

1020-0080...0160,1020(FW/F11) SERIES UNIVERSAL DIVIDING HEAD



The universal dividing head, Type 1020(FW/F1) 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.

1020-3125(F11125C)、1020-3160(F11160C)、1020-4100(F11100AL)、1020-4125(F11125AL)、1020-4160(F11160AL) is designed for the consumers special needed, the shafting is improved to support heavy load.

The universal dividing head, type 1020-0100(F11100A)、1020-0125(F11125A)、1020-0160(F11160A) is the same as 1020-0080(FW80) of the structures, and the operation handle is setted on the left.

Main specifications

Specifications		Items	1020-0080 (FW80)	1020-0100 (F11100A)	1020-0125 (F11125A)	1020-0160 (F11160A)
Center height mm			80	100	125	160
Swivel angle of spindle from it horizontal position(upward)			≅ 90°	≅ 95°	≅ 95°	≅ 95°
Horizontal position(downward)			≅ 6°	≅ 5°	≅ 5°	≅ 5°
Rotating angle of spindle for one complete revolution of dividing handle			9° (540grad., 1'each)	9° (540grad., 1'each)	9° (540grad., 1'each)	9° (540grad., 1'each)
Minimum value of vernier			10"	10"	10"	10"
Worm gear ratio			1:40	1:40	1:40	1:40
Taper of spindle bore			MT3	MT3	MT4	MT4
Width of the locating key mm			14	14	18	18
Diameter of short taper of spindle nose for mousing flange mm			φ 36.541	φ 41.275	φ 53.975	φ 53.975
Hole numbers on index plate	A plate	24,25,28,30,34,37,38,39,41,42,43	24,25,28,30,34,37,38,39,41,42,43	24,25,28,30,34,37,38,39,41,42,43	24,25,28,30,34,37,38,39,41,42,43	
	B plate	46,47,49,51,53,54,57,58,59,62,66	46,47,49,51,53,54,57,58,59,62,66	46,47,49,51,53,54,57,58,59,62,66	46,47,49,51,53,54,57,58,59,62,66	
Change Gear	Module	1.5	1.5	2	2	
	Teeth Number	25,30,35,40,50,55,60,70,80,90,100	25,30,35,40,50,55,60,70,80,90,100	25,30,35,40,50,55,60,70,80,90,100	25,30,35,40,50,55,60,70,80,90,100	
Individual indexing error of the spindle for one complete revolution of dividing handle			60"	±45"	±45"	±45"
Cumulate error at any 1/4 periphery of spindle			±1'	±1'	±1'	±1'
Max. bearing Kg			80	100	130	130
Net weight Kg			36	(63)67	(104)110	(120)130
Gross weight Kg			45	(75)79	(120)126	(139)149
Case dimensions mm			542x403x220	616x465x265	635x530x310	710x535x342