Insert

## 챔퍼링 밀 인서트 / Champering Mill Insert

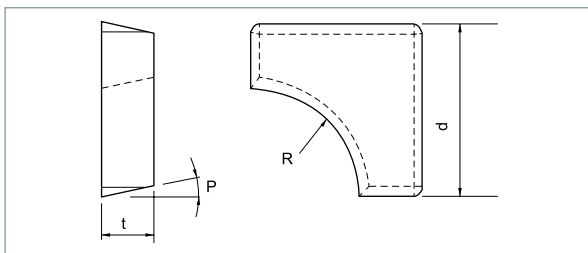


- 적용 HOLDER : CCCC

INSERT TYPE → [WIDIN](#)

| Part No.             | 치수(Dimensions)mm |      |     |     |
|----------------------|------------------|------|-----|-----|
|                      | L                | I    | T   | R   |
| XCET310404ER-비코팅     | 22               | 12.7 | 4.5 | 0.4 |
| XCET310404ER-TIALN코팅 | 22               | 12.7 | 4.5 | 0.4 |

## 라운드링 인서트 / Rounding Insert

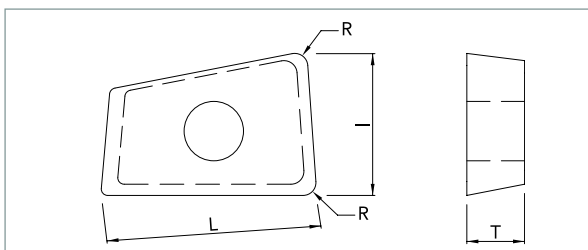


- 적용 HOLDER : 역R캣타

INSERT TYPE → [WIDIN](#)

| Part No. | 치수(Dimensions)mm |        |      |     |
|----------|------------------|--------|------|-----|
|          | R                | d      | t    | P°  |
| SPKR-R   | 10               | 15.875 | 4.76 | 11° |

## 정삭 밀 인서트 / Finishing Mill Insert



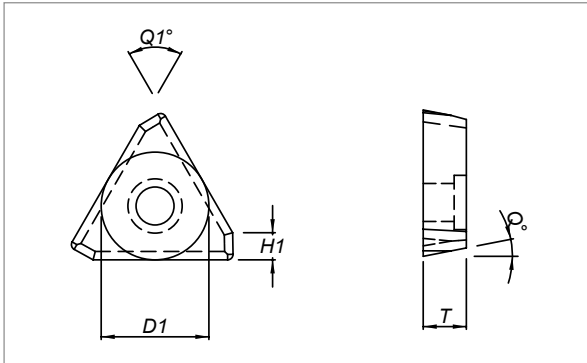
- 적용 HOLDER : AQXC

INSERT TYPE → [WIDIN](#)

| Part No.  | 치수(Dimensions)mm |     |     |     |
|-----------|------------------|-----|-----|-----|
|           | L                | I   | T   | R   |
| QOMT0830R | 8.4              | 5.5 | 3   | 0.8 |
| QOMT1035R | 10.6             | 7   | 3.5 | 0.8 |
| QOMT1342R | 13.1             | 8.7 | 4.2 | 0.8 |
| QOMT1651R | 16.5             | 11  | 5.1 | 0.8 |

# Milling Insert

## CBN 인서트 / CBN Insert

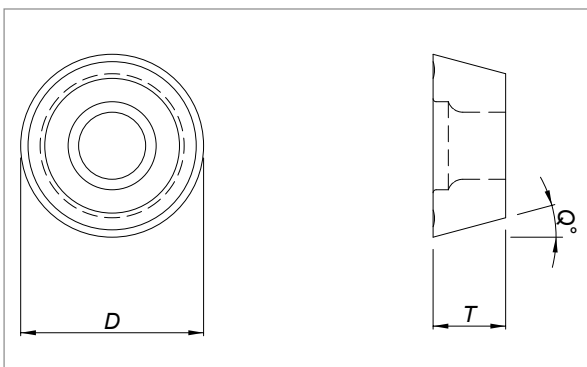


- 적용 HOLDER : 찍기캣타

INSERT TYPE → [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |      |    |     |     | 재질  | 코팅  |
|----------------|------------------|------|----|-----|-----|-----|-----|
|                | D1               | T    | H1 | Q   | Q1  |     |     |
| TPEN130302-P   | 7.94             | 3.18 | 2  | 11° | 60° | P   | TIN |
| TPEN130302-CBN | 7.94             | 3.18 | 2  | 11° | 60° | CBN | O   |

## 라운드 밀 인서트 / Round Mill Insert



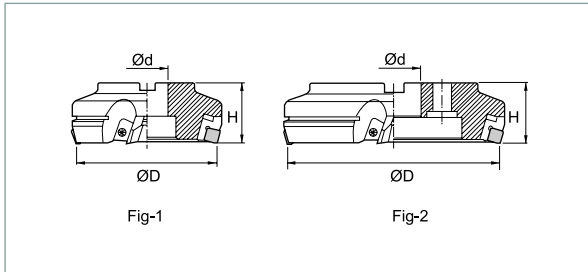
- 적용 HOLDER : RMCC, C-RDT

INSERT TYPE → [WIDIN](#)

| Part No.    | 치수(Dimensions)mm |      |     | 코팅         |
|-------------|------------------|------|-----|------------|
|             | D                | T    | Q   |            |
| RDMW0802(Z) | 8                | 2.38 | 15° | TIN, TIALN |
| RDMW10T3(Z) | 10               | 3.97 |     |            |
| RDMW1204(Z) | 12               | 4.76 |     |            |
| RDMW1605(Z) | 16               | 5.56 |     |            |

# Face-Cutter

## 헤이스 컷타 -75° / Face Cutter -75°

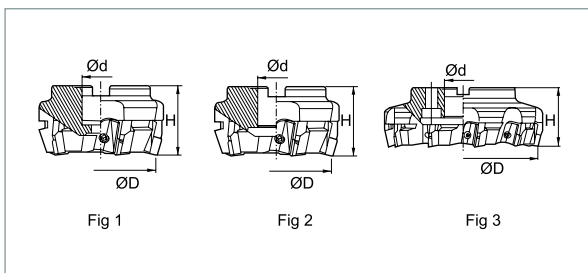


### - BORE MOUNTED TYPE

INSERT TYPE → [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |        |    | Fig |    | 사용 인서트                      |
|----------------|------------------|--------|----|-----|----|-----------------------------|
|                | D                | d      | H  |     |    |                             |
| S415SP-080R-15 | 80               | 25.4   | 50 | 1   | 5  | SPKN1504EDR<br>SPKN1504EDTR |
| S415SP-100R-15 | 100              | 31.75  | 50 | 1   | 6  |                             |
| S415SP-125R-15 | 125              | 38.1   | 50 | 1   | 8  |                             |
| S415SP-160R-15 | 160              | 50.8   | 50 | 1   | 10 |                             |
| S415SP-200R-15 | 200              | 47.625 | 63 | 2   | 16 |                             |
| S415SP-250R-15 | 250              | 47.625 | 63 | 2   | 16 |                             |
| S415SP-315R-15 | 315              | 47.625 | 63 | 2   | 20 |                             |

## 헤이스 컷타 -75° / Face Cutter -75°



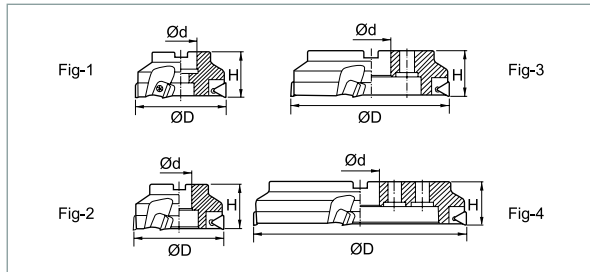
### - BORE MOUNTED TYPE

INSERT TYPE → [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |        |    | Fig |    | 사용 인서트                      |
|----------------|------------------|--------|----|-----|----|-----------------------------|
|                | D                | d      | H  |     |    |                             |
| S415SP-80R-12  | 80               | 25.4   | 50 | 1   | 5  | SPKN1203EDR<br>SPKN1203EDTR |
| S415SP-100R-12 | 100              | 31.75  | 50 | 2   | 6  |                             |
| S415SP-125R-12 | 125              | 38.1   | 63 | 2   | 8  |                             |
| S415SP-160R-12 | 160              | 50.8   | 63 | 2   | 10 |                             |
| S415SP-200R-12 | 200              | 47.625 | 63 | 3   | 12 |                             |
| S415SP-250R-15 | 250              | 47.625 | 63 | 3   | 16 |                             |
| S415SP-315R-12 | 315              | 47.625 | 63 | 3   | 20 |                             |

# Face-Cutter

## 헤이스 컷타 -90° / Face Cutter -90°

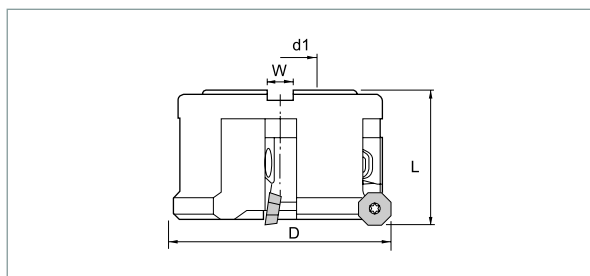


### - BORE MOUNTED TYPE

INSERT TYPE → [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |        |    | Fig |    | 사용 인서트 |
|----------------|------------------|--------|----|-----|----|--------|
|                | D                | d      | H  |     |    |        |
| T400TR-80R-22  | 80               | 25.4   | 50 | 1   | 4  |        |
| T400TP-100R-22 | 100              | 31.75  | 55 | 1   | 5  |        |
| T400TP-125R-22 | 125              | 38.1   | 63 | 2   | 6  |        |
| T400TP-160R-22 | 160              | 50.8   | 63 | 3   | 8  |        |
| T400TP-200R-22 | 200              | 47.625 | 63 | 3   | 10 |        |
| T400TP-250R-22 | 250              | 47.625 | 63 | 3   | 12 |        |
| T400TP-315R-22 | 315              | 47.625 | 63 | 4   | 14 |        |

## 중절삭용 컷타 / Medium Cutting Cutter



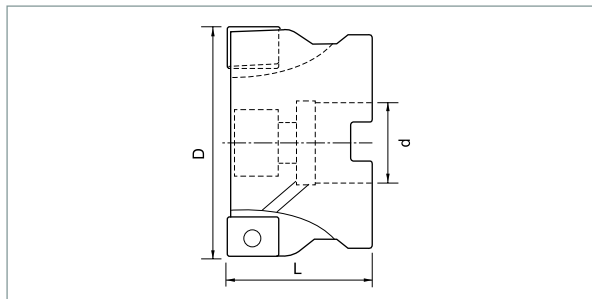
### - BORE MOUNTED TYPE

INSERT TYPE → [WIDIN](#)

| Part No.       | 치수(Dimensions)mm |    |       |      |   |          |          |      |        |     |
|----------------|------------------|----|-------|------|---|----------|----------|------|--------|-----|
|                | D                | L  | d1    | W    |   |          |          |      |        |     |
| OD FACE CUTTER | 80               | 63 | 25.4  | 9.5  | 5 | ODMT0605 | ODHA0605 | R592 | FS1030 | T20 |
| OD FACE CUTTER | 100              | 63 | 31.75 | 12.7 | 6 |          |          |      |        |     |
| OD FACE CUTTER | 130              | 63 | 38.1  | 15.9 | 8 |          |          |      |        |     |

# Face-Cutter

## IMCC

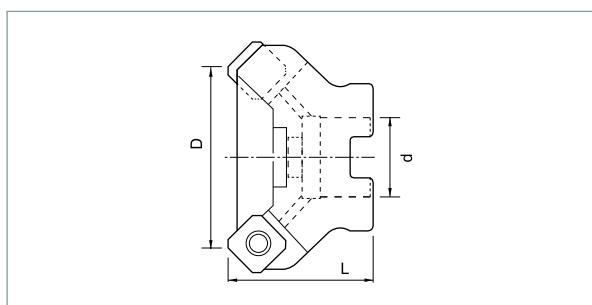


### - BORE MOUNTED TYPE

INSERT TYPE → [WALTER](#)

| Part No.          | 치수(Dimensions)mm |        |    |    |             |         |      |
|-------------------|------------------|--------|----|----|-------------|---------|------|
|                   | D                | d      | L  |    |             |         |      |
| IMCC-502240       | 50               | 22     | 40 | 3  | ADMT 160608 | FS-1458 | T-15 |
| IMCC-632240       | 63               | 22     | 40 | 4  |             |         |      |
| IMCC-8025,450     | 80               | 25,4   | 50 | 5  |             |         |      |
| IMCC-10031,7550   | 100              | 31,75  | 50 | 5  |             |         |      |
| IMCC-12538,150    | 125              | 38,1   | 50 | 7  |             |         |      |
| IMCC-16050,850    | 160              | 50,8   | 50 | 8  |             |         |      |
| IMCC-20047,625 63 | 200              | 47,625 | 63 | 10 |             |         |      |

## CMCC



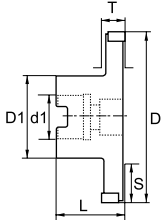
### - BORE MOUNTED TYPE

INSERT TYPE → [WALTER](#)

| Part No.          | 치수(Dimensions)mm |        |    |    |              |         |      |
|-------------------|------------------|--------|----|----|--------------|---------|------|
|                   | D                | d      | L  |    |              |         |      |
| CMCC-502240       | 50               | 22     | 40 | 4  | SN.X 1205... | FS-1458 | T-15 |
| CMCC-632240       | 63               | 22     | 40 | 6  |              |         |      |
| CMCC-8025,450     | 80               | 25,4   | 50 | 7  |              |         |      |
| CMCC-10031,7550   | 100              | 31,75  | 50 | 8  |              |         |      |
| CMCC-12538,150    | 125              | 38,1   | 63 | 10 |              |         |      |
| CMCC-16058,863    | 160              | 50,8   | 63 | 12 |              |         |      |
| CMCC-20047,625 63 | 200              | 47,625 | 63 | 18 |              |         |      |

# Cylinder Side Cutter

## 싸이드 밀링 컷타 / Side Milling Cutter

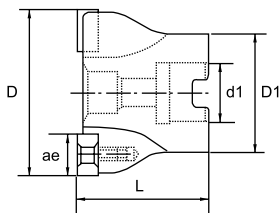


### - BORE MOUNTED TYPE

INSERT TYPE → [WALTER](#)

| Part No.        | 치수(Dimensions)mm |    |    |       |    |    |    |            |            |     |
|-----------------|------------------|----|----|-------|----|----|----|------------|------------|-----|
|                 | D                | L  | D1 | d1    | T  | S  |    |            |            |     |
| Cylinder Cutter | 100              | 50 | 50 | 25.4  | 10 | 23 | 10 | CNMU080508 | M3 FS 1015 | T8  |
|                 | 100              | 50 | 50 | 25.4  | 12 | 23 | 10 | CNMU080508 | M3 FS 1015 | T8  |
|                 | 125              | 50 | 60 | 31.75 | 10 | 31 | 12 | CNMU080508 | M3 FS 1015 | T8  |
|                 | 125              | 50 | 60 | 31.75 | 12 | 31 | 12 | CNMU080508 | M3 FS 1015 | T8  |
|                 | 160              | 52 | 80 | 38.1  | 12 | 38 | 14 | CNMU080508 | M3 FS 1015 | T8  |
|                 | 160              | 52 | 80 | 38.1  | 16 | 38 | 12 | CNMU120608 | M4 FS 1007 | T15 |
|                 | 200              | 55 | 80 | 50.8  | 16 | 48 | 14 | CNMU120608 | M4 FS 1007 | T15 |
|                 | 200              | 55 | 80 | 50.8  | 20 | 48 | 14 | CNMU120608 | M4 FS 1007 | T15 |

## 써클라 페이스 컷타 / Circular Face Cutter



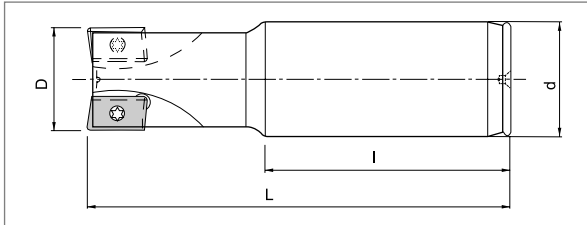
### - BORE MOUNTED TYPE

INSERT TYPE → [WALTER](#)

| Part No.             | 치수(Dimensions)mm |      |    |    |   |            |            |     |
|----------------------|------------------|------|----|----|---|------------|------------|-----|
|                      | D                | d1   | L  | D1 |   |            |            |     |
| Circular Face Cutter | 40               | 16   | 40 | 35 | 3 | CNMU080508 | M3 FS 1015 | T8  |
|                      | 50               | 22   | 50 | 47 | 3 | CNMU120608 | M4 FS 1007 | T15 |
|                      | 63               | 22   | 50 | 60 | 4 | CNMU120608 | M4 FS 1007 | T15 |
|                      | 80               | 25.4 | 50 | 70 | 5 | CNMU120608 | M4 FS 1007 | T15 |

# Key-Home Cutter

## 키-홈 전용 컷타 / Key-Home Cutter

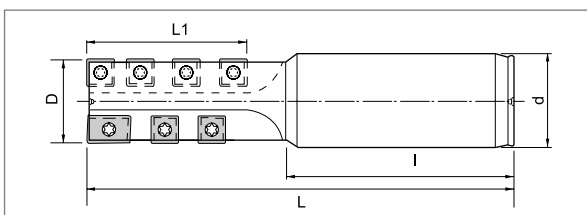


### - WELDON SHANK TYPE

INSERT TYPE → [WIDIN](#), [WALTER](#), [TAEGU-TEC](#)

| Part No.     | 치수(Dimensions)mm |    |     |    |   |          |                 |       |
|--------------|------------------|----|-----|----|---|----------|-----------------|-------|
|              | D                | d  | L   | I  |   |          |                 |       |
| ENCC-2416120 | 24               | 25 | 120 | 75 | 2 | AP..1604 | ST4084-60<br>M4 | TX-15 |
| ENCC-2716120 | 27               | 25 | 120 | 75 |   |          |                 |       |
| ENCC-2916120 | 29               | 32 | 120 | 75 |   |          |                 |       |
| ENCC-3116120 | 31               | 32 | 120 | 75 |   |          |                 |       |
| ENCC-3516120 | 35               | 32 | 120 | 75 |   |          |                 |       |

## 키-홈 전용 컷타, 윤곽컷타 / Key-Home Cutter, Outside Cutter

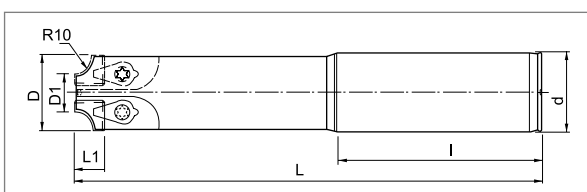


### - WELDON SHANK TYPE

INSERT TYPE → [WIDIN](#), [WALTER](#), [TAEGU-TEC](#)

| Part No.             | 치수(Dimensions)mm |    |     |    |    |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT |  |  |  |
|----------------------|------------------|----|-----|----|----|-------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                      | D                | d  | L   | L1 | I  |                                                                                     |                  |                                                                                      |                  |                                                                                       |                                                                                       |                                                                                       |
| KEY HOME-D27x32x150L | 27               | 32 | 150 | 70 | 80 | 2                                                                                   | 1                |  | 6                |  | ST408-43 M4                                                                           | TX-15                                                                                 |
| KEY HOME-D29x32x150L | 29               | 32 | 150 | 70 | 80 |                                                                                     |                  |                                                                                      |                  |                                                                                       |                                                                                       |                                                                                       |
| KEY HOME-D29x32x160L | 29               | 32 | 160 | 80 | 80 |                                                                                     |                  |                                                                                      |                  |                                                                                       |                                                                                       |                                                                                       |
| KEY HOME-D29x32x200L | 29               | 32 | 200 | 80 | 80 |                                                                                     |                  |                                                                                      |                  |                                                                                       |                                                                                       |                                                                                       |

## 코너 R가공 홀더 / Coner R Holder



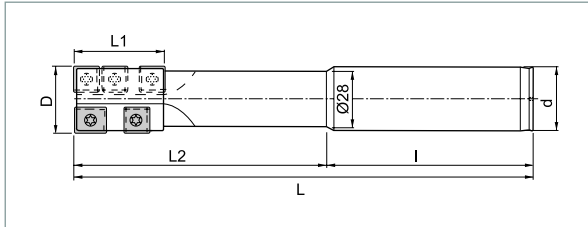
### - WELDON SHANK TYPE

INSERT TYPE → [WIDIN](#)

| Part No. | 치수(Dimensions)mm |    |    |     |     |   |          |      |
|----------|------------------|----|----|-----|-----|---|----------|------|
|          | D                | D1 | d  | L   | I   |   |          |      |
| 역R-컷타    | 40               | 20 | 42 | 250 | 110 | 2 | SPKR-10R | TP22 |

# Relief-Cutter

## 릴리프-컷타 / Relief Cutter

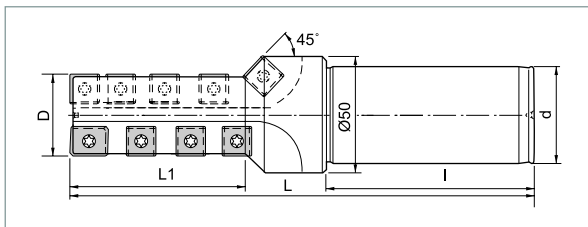


### - WELDON SHANK TYPE

INSERT TYPE → [WIDIN](#), [WALTER](#), [TAEGU-TEC](#)

| Part No.           | 치수(Dimensions)mm |    |     |    |     |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT                                                                  |  |  |  |       |
|--------------------|------------------|----|-----|----|-----|-----------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
|                    | D                | d  | L   | L1 | I   |                                                                                   |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |       |
| RELIEF-D15x10x100L | 15               | 12 | 100 | 10 | 52  | 2                                                                                 | 1                |  | 2                                                                                 | SPMG<br>060204                                                                    | ST2204-55<br>M2,2                                                                  | TX-06                                                                               |       |
| RELIFE-D19x10x100L | 19               | 16 | 100 | 10 | 52  |                                                                                   |                  |                                                                                   | 2                                                                                 |                                                                                   |                                                                                    |                                                                                     |       |
| RELIFE-D33x25x230L | 33               | 32 | 230 | 25 | 100 |                                                                                   |                  |                                                                                   |  | 2                                                                                 | SPMT<br>120408                                                                     | ST511-43<br>M5                                                                      | TX-20 |
| RELIFE-D33x45x230L | 33               | 32 | 230 | 45 | 100 |                                                                                   |                  |                                                                                   |                                                                                   | 4                                                                                 |                                                                                    |                                                                                     |       |
| RELIFE-D33x45x300L | 33               | 32 | 300 | 45 | 100 |                                                                                   |                  |                                                                                   |                                                                                   | 4                                                                                 |                                                                                    |                                                                                     |       |
| RELIFE-D34x25x230L | 34               | 32 | 230 | 25 | 100 |                                                                                   |                  |                                                                                   |                                                                                   | 2                                                                                 |                                                                                    |                                                                                     |       |
| RELIFE-D34x35x230L | 34               | 32 | 230 | 35 | 100 |                                                                                   |                  |                                                                                   |                                                                                   | 3                                                                                 |                                                                                    |                                                                                     |       |
| RELIFE-D34x45x230L | 34               | 32 | 230 | 45 | 100 |                                                                                   |                  |                                                                                   |                                                                                   | 4                                                                                 |                                                                                    |                                                                                     |       |
| RELIFE-D34x45x300L | 34               | 32 | 300 | 45 | 100 |                                                                                   |                  |                                                                                   |                                                                                   | 4                                                                                 |                                                                                    |                                                                                     |       |
| RELIFE-D35x25x230L | 35               | 32 | 230 | 25 | 100 |                                                                                   |                  |                                                                                   |                                                                                   | 2                                                                                 |                                                                                    |                                                                                     |       |
| RELIFE-D35x45x230L | 35               | 32 | 230 | 45 | 100 |                                                                                   |                  |                                                                                   |                                                                                   | 4                                                                                 |                                                                                    |                                                                                     |       |
| RELIFE-D35x45x300L | 35               | 32 | 300 | 45 | 100 |                                                                                   |                  |                                                                                   |                                                                                   | 4                                                                                 |                                                                                    |                                                                                     |       |
| RELIFE-D54x45x265L | 54               | 42 | 265 | 45 | 220 | 4                                                                                 | 2                | 10                                                                                |                                                                                   |                                                                                   |                                                                                    |                                                                                     |       |

## U-홈컷타 / U-Home Cutter



### - WELDON SHANK TYPE

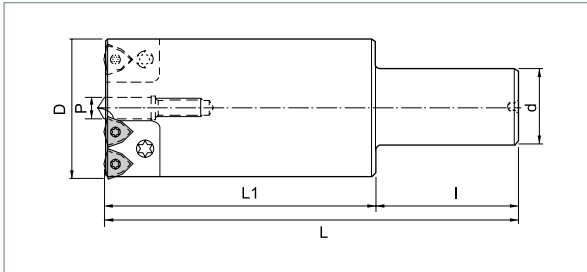
INSERT TYPE → [WIDIN](#), [WALTER](#), [TAEGU-TEC](#)

| Part No.           | 치수(Dimensions)mm |    |     |    |    |  | NO.OFF<br>INSERT |  | NO.OFF<br>INSERT |  |  |  |
|--------------------|------------------|----|-----|----|----|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    | D                | d  | L   | L1 | I  |                                                                                     |                  |                                                                                     |                  |                                                                                       |                                                                                       |                                                                                       |
| U-HOME-D32x42x200L | 32               | 42 | 200 | 75 | 90 | 2                                                                                   | 1                | ZPMT-1504WM                                                                         | 7                | SPMT<br>120408                                                                        | ST511-43<br>M5                                                                        | TX-20                                                                                 |
| U-HOME-D34x42x200L | 34               | 42 | 200 | 75 | 90 |                                                                                     |                  |                                                                                     | 8                |                                                                                       |                                                                                       |                                                                                       |
| U-HOME-D35x42x200L | 35               | 42 | 200 | 75 | 90 |                                                                                     |                  |                                                                                     |                  |                                                                                       |                                                                                       |                                                                                       |
| U-HOME-D39x42x200L | 39               | 42 | 200 | 75 | 90 |                                                                                     |                  |                                                                                     |                  |                                                                                       |                                                                                       |                                                                                       |
| U-HOME-D40x42x200L | 40               | 42 | 200 | 75 | 90 |                                                                                     |                  |                                                                                     |                  |                                                                                       |                                                                                       |                                                                                       |
| U-HOME-D44x42x200L | 44               | 42 | 200 | 75 | 90 |                                                                                     |                  |                                                                                     |                  |                                                                                       |                                                                                       |                                                                                       |
| U-HOME-D45x42x200L | 45               | 42 | 200 | 75 | 90 |                                                                                     |                  |                                                                                     |                  |                                                                                       |                                                                                       |                                                                                       |



# Post U-Drill

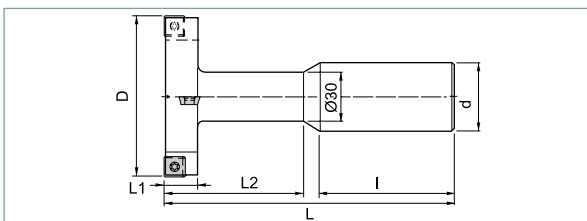
## 포스트 유드릴 / Post U-Drill



### - WELDON SHANK TYPE

| Part No.                  | 치수(Dimensions)mm |    |     |    |    |         |                        |      |
|---------------------------|------------------|----|-----|----|----|---------|------------------------|------|
|                           | D                | P  | L1  | I  | d  |         |                        |      |
| 포스트 유드릴<br>Post - U Drill | 56               | 12 | 270 | 90 | 42 | WCMT 08 | M4.5 ST4510-60<br>M4.5 | T-20 |
|                           | 58               | 12 |     |    |    |         |                        |      |
|                           | 68               | 16 |     |    |    |         |                        |      |
|                           | 76               | 12 |     |    |    |         |                        |      |
|                           | 78               | 12 |     |    |    |         |                        |      |
|                           | 88               | 16 |     |    |    |         |                        |      |
|                           | 96               | 16 |     |    |    |         |                        |      |
|                           | 98               | 16 |     |    |    |         |                        |      |

## T-커파 / T-Cutter



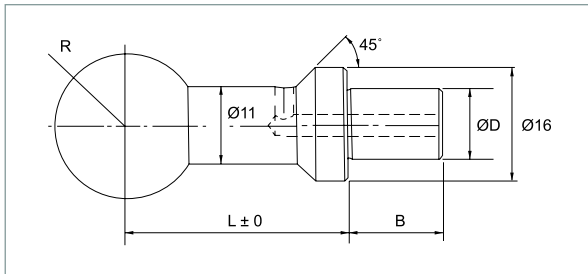
### - WELDON SHANK TYPE

INSERT TYPE → [WIDIN](#), [WALTER](#), [TAEKU-TEC](#)

| Part No.         | 치수(Dimensions)mm |    |    |     |    |  |  |  |  |  |  |  |
|------------------|------------------|----|----|-----|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|--|--|
|                  | D                | L1 | d  | L   | I  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
| T-캇타<br>T-Cutter | D80              | 22 | 42 | 180 | 95 | 4                                                                                   | SPMT1204                                                                              | ST511-43<br>M5                                                                        | TX-20                                                                                 |  |  |  |
|                  | D100             |    |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
|                  | D125             |    |    |     |    | 6                                                                                   |                                                                                       |                                                                                       |                                                                                       |  |  |  |
|                  | D150             |    |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |
|                  | D180             |    |    |     |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |  |

# Ball Gauge

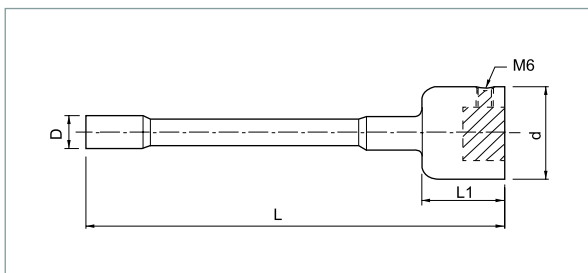
## 볼 게이지 / Ball Gauge



### - WELDON SHANK TYPE

| Part No.            | 치수(Dimensions)mm |         |        |    |
|---------------------|------------------|---------|--------|----|
|                     | R                | D       | L      | B  |
| 볼 게이지<br>Ball Gauge | 10               | 8-0.04  | 20(30) | 8  |
|                     |                  | 8-0.02  |        |    |
|                     |                  | 8±0     |        |    |
|                     |                  | 8+0.02  |        |    |
|                     |                  | 8+0.04  |        |    |
|                     |                  | 10-0.04 |        | 10 |
|                     |                  | 10-0.02 |        |    |
|                     |                  | 10±0    |        |    |
|                     |                  | 10+0.02 |        |    |
|                     |                  | 10+0.04 |        |    |

## 외아면 셋팅바 / Outside Setting Bar

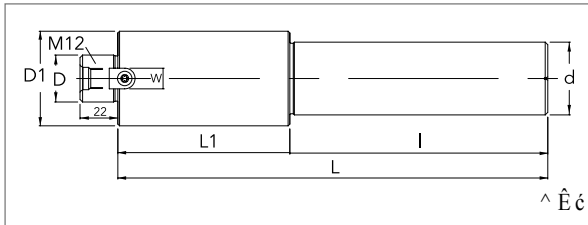


### - WELDON SHANK TYPE

| Part No.                       | 치수(Dimensions)mm |    |     |                |
|--------------------------------|------------------|----|-----|----------------|
|                                | D                | d  | L   | L <sub>1</sub> |
| 외아면 셋팅바<br>Outside Setting Bar | 12.5             | 35 | 100 | 30             |
|                                | 12.5             | 35 | 150 | 30             |

# Post Medium Cutting Cutte

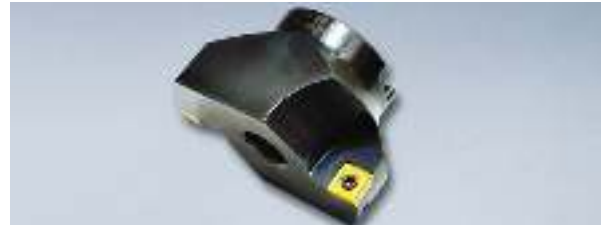
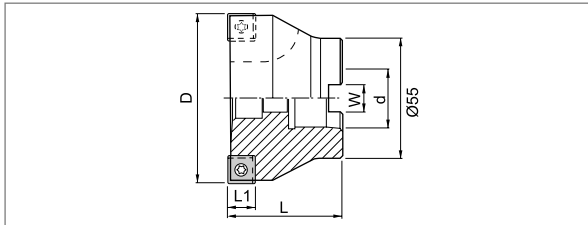
## 중삭캐타 아바(Medium Cutter Arbor) / SSCC캐타 아바(SSCC Cutter Arbor)



### - WELDON SHANK TYPE

| Part No.                               | 치수(Dimensions)mm |    |    |     |     |     |     |
|----------------------------------------|------------------|----|----|-----|-----|-----|-----|
|                                        | D                | D1 | d  | L   | L1  | I   | W   |
| Medium Cutter Arbor-ST42x27x315L       | 27               | 55 | 42 | 260 | 110 | 150 | 12  |
| Medium Cutter Arbor-ST42x27x365L       | 27               | 55 |    | 310 | 160 |     | 12  |
| Medium Cutter Arbor-ST42xD63x25.4x250L | 25.4             | 50 |    | 200 | 50  |     | 9.5 |
| Medium Cutter Arbor-ST42xD63x25.4x300L | 25.4             | 50 |    | 250 | 100 |     | 9.5 |
| Medium Cutter Arbor-ST42xD80x25.4x250L | 25.4             | 65 |    | 200 | 50  |     | 9.5 |
| Medium Cutter Arbor-ST42xD80x25.4x300L | 25.4             | 65 |    | 250 | 100 |     | 9.5 |

## 중삭보링캐타 / Medium Boring Cutter



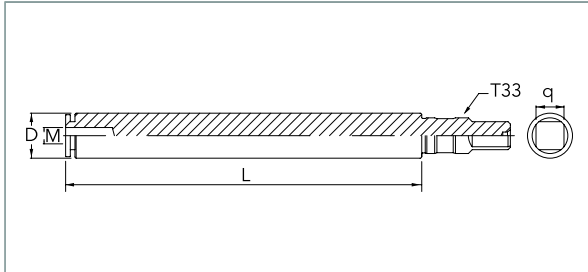
### - BORE MOUNTED TYPE

INSERT TYPE → [WIDIN](#), [WALTER](#), [TAEGU-TEC](#)

| Part No.                         | 치수(Dimensions)mm |    |    |    |   |          |                |       |
|----------------------------------|------------------|----|----|----|---|----------|----------------|-------|
|                                  | D                | d  | L  | W  |   |          |                |       |
| 황삭보링캐타<br>Roughing Boring Cutter | D58              | 27 | 55 | 12 | 2 | SPMT1204 | ST511-43<br>M5 | TX-20 |
|                                  | D63              |    |    |    |   |          |                |       |
|                                  | D68              |    |    |    |   |          |                |       |
|                                  | D78              |    |    |    |   |          |                |       |
|                                  | D88              |    |    |    |   |          |                |       |
|                                  | D98              |    |    |    |   |          |                |       |
|                                  | D103             |    |    |    |   |          |                |       |
|                                  | D108             |    |    |    |   |          |                |       |
|                                  | D113             |    |    |    |   |          |                |       |
|                                  | D118             |    |    |    |   |          |                |       |
| 중삭보링캐타<br>Medium Boring Cutter   | D123             |    |    |    |   |          |                |       |
|                                  | D59.4            |    |    |    |   |          |                |       |
|                                  | D64.4            |    |    |    |   |          |                |       |
|                                  | D69.4            |    |    |    |   |          |                |       |
|                                  | D79.4            |    |    |    |   |          |                |       |
|                                  | D89.4            |    |    |    |   |          |                |       |
|                                  | D99.4            |    |    |    |   |          |                |       |
|                                  | D104.4           |    |    |    |   |          |                |       |
|                                  | D109.4           |    |    |    |   |          |                |       |
|                                  | D119.4           |    |    |    |   |          |                |       |

# Tapping Chuck

## 레이디알 탭핑척 / Radial Tapping Chuck

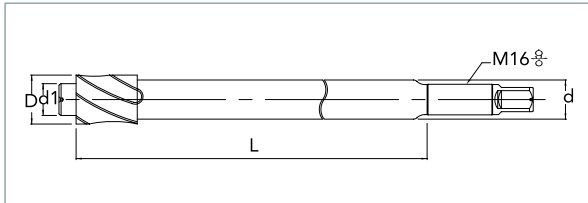


### - WELDON SHANK TYPE

| Part No.                      | 치수(Dimensions)mm |               |     |     |                          |
|-------------------------------|------------------|---------------|-----|-----|--------------------------|
|                               | D                | M             | L   | T33 | <input type="checkbox"/> |
| Radial Tapping Chuck D19x200L | 19               | M6,M8,M10,M12 | 200 | M20 | 12                       |
| Radial Tapping Chuck D19x300L | 19               | M6,M8,M10,M12 | 300 | M20 | 12                       |
| Radial Tapping Chuck D19x400L | 19               | M6,M8,M10,M12 | 400 | M20 | 12                       |
| Radial Tapping Chuck D31x200L | 31               | M16,M20,M24   | 200 | M24 | 15                       |
| Radial Tapping Chuck D31x300L | 31               | M16,M20,M24   | 300 | M24 | 15                       |
| Radial Tapping Chuck D31x400L | 31               | M16,M20,M24   | 400 | M24 | 15                       |

# Tapping Chuck

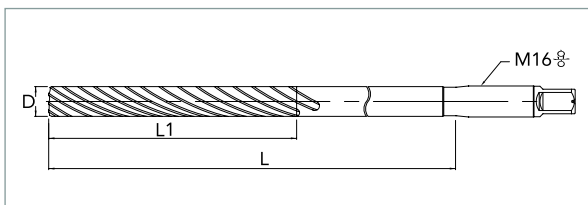
## 카운터 보어 / Counter Bore



### - WELDON SHANK TYPE

| Part No.                | 치수(Dimensions)mm |    |    |     |      |      |
|-------------------------|------------------|----|----|-----|------|------|
|                         | D                | d1 | d  | L   | 규격   | M    |
| Counter Bore D14x25xM16 | 14               | 9  | 12 | 200 | M08용 | M16용 |
| Counter Bore D14x25xM16 |                  |    |    | 300 |      |      |
| Counter Bore D14x25xM16 |                  |    |    | 400 |      |      |
| Counter Bore D18x25xM16 | 18               | 11 | 16 | 200 | M10용 |      |
| Counter Bore D18x25xM16 |                  |    |    | 300 |      |      |
| Counter Bore D18x25xM16 |                  |    |    | 400 |      |      |
| Counter Bore D20x25xM16 | 20               | 13 |    | 200 | M12용 |      |
| Counter Bore D20x25xM16 |                  |    |    | 300 |      |      |
| Counter Bore D20x25xM16 |                  |    |    | 400 |      |      |
| Counter Bore D27x25xM16 | 27               | 17 |    | 200 | M16용 |      |
| Counter Bore D27x25xM16 |                  |    |    | 300 |      |      |
| Counter Bore D27x25xM16 |                  |    |    | 400 |      |      |

## 헬릭스 리머 / Helix Reamer

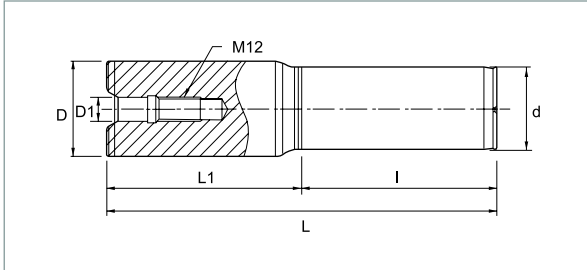


### - WELDON SHANK TYPE

| Part No.                 | 치수(Dimensions)mm |     |      |      |      |
|--------------------------|------------------|-----|------|------|------|
|                          | D                | L1  | L    | 규격   | M    |
| Helix Reamer D06x100xM16 | 6                | 100 | 200  | M06용 | M16용 |
| Helix Reamer D06x100xM16 |                  |     | 300  |      |      |
| Helix Reamer D06x100xM16 |                  |     | 400  |      |      |
| Helix Reamer D08x100xM16 | 200              |     | M08용 |      |      |
| Helix Reamer D08x100xM16 | 300              |     |      |      |      |
| Helix Reamer D08x100xM16 | 400              |     |      |      |      |
| Helix Reamer D10x100xM16 | 200              |     | M10용 |      |      |
| Helix Reamer D10x100xM16 | 300              |     |      |      |      |
| Helix Reamer D10x100xM16 | 400              |     |      |      |      |
| Helix Reamer D12x100xM16 | 200              |     | M12용 |      |      |
| Helix Reamer D12x100xM16 | 300              |     |      |      |      |
| Helix Reamer D12x100xM16 | 400              |     |      |      |      |
| Helix Reamer D16x100xM16 | 200              |     | M16용 |      |      |
| Helix Reamer D16x100xM16 | 300              |     |      |      |      |
| Helix Reamer D16x100xM16 | 400              |     |      |      |      |

# Post Medium Cutting Cutter Arbor

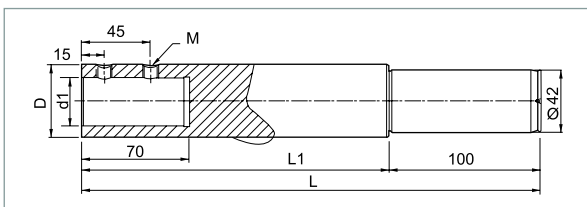
## FPCC-ST 아바 / FPCC-ST Arbor



### - WELDON SHANK TYPE

| Part No.        | 치수(Dimensions)mm |      |    |     |     |     |
|-----------------|------------------|------|----|-----|-----|-----|
|                 | D                | D1   | d  | L   | L1  | I   |
| FPCC-ST42200-50 | 48               | 12.5 | 42 | 200 | 100 | 100 |
| FPCC-ST42250-50 |                  |      |    | 250 | 150 |     |
| FPCC-ST42300-50 |                  |      |    | 300 | 200 |     |
| FPCC-ST42200-63 | 60               | 16.5 |    | 200 | 100 |     |
| FPCC-ST42250-63 |                  |      |    | 250 | 150 |     |
| FPCC-ST42300-63 |                  |      |    | 300 | 200 |     |

## 연결아바 / Extention Arbor

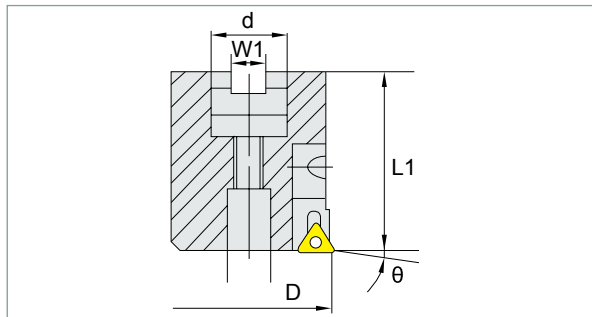


### - WELDON SHANK TYPE

| Part No.                     | 치수(Dimensions)mm |    |     |     |    |
|------------------------------|------------------|----|-----|-----|----|
|                              | D                | d1 | L1  | L   | M  |
| Extention Arbor ST42x25x300L | 50               | 25 | 300 | 200 | 10 |
| Extention Arbor ST42x25x400L |                  |    | 400 | 300 |    |
| Extention Arbor ST42x32x200L |                  | 32 | 200 | 100 |    |
| Extention Arbor ST42x32x300L |                  |    | 300 | 200 |    |
| Extention Arbor ST42x32x400L |                  |    | 400 | 300 |    |
| Extention Arbor ST42x32x500L |                  |    | 500 | 400 |    |
| Extention Arbor ST42x40x200L | 63               | 40 | 200 | 100 | 12 |
| Extention Arbor ST42x40x300L |                  |    | 300 | 200 |    |
| Extention Arbor ST42x42x200L |                  | 42 | 200 | 100 |    |
| Extention Arbor ST42x42x300L |                  |    | 300 | 200 |    |
| Extention Arbor ST42x42x400L |                  |    | 400 | 300 |    |
| Extention Arbor ST42x42x500L |                  |    | 500 | 400 |    |

# Finishing Cutter

## 찍기 컷타 / Slotting Cutter

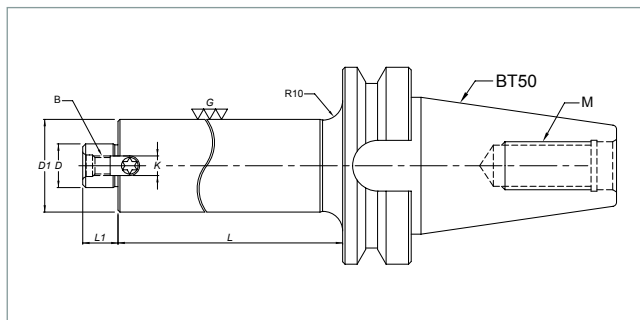


### - BORE MOUNTED TYPE

INSERT TYPE → [WIDIN](#)

| Part No.     | 치수(Dimensions)mm |    |    |      |    |   |           |                                  |
|--------------|------------------|----|----|------|----|---|-----------|----------------------------------|
|              | D                | L1 | d  | W1   | θ  |   |           |                                  |
| PPMF-050-22R | 50               | 65 | 22 | 10.4 | 1° | 4 | PPMA-013A | TPEN-130302-P<br>TPEN-130302-CBN |
| PPMF-063-22R | 63               | 65 | 22 | 10.4 | 1° | 6 |           |                                  |
| PPMF-080-27R | 80               | 55 | 27 | 12.4 | 1° | 8 |           |                                  |

## 찍기 컷타 / Slotting Cutter

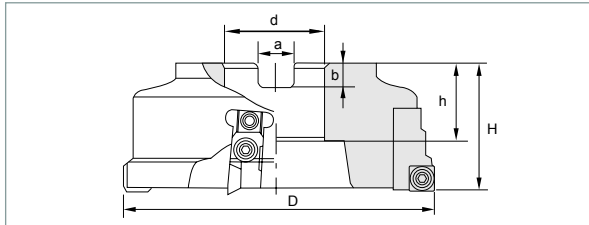


### - MODULAR SHANK TYPE

| Part No.          | 치수(Dimensions)mm |    |     |    |    |     |     |
|-------------------|------------------|----|-----|----|----|-----|-----|
|                   | D                | D1 | L   | L1 | W  | B   | M   |
| BT50-PPMT-5022200 | 22               | 47 | 200 | 18 | 10 | M10 | M24 |
| BT50-PPMT-5022250 |                  |    | 250 |    |    |     |     |
| BT50-PPMT-5022300 |                  |    | 300 |    |    |     |     |
| BT50-PPMT-5022350 |                  |    | 350 |    |    |     |     |
| BT50-PPMT-5022400 |                  |    | 400 |    |    |     |     |
| BT50-PPMT-6322200 |                  | 60 | 200 |    |    |     |     |
| BT50-PPMT-6322250 |                  |    | 250 |    |    |     |     |
| BT50-PPMT-6322300 |                  |    | 300 |    |    |     |     |
| BT50-PPMT-6322350 |                  |    | 350 |    |    |     |     |
| BR50-PPMT-6322400 |                  |    | 400 |    |    |     |     |

# Multi Mill Cutter

## M.S. Cutter

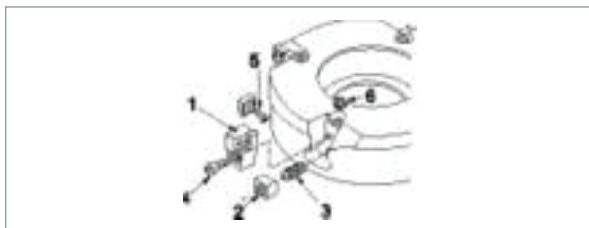


### - BORE MOUNTED TYPE

INSERT TYPE → [WIDIN](#)

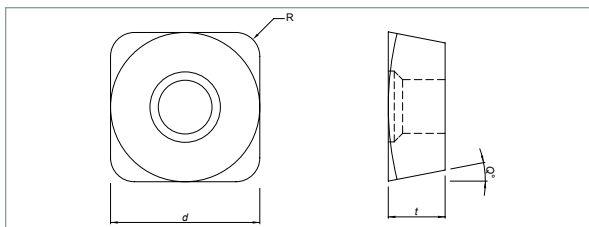
| Part No. | 치수(Dimensions)mm |        |    |      |    |   |
|----------|------------------|--------|----|------|----|---|
|          | D                | d      | L  | a    | h  |   |
| MSFR-100 | 100              | 31.75  | 65 | 12.7 | 32 | 2 |
| MSFR-125 | 125              | 38.1   |    | 15.9 | 38 | 2 |
| MSFR-160 | 160              | 50.8   |    | 19.0 | 38 | 4 |
| MSFR-200 | 200              | 47.625 |    | 25.4 | 38 | 4 |

## M.S. Cutter 부품 / M.S. Cutter Part



| Part No. | 치수(Dimensions)mm |         |            |              |             |          |
|----------|------------------|---------|------------|--------------|-------------|----------|
|          | 1(로케이트)          | 2(조정렛지) | 3(조정렛지스크류) | 4(로케이트고정스크류) | 5(인서트스크류)   | 6(고급볼트)  |
| 규격       | MSFR-1           | MSFR-2  | MSFR-3     | SCM-M5×15    | ST511-43 M5 | SCM-M5×5 |

## M.S. Cutter 사용 인서트 / M.S. Cutter Insert



### - 적용 HOLDER : BSR

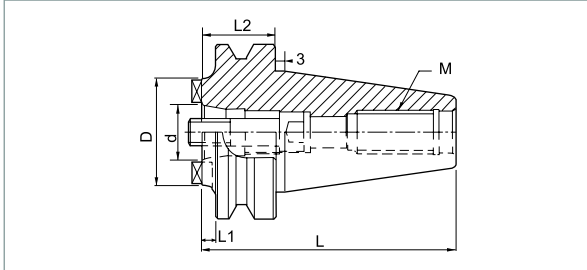
INSERT TYPE → [TUNGALOY](#)

| Part No.    | 치수(Dimensions)mm |      |     |          |
|-------------|------------------|------|-----|----------|
|             | d                | t    | R   | $\theta$ |
| SPCW070312R | 7.9              | 3.18 | 1.2 | 11°      |
| SDCW090412R | 9.525            | 4.76 | 1.2 | 15°      |
| SBCW130723R | 13.05            | 7.94 | 2.3 | 5°       |



# HMCC-MD Arbor

## BT50-WMA



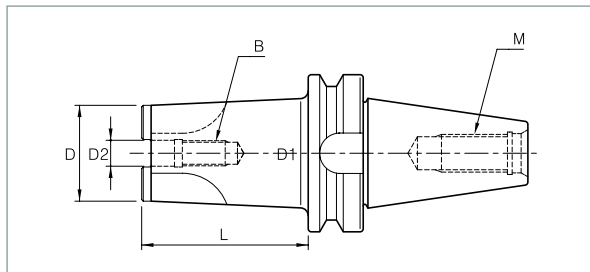
- 적용 HOLDER : BMCC-MD, TRMC-MD, TRMS-MD

| Part No.      | 치수(Dimensions)mm |     |    |     |     |       | 볼트  |
|---------------|------------------|-----|----|-----|-----|-------|-----|
|               | D                | L   | d  | L2  | L1  | M     |     |
| BT50-WMA63040 | 63               | 148 | 32 | 46  | 8   | M24   | M16 |
| BT50-WMA63065 |                  | 170 |    | 68  | 30  |       |     |
| BT50-WMA63085 |                  | 190 |    | 88  | 50  |       |     |
| BT50-WMA63115 |                  | 220 |    | 118 | 80  |       |     |
| BT50-WMA63135 |                  | 240 |    | 138 | 100 |       |     |
| NT50-WMA63043 |                  | 153 |    | 26  | 8   | 1"×8산 |     |
| NT50-WMA63065 |                  | 175 |    | 48  | 30  |       |     |
| NT50-WMA63085 |                  | 195 |    | 68  | 50  |       |     |
| NT50-WMA63115 |                  | 225 |    | 98  | 80  |       |     |
| NT50-WMA63135 |                  | 245 |    | 118 | 100 |       |     |

- 적용 HOLDER : HMCC-MD

| Part No.      | 치수(Dimensions)mm |     |    |     |     |       | 볼트  |
|---------------|------------------|-----|----|-----|-----|-------|-----|
|               | D                | L   | d  | L2  | L1  | M     |     |
| BT50-WMA80040 | 80               | 150 | 45 | 48  | 10  | M24   | M20 |
| BT50-WMA80065 |                  | 170 |    | 68  | 30  |       |     |
| BT50-WMA80085 |                  | 190 |    | 88  | 50  |       |     |
| BT50-WMA80115 |                  | 220 |    | 118 | 80  |       |     |
| BT50-WMA80135 |                  | 240 |    | 138 | 100 |       |     |
| NT50-WMA80045 |                  | 155 |    | 28  | 10  | 1"×8산 |     |
| NT50-WMA80065 |                  | 175 |    | 48  | 30  |       |     |
| NT50-WMA80085 |                  | 195 |    | 68  | 50  |       |     |
| NT50-WMA80115 |                  | 225 |    | 98  | 80  |       |     |
| NT50-WMA80135 |                  | 245 |    | 118 | 100 |       |     |

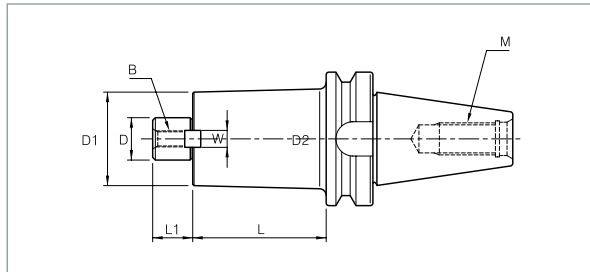
## FPM



- FPCC-5024, FPCC-5055, FPCC-6334, FPCC-6365용 아바 / Arbor

| Part No.         | D  | D1 | D2   | L   | B   | M     |
|------------------|----|----|------|-----|-----|-------|
| FPM-NT50-12.5100 | 48 | 50 | 12.5 | 100 | M12 | 1×"8산 |
| FPM-NT50-12.5150 |    |    |      | 150 |     |       |
| FPM-NT50-12.5200 |    |    |      | 200 |     |       |
| FPM-NT50-12.5250 |    |    |      | 250 |     |       |
| FPM-NT50-12.5300 |    |    |      | 300 |     |       |
| FPM-NT50-12.5350 |    |    |      | 350 |     |       |
| FPM-NT50-12.5400 |    |    |      | 400 |     |       |
| FPM-NT50-16.5100 | 60 | 63 | 16.5 | 100 | M16 | 1×"8산 |
| FPM-NT50-16.5150 |    |    |      | 150 |     |       |
| FPM-NT50-16.5200 |    |    |      | 200 |     |       |
| FPM-NT50-16.5250 |    |    |      | 250 |     |       |
| FPM-NT50-16.5300 |    |    |      | 300 |     |       |
| FPM-NT50-16.5350 |    |    |      | 350 |     |       |
| FPM-NT50-16.5400 |    |    |      | 400 |     |       |
| FPM-BT50-12.5100 | 48 | 50 | 12.5 | 100 | M12 | M24   |
| FPM-BT50-12.5150 |    |    |      | 150 |     |       |
| FPM-BT50-12.5200 |    |    |      | 200 |     |       |
| FPM-BT50-12.5250 |    |    |      | 250 |     |       |
| FPM-BT50-12.5300 |    |    |      | 300 |     |       |
| FPM-BT50-12.5350 |    |    |      | 350 |     |       |
| FPM-BT50-12.5400 |    |    |      | 400 |     |       |
| FPM-BT50-16.5100 | 60 | 63 | 16.5 | 100 | M16 | M24   |
| FPM-BT50-16.5150 |    |    |      | 150 |     |       |
| FPM-BT50-16.5200 |    |    |      | 200 |     |       |
| FPM-BT50-16.5250 |    |    |      | 250 |     |       |
| FPM-BT50-16.5300 |    |    |      | 300 |     |       |
| FPM-BT50-16.5350 |    |    |      | 350 |     |       |
| FPM-BT50-16.5400 |    |    |      | 400 |     |       |
| FPM-BT50-16.5450 |    |    |      | 450 |     |       |
| FPM-BT50-16.5500 |    |    |      | 500 |     |       |
| FPM-BT50-16.5550 |    |    |      | 550 |     |       |
| FPM-BT50-16.5600 |    |    |      | 600 |     |       |
| FPM-BT50-16.5650 |    |    |      | 650 |     |       |
| FPM-BT50-16.5700 |    |    |      | 700 |     |       |

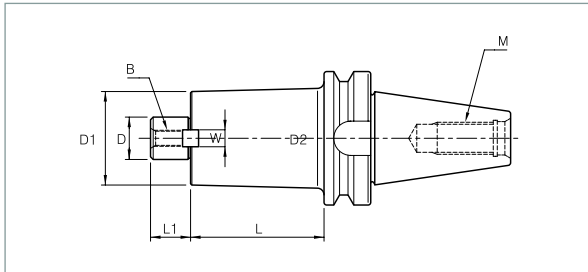
## FMC



### - 쉘 롱 용 아바 / Shell Long Arbor

| Part No.       | D  | D1 | L   | L1 | D2 | W  | B   | M     |
|----------------|----|----|-----|----|----|----|-----|-------|
| NT50-FMC-22150 | 22 | 45 | 150 | 19 | 50 | 10 | M10 | 1×"8산 |
| NT50-FMC-22200 |    |    | 200 |    |    |    |     |       |
| NT50-FMC-22250 |    |    | 250 |    |    |    |     |       |
| NT50-FMC-22300 |    |    | 300 |    |    |    |     |       |
| NT50-FMC-22350 |    |    | 350 |    |    |    |     |       |
| NT50-FMC-22400 |    |    | 400 |    |    |    |     |       |
| NT50-FMC-27150 | 27 | 50 | 150 | 21 | 60 | 12 | M12 | 1×"8산 |
| NT50-FMC-27200 |    |    | 200 |    |    |    |     |       |
| NT50-FMC-27250 |    |    | 250 |    |    |    |     |       |
| NT50-FMC-27300 |    |    | 300 |    |    |    |     |       |
| NT50-FMC-27350 |    |    | 350 |    |    |    |     |       |
| NT50-FMC-27400 |    |    | 400 |    |    |    |     |       |
| NT50-FMC-32150 | 32 | 65 | 150 | 24 | 75 | 14 | M14 | 1×"8산 |
| NT50-FMC-32200 |    |    | 200 |    |    |    |     |       |
| NT50-FMC-32250 |    |    | 250 |    |    |    |     |       |
| NT50-FMC-32300 |    |    | 300 |    |    |    |     |       |
| NT50-FMC-32350 |    |    | 350 |    |    |    |     |       |
| NT50-FMC-32400 |    |    | 400 |    |    |    |     |       |
| BT50-FMC-22150 | 22 | 45 | 150 | 19 | 50 | 10 | M10 | M24   |
| BT50-FMC-22200 |    |    | 200 |    |    |    |     |       |
| BT50-FMC-22250 |    |    | 250 |    |    |    |     |       |
| BT50-FMC-22300 |    |    | 300 |    |    |    |     |       |
| BT50-FMC-22350 |    |    | 350 |    |    |    |     |       |
| BT50-FMC-22400 |    |    | 400 |    |    |    |     |       |
| BT50-FMC-27150 | 27 | 50 | 150 | 21 | 60 | 12 | M12 | M24   |
| BT50-FMC-27200 |    |    | 200 |    |    |    |     |       |
| BT50-FMC-27250 |    |    | 250 |    |    |    |     |       |
| BT50-FMC-27300 |    |    | 300 |    |    |    |     |       |
| BT50-FMC-27350 |    |    | 350 |    |    |    |     |       |
| BT50-FMC-27400 |    |    | 400 |    |    |    |     |       |
| BT50-FMC-32150 | 32 | 65 | 150 | 24 | 75 | 14 | M14 | M24   |
| BT50-FMC-32200 |    |    | 200 |    |    |    |     |       |
| BT50-FMC-32250 |    |    | 250 |    |    |    |     |       |
| BT50-FMC-32300 |    |    | 300 |    |    |    |     |       |
| BT50-FMC-32350 |    |    | 350 |    |    |    |     |       |
| BT50-FMC-32400 |    |    | 400 |    |    |    |     |       |

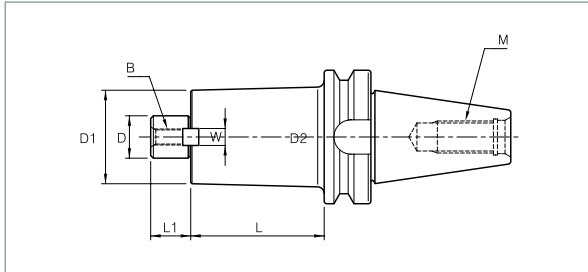
## FMC



### - 웨이스캇타 롱 아바 / Face Mill Cutter Long Arbor

| Part No.          | D     | D1  | L   | L1 | D2  | W     | B   | M     |
|-------------------|-------|-----|-----|----|-----|-------|-----|-------|
| NT50-FMC-25,4100  | 25.4  | 50  | 100 | 20 | 60  | 9.5   | M12 | 1"×8산 |
| NT50-FMC-25,4150  |       |     | 150 |    |     |       |     |       |
| NT50-FMC-25,4200  |       |     | 200 |    |     |       |     |       |
| NT50-FMC-25,4250  |       |     | 250 |    |     |       |     |       |
| NT50-FMC-25,4300  |       |     | 300 |    |     |       |     |       |
| NT50-FMC-25,4350  |       |     | 350 |    |     |       |     |       |
| NT50-FMC-25,4400  |       |     | 400 |    |     |       |     |       |
| NT50-FMC-31,75100 | 31.75 | 70  | 100 | 30 | 80  | 12.7  | M16 | 1"×8산 |
| NT50-FMC-31,75150 |       |     | 150 |    |     |       |     |       |
| NT50-FMC-31,75200 |       |     | 200 |    |     |       |     |       |
| NT50-FMC-31,75250 |       |     | 250 |    |     |       |     |       |
| NT50-FMC-31,75300 |       |     | 300 |    |     |       |     |       |
| NT50-FMC-31,75350 |       |     | 350 |    |     |       |     |       |
| NT50-FMC-31,75400 |       |     | 400 |    |     |       |     |       |
| NT50-FMC-38,1100  | 38.1  | 80  | 100 | 36 | 90  | 15.9  | M20 | 1"×8산 |
| NT50-FMC-38,1150  |       |     | 150 |    |     |       |     |       |
| NT50-FMC-38,1200  |       |     | 200 |    |     |       |     |       |
| NT50-FMC-38,1250  |       |     | 250 |    |     |       |     |       |
| NT50-FMC-38,1300  |       |     | 300 |    |     |       |     |       |
| NT50-FMC-38,1350  |       |     | 350 |    |     |       |     |       |
| NT50-FMC-38,1400  |       |     | 400 |    |     |       |     |       |
| NT50-FMC-50,8100  | 50.8  | 100 | 100 | 36 | 100 | 19.05 | M24 | 1"×8산 |
| NT50-FMC-50,8150  |       |     | 150 |    |     |       |     |       |
| NT50-FMC-50,8200  |       |     | 200 |    |     |       |     |       |
| NT50-FMC-50,8250  |       |     | 250 |    |     |       |     |       |
| NT50-FMC-50,8300  |       |     | 300 |    |     |       |     |       |
| NT50-FMC-50,8350  |       |     | 350 |    |     |       |     |       |
| NT50-FMC-50,8400  |       |     | 400 |    |     |       |     |       |

## FMC

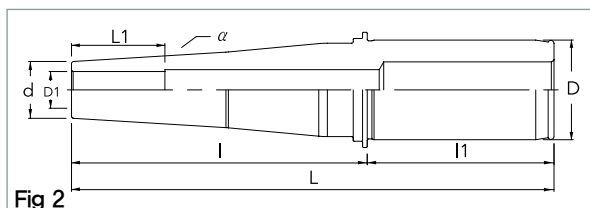
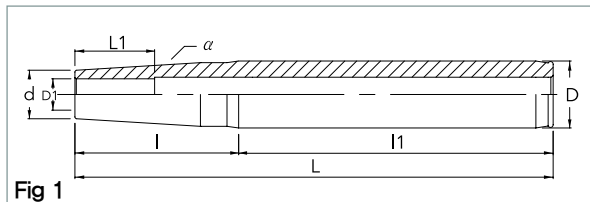


### - 웨이스캇타 롱 아바 / Face Mill Cutter Long Arbor

| Part No.          | D     | D1  | L   | L1 | D2  | W     | B   | M   |
|-------------------|-------|-----|-----|----|-----|-------|-----|-----|
| BT50-FMC-31.75100 | 31.75 | 70  | 100 | 30 | 80  | 12.7  | M16 | M24 |
| BT50-FMC-31.75150 |       |     | 150 |    |     |       |     |     |
| BT50-FMC-31.75200 |       |     | 200 |    |     |       |     |     |
| BT50-FMC-31.75250 |       |     | 250 |    |     |       |     |     |
| BT50-FMC-31.75300 |       |     | 300 |    |     |       |     |     |
| BT50-FMC-31.75350 |       |     | 350 |    |     |       |     |     |
| BT50-FMC-31.75400 |       |     | 400 |    |     |       |     |     |
| BT50-FMC-38.1100  | 38.1  | 80  | 100 | 36 | 90  | 15.9  | M20 | M24 |
| BT50-FMC-38.1150  |       |     | 150 |    |     |       |     |     |
| BT50-FMC-38.1200  |       |     | 200 |    |     |       |     |     |
| BT50-FMC-38.1250  |       |     | 250 |    |     |       |     |     |
| BT50-FMC-38.1300  |       |     | 300 |    |     |       |     |     |
| BT50-FMC-38.1350  |       |     | 350 |    |     |       |     |     |
| BT50-FMC-38.1400  |       |     | 400 |    |     |       |     |     |
| BT50-FMC-50.8100  | 50.8  | 100 | 100 | 36 | 100 | 19.05 | M24 | M24 |
| BT50-FMC-50.8150  |       |     | 150 |    |     |       |     |     |
| BT50-FMC-50.8200  |       |     | 200 |    |     |       |     |     |
| BT50-FMC-50.8250  |       |     | 250 |    |     |       |     |     |
| BT50-FMC-50.8300  |       |     | 300 |    |     |       |     |     |
| BT50-FMC-50.8350  |       |     | 350 |    |     |       |     |     |
| BT50-FMC-50.8400  |       |     | 400 |    |     |       |     |     |

# Shrink Fit Chuck

## 열박음 척 / Shrink Fit Chuck

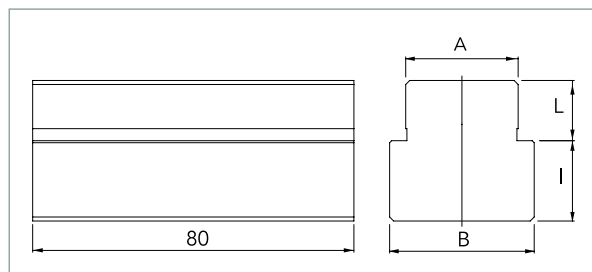


### - WELDON SHANK TYPE

| Part No.      | D  | D1 | d    | $\alpha^\circ$ | L   | L1 | I   | II  | Fig |
|---------------|----|----|------|----------------|-----|----|-----|-----|-----|
| SL20-D06x185L | 20 | 6  | 12   | 3° 30"         | 185 | 20 | 77  | 108 | 1   |
| SL20-D08x185L | 20 | 8  | 14   |                |     | 25 | 58  | 127 |     |
| SL20-D10x185L | 20 | 10 | 16   |                |     | 30 | 38  | 147 |     |
| SL25-D12x185L | 25 | 12 | 18   |                |     | 30 | 67  | 118 |     |
| SL32-D16x185L | 32 | 16 | 25   |                |     | 40 | 100 | 85  |     |
| SC20-D06x185L | 20 | 6  | 9.5  |                |     | 20 | 86  | 99  |     |
| SC20-D08x185L | 20 | 8  | 11.5 |                |     | 25 | 70  | 115 |     |
| SC20-D10x185L | 20 | 10 | 13.5 |                |     | 30 | 55  | 130 |     |
| SC25-D12x185L | 25 | 12 | 15.5 |                |     | 30 | 80  | 105 |     |
| SC32-D16x185L | 32 | 16 | 19.5 |                |     | 40 | 103 | 82  |     |
| ML32-D06x90S  | 32 | 6  | 12   |                | 150 | 20 | 90  | 60  | 2   |
| ML32-D08x90S  | 32 | 8  | 14   |                |     | 25 | 90  | 60  |     |
| ML32-D10x90S  | 32 | 10 | 16   |                |     | 30 | 90  | 60  |     |
| ML32-D12x90S  | 32 | 12 | 18   |                |     | 30 | 90  | 60  |     |
| ML32-D16x90S  | 32 | 16 | 22   |                |     | 40 | 90  | 60  |     |
| MC32-D06x55S  | 32 | 6  | 12   |                | 115 | 20 | 55  | 60  |     |
| MC32-D08x55S  | 32 | 8  | 14   |                |     | 25 | 55  | 60  |     |
| MC32-D10x55S  | 32 | 10 | 16   |                |     | 30 | 55  | 60  |     |
| MC32-D12x55S  | 32 | 12 | 18   |                |     | 30 | 55  | 60  |     |
| MC32-D16x55S  | 32 | 16 | 22   |                |     | 40 | 55  | 60  |     |
| MC32-D06x45S  | 32 | 6  | 12   |                | 105 | 20 | 45  | 60  |     |
| MC32-D08x45S  | 32 | 8  | 14   |                |     | 25 | 45  | 60  |     |
| MC32-D10x45S  | 32 | 10 | 16   |                |     | 30 | 45  | 60  |     |
| MC32-D12x45S  | 32 | 12 | 18   |                |     | 30 | 45  | 60  |     |
| MC32-D16x45S  | 32 | 16 | 22   |                |     | 40 | 45  | 60  |     |

# Block

## Settign Block



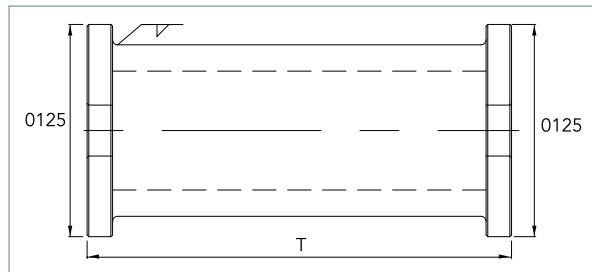
### - BLOCK - SETTING BLOCK

| Part No.          | 치수(Dimensions)mm |      |    |    |
|-------------------|------------------|------|----|----|
|                   | A기계              | B제품  | L  | I  |
| 키 블록<br>KEY BLOCK | 22               | 25   | 23 | 18 |
|                   |                  | 25.4 |    |    |
|                   |                  | 27.5 |    |    |
|                   |                  | 28   |    |    |
|                   |                  | 30   |    |    |
|                   |                  | 32   |    |    |
|                   |                  | 36   |    |    |
|                   |                  | 38   |    |    |
|                   | 24               | 25   |    |    |
|                   |                  | 25.4 |    |    |
|                   |                  | 27.5 |    |    |
|                   |                  | 28   |    |    |
|                   |                  | 30   |    |    |
|                   |                  | 32   |    |    |
|                   |                  | 36   |    |    |
|                   |                  | 38   |    |    |
|                   | 28               | 25   |    |    |
|                   |                  | 25.4 |    |    |
|                   |                  | 27.5 |    |    |
|                   |                  | 28   |    |    |
|                   |                  | 30   |    |    |
|                   |                  | 32   |    |    |
|                   |                  | 36   |    |    |
|                   |                  | 38   |    |    |

※ L, I 변경 주문제작 가능.

# Block

## Settign Block



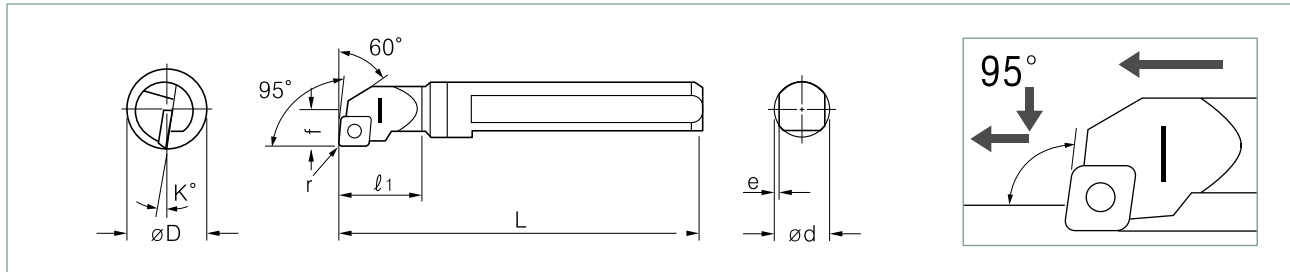
### - BLOCK - SETTING BLOCK

| Part No.   | 치수(Dimensions)mm | B제품 |
|------------|------------------|-----|
|            | T                |     |
| 고강도 파이프 블록 | 100              | 25  |
|            | 150              |     |
|            | 200              |     |
|            | 250              |     |
|            | 300              |     |
|            | 350              |     |
|            | 400              |     |



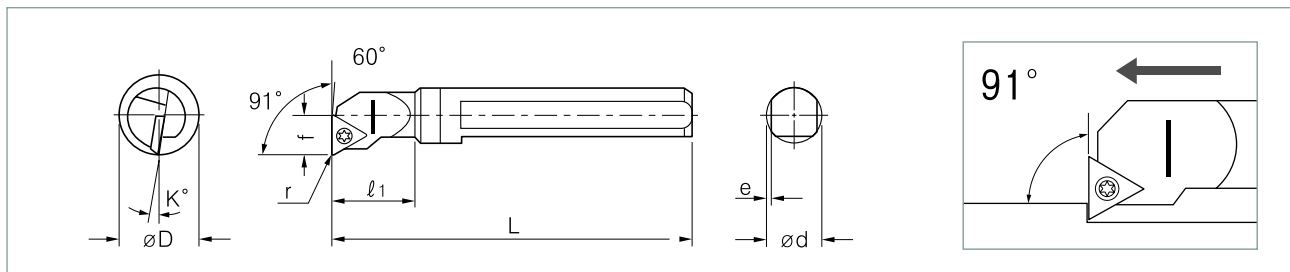
# Bo<sub>r</sub>ing Bar

## SCLC



| Part No.    | 在庫 | 적용범위                 |                                                                                        | SIZE(mm) |     |    |    |     |    | D  | R   |  |  |
|-------------|----|----------------------|----------------------------------------------------------------------------------------|----------|-----|----|----|-----|----|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|             | R  |                      |                                                                                        | d        | L   | l1 | F  | E   | K° |    |     |                                                                                     |                                                                                     |
| C08HSCLCR06 | ●  | CCMW<br>CCMT<br>CCGW | 0602  | 8        | 100 | 12 | 6  | 0,5 | 15 | 11 | 0,4 | TS25                                                                                | TX08                                                                                |
| C10KSCLCR06 | ●  |                      |                                                                                        | 10       | 125 | 16 | 7  | 0,5 | 13 | 13 | 0,4 |                                                                                     |                                                                                     |
| C12MSCLCR06 | ●  |                      |                                                                                        | 12       | 150 | 20 | 9  | 0,5 | 10 | 16 | 0,4 |                                                                                     |                                                                                     |
| C16RSCLCR06 | ●  |                      | 09T3  | 16       | 200 | 25 | 11 | 1   | 7  | 20 | 0,8 | TS4                                                                                 | TX15                                                                                |
| C20SSCLCR06 | ●  |                      |                                                                                        | 20       | 250 | 32 | 13 | 1   | 7  | 25 | 0,8 |                                                                                     |                                                                                     |

## STFC



| Part No.    | 在庫 | 적용범위         |                                                                                          | SIZE(mm) |     |    |    |     |    | D  | R   |  |  |
|-------------|----|--------------|------------------------------------------------------------------------------------------|----------|-----|----|----|-----|----|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|             | R  |              |                                                                                          | d        | L   | l1 | F  | E   | K° |    |     |                                                                                       |                                                                                       |
| C08HSTFCR09 | ●  | TCMW<br>TCMT | 0902  | 8        | 100 | 12 | 6  | 0,5 | 15 | 11 | 0,4 | TS22                                                                                  | TX06                                                                                  |
| C10KSTFCR11 | ●  |              | 1102  | 10       | 125 | 16 | 7  | 0,5 | 13 | 13 | 0,4 | TS25                                                                                  | TX08                                                                                  |
| C12MSTFCR11 | ●  |              |                                                                                          | 12       | 150 | 20 | 9  | 0,5 | 10 | 16 | 0,4 |                                                                                       |                                                                                       |
| C16RSTFCR11 | ●  |              |                                                                                          | 16       | 200 | 25 | 11 | 1   | 7  | 20 | 0,4 |                                                                                       |                                                                                       |
| C20SSTFCR16 | ●  |              | 16T3  | 20       | 200 | 32 | 13 | 1   | 7  | 25 | 0,8 | TS4                                                                                   | TX15                                                                                  |
| C25TSFCR16  | ●  |              |                                                                                          | 25       | 250 | 40 | 17 | 1   | 5  | 32 | 0,8 |                                                                                       |                                                                                       |



WIDIN

# CUTTER SERIES

## 커터시리즈



본사&창원공장 경남 창원시 의창구 시화로 172 (팔용동) [51389]  
TEL. 055-286-0905 / FAX. 055-286-0978

시카고 지사 TEL. 1-847-947-8320 / FAX. 1-847-947-8322  
상하이 지사 TEL. 86-21-5831-8103 / FAX. 86-21-5831-8153  
베트남 지사 TEL. 84-4-6287-3839 / FAX. 84-4-6287-3828

서울영업소 서울특별시 구로구 구로중앙로198 (구로동) 공구상가 C블록 20동 109호 [08212]  
TEL. 02-2679-0980 / FAX. 02-2679-0970

시화영업소 경기도 시흥시 공단1대로 244 (정왕동) 시화유통상가 19-108 [15103]  
TEL. 031-430-5446 / FAX. 031-430-5579

대구영업소 대구광역시 북구 유통단지로 16 (산격동) 산업용재관 14-15 [41518]  
TEL. 053-604-0968 / FAX. 053-604-0932

부산영업소 부산광역시 사상구 개감로 37 (괘법동) 산업용품유통상가 15-105호 [46977]  
TEL. 051-319-0914 / FAX. 051-319-0976

광주영업소 광주광역시 광산구 사암로 501(장덕동) B-119 [62231]  
TEL. 062-961-0985 / FAX. 062-961-0982

창원영업소 경상남도 창원시 의창구 창원대로 390 (팔용동) 위딘 B,D 102호 [51401]  
TEL. 055-277-9911 / FAX. 055-237-0904