



## FW80型、F11系列万能分度头

### FW80、F11 SERIES UNIVERSAL DIVIDING HEAD

- ◆ FW80,F11100A,F11125A,F11160A型万能分度头是铣床上的主要附件之一，利用分度刻度环和游标，定位销和分度盘以及交换齿轮，能将装在顶尖间或卡盘上的工件分成任意角度，可将圆周分成任意等份，辅助机床利用各种不同形状的刀具进行各种沟槽、正齿轮、螺旋正齿轮、螺旋线凸轮等的加工工作。
- ◆ 该产品还备有圆工作台，将它安装在分度头主轴上，工件可直接紧固在工作台上，也可利用装在工作台上的夹具紧固，可完成工件多方位加工。
- ◆ F11125C、F11160C型万能分度头，是根据用户要求特殊订货的产品。本产品是在F11125A,F11160A型万能分度头的基础上进行了改进，能承受较大负荷。
- ◆ F11100A L、F11125A L、F11160A L型万能分度头，与FW80一样，分度手把为左置。

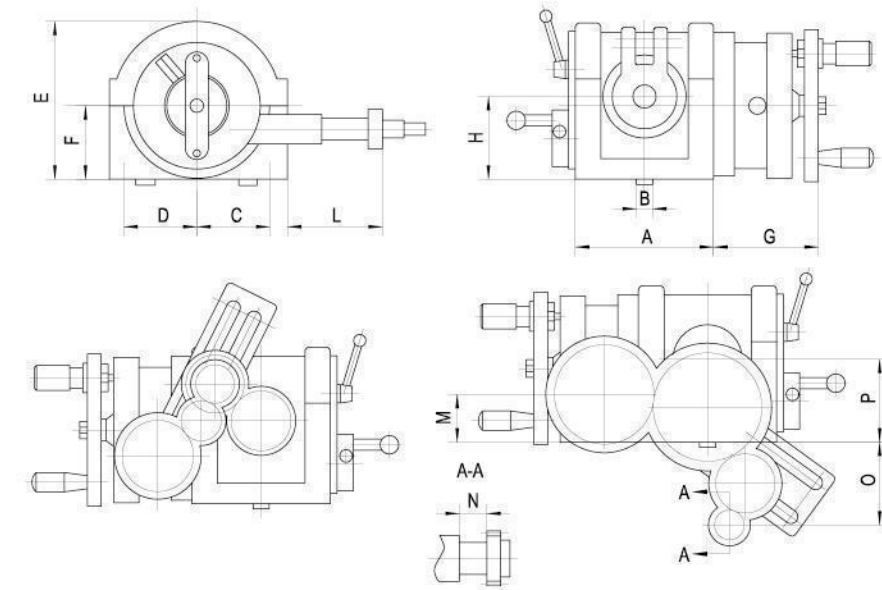
- ◆ The universal dividing head,Type FW80,F11100A,F11125A,F11160A is one of the most important attachment for milling machine. With the help of this dividing head,the workpiece held between centers,or on a chuck can be rotate to any angle as desired and the periphery of a workpiece can be divided into any divisions of equal parts.By means of all kinds of cutters,the dividing head can also help milling machine to perform the milling operation for flute,spur gear,spiral flute,Archimedean cam,helical flute and etc.
- ◆ The dividing head is equipped with a face plate that can be mounted onto the spindle nose.The workpiece can be mounted on the face plate,thus,cutting can be carried out on 4-sides of a workpiece.
- ◆ F11125C F11160C is designed for the consumers special needed,the shafting is improved to support heavy load.
- ◆ The universal dividing head,type F11100AL、F11125AL、F11160AL is the same as FW80 of the structures,and the operation handle is setted on the left.

#### 主要规格和参数: Main specifications

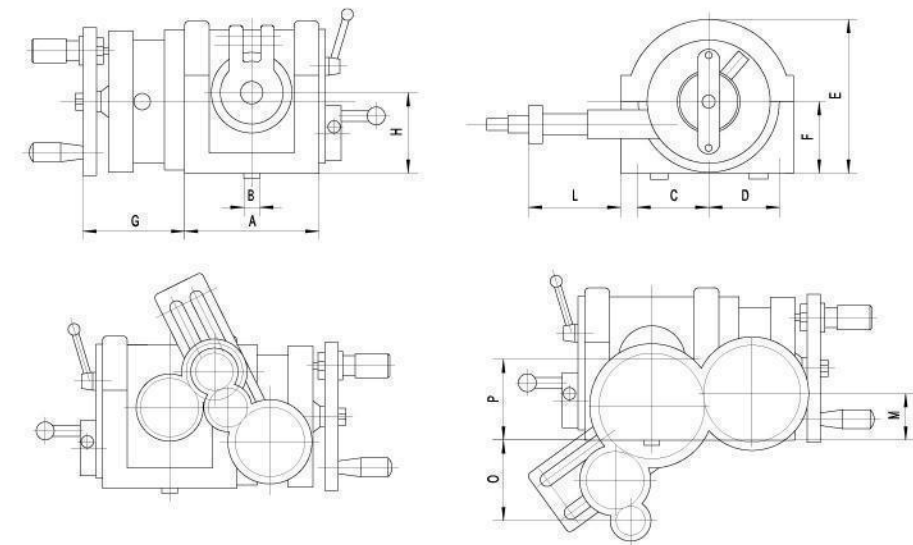
项目Items	规格Specifications	FW80	F11100A	F11125A	F11160A	F11200A
中心高 Center height mm		80	100	125	160	200
主轴由水平位置向上转动的角度 Swivel angle of spindle from it horizontal position(upward)		≤90°	≤95°			
主轴由水平位置向下转动的角度 Horizontal position(downward)		≤6°	≤5°			
分度手轮每转主轴回转角度 Rotating angle of spindle for one complete revolution of dividing handle		9°(540 grad., 1°each)				
游标最小示值 Min. reading of vernier		10"				
蜗杆副传动比 Worm gear ratio		1:40				
主轴孔锥度(莫式) Taper of spindle bore		MT3	MT4		MT4	
定位键宽度 Width of locating key mm		14	18		22	
主轴法兰盘定短锥直径 Diameter of short taper of spindlenose for mouning flange mm		φ36.541	φ41.275	φ53.975	φ53.975	φ53.975
分度盘孔数 Hole numbers on index plate	A盘 A plate	24,25,28,30,34,37,38,39,41,42,43				
	B盘 B plate	46,47,49,51,53,54,57,58,59,62,66				
变换齿轮 Change Gear	模数 Module	1.5	2			
	齿数 Teeth Numbers	25,30,35,40,50,55,60,70,80,90,100				
分度手柄一整转主轴单个分度误差 Individual indexing error of the spindle for one complete revolution of dividing handle		60"	±45"			
主轴在任意1/4圆周上的累积误差 Cumulate error at any 1/4 periphery of spindle		±1'				
最大承载 Max.bearing Kg		80	100	130	130	130
净重 Net weight Kg		36	(63)67	(104)110	(120)130	135
毛重 Gross weight Kg		45	(75)79	(120)126	(139)149	155
箱体尺寸 Case dimensions mm		542x403x220	616x465x265	635x530x310	710x535x342	748x593x383

\* 括号内为内销产品重量，括号外为出国带花盘产品重量

#### F11系列万能分度头安装尺寸图 Dimensional sketch



#### FW80系列万能分度头安装尺寸图 Dimensional sketch



#### FW80型、F11系列半万能分度头安装尺寸参数 Installation sketch and dimensions:

	A	B	C	D	E	F	G	H	L	M	N	O	P
FW80	139	14	77	73	147	77	98	80	106	43	30	60	80
F11100A	162	14	102	87	186	95	116	100	93	54.7	30	100	100
F11125A	209	18	116	98	224	117	120	125	103	68.5	34.5	100	125
F11160A	209	18	116	98	259	152	120	160	103	68.5	34.5	100	160
F11200A	209	22	116	98	300	192	120	200	103	108.5	34.5	100	200

注: 配带附件Accessories

尾座Tailstock 挂轮架Change gear bracket 交换齿轮12件Change gears Qty.12 千斤顶Jack  
 顶尖Center 拨叉Carrier 分度盘Hole plate 法兰盘Flange 三爪卡盘3-jaw chuck  
 圆工作台(特殊订货) face plate(Optional)