

MW1320 - Cylindrical

M13 series cylindrical surface grinder is suitable for grinding outer surface of cylinder and taper.

it is suitable for single and small batch production.

The longitudinal movement of the workable is driven by hydraulic or by handwheel, the worktable can rotate to a certain degree so as to be suitable forgrinding taper.

The wheelhead cross feed is driven by hydraulic, which realizes automatic periodical feed and rapid feed.it can also do rough and fine feed through handwheel.

The workhead spindle,wheelhead spindle,internal grinding spindle,coolent pump,hydrodynamic and hydrostatic iolpump are driven by separate motors

The spindle of M1350 series is supported by hydrostatic and hydrostatic lubrication, its movement onlow speed is smooth.

The spindle of M1350 series is supported by hydrostatic and hydrodynamic bearing of high rigidity, it makes the spindle have high rotary accuracy and perfect rigidity.

The wheelhead of M1350 adopts double – speed motor and its speed can be changed by changing the position of belt.

Each moving parts of the machine has eletric, hydrailic and mechanic interlock structure the machine is well designed with pleasing appearance, all control lever are centralized in panel make operating easy.

The wheel dresser can be assembled on the worktable surface or on the tailstock.

There have many diferent distance between the centers for choice.

Standard accessories:

- (1) complete set of electrical equipment (2) coolant equipment (3) wheel periphery dresser (4) wheel flange (5) wheel balancing arbor (6) leveling wedge
- (7) open type steady rest (8) carbide tipped center

Optional accessories:

- (1) wheel balancing stand (2) magnetic seperator (3) center grinding attachment
- (4) close type steady rest (5) end wheel dresser (6) radius wheel dresser

item/model		unit	MW1320
General capacity	Distance between centers	mm	500、750
	Center height	mm	135
	Dia.ground (O.D.)	mm	5-200
	Max.length ground (O.D.)	mm	500、750
	Max.weight of workpiece	kg	100
workhead	Center taper	MT	4
	Spindle speed	r/min	50HZ:25-380

wheelhead table tailtock	Wheel spindle spee	d	rpm	1335		
	Wheelhead rapid tra	avel	mm	50		
	max.travel		mm	205		
	Hand feed per.rev.		mm	rough: 2 fine: 0.5		
	Hand feed per gra.		mm	rough: 0.01 fine: 0.0025		
able	Weel size (O.D.* W	/ *D)	mm	500*50*203		
	Peripheral velocity		m/s	35		
	Hand feed per rev.	_	mm	6		
		clockwise	o	3°		
table	Max. Swiveling	Austi ala aluuda a	mm 6 ° 3° 8° (500) 9° (750) m/min 0.1-4 MT 4	8° (500)		
	angle of table	Anti clockwise				
	Longtidual speed ra	inge of table	m/min	50 205 rough: 2 fine: 0.5 rough: 0.01 fine: 0.00 500*50*203 35 6 3° 8° (5 0 0) 9° (750) 0.1-4 4 3 0 5.5 0.75 4(500), 4.2 (750) 260*206*205 (500)		
(=:16= =1;	Center taper		MT	50 205 rough: 2 fine: 0.5 rough: 0.01 fine: 0.002 500*50*203 35 6 3° 8° (5 0 0) 9° (750) 0.1-4 4 3 0 5.5 0.75 4(500), 4.2 (750) 260*206*205 (500)		
talitock	Quil travel		mm			
	Wheelhead motor p	ower	kw	5.5		
motor	Workhead motor po	ower	kw	8° (5 0 0) 9° (750) 0.1-4 4 3 0 5.5 0.75		
	Gross weight		Т	4(500), 4.2 (750)		
machine				260*206*205 (500)		
	Packing dimension		cm	300*206*205 (750)		

項目 Item / 型號 Model 單位 Unit		MW1320	M1332	M1350	M1363	M1380		
● 一般能力 Gen	eral capacity	-						
真尖距 Distance betv	veen centers	mm	500、750	1000、1500、2000、3000	1500、2000、3000、4000	2000、3000、4000、5000	3000、4000、5000	
中心高 Center height		mm	135	180	270	370	500	
可磨外國直徑範圍 D	ia. Ground(O.D)	mm	5~200	8~320	25~500	30 ~ 630	50~800	
可磨外霉最大長度 N	lox. length ground(O.D)	mm	500、750	1000、1500、2000、3000	1500、2000、3000、4000	2000、3000、4000、5000	3000、4000、5000	
可磨工件最大重量 #	iax, weight of work piece	kg	100	150	1000	3000	3000	
● 頭架 Workhead								
中心维度 Center top	er(MT)	类氏IMTI	4	5	6	公制(metric)80 #	公制(metric)100 #	
主軸轉速 Spindle spe	ed	r/min	50HZ:25~380 Stepless	26, 52, 90, 130, 180, 260	50HZ:18~180 stepless	50HZ:10~100 stepless	50HZ:10~100 stepless	
● 砂蟻架 Wheelho	ead							
砂鞘主軸轉速 Wheel spindle speed		r/min	1335	1100	870	870	870	
快速進給量 Wheelhead rapid travel		mm	50	50	100	100	100	
大移動量 Max. Iro	rvel	mm	205	235	438	475	550	
手輸一轉砂輸架移動量 Hand feed per. rev			粗 rough: 2 精 fine:0.5	粗 rough: 2 精 fine:0.5	粗 rough:4 精 fine; 0.5	粗 rough:4 精 fine; 0.5	粗 rough:4 精 fine; 0.5	
F輪一格砂輪架移動	Hand feed per. gra		粗 rough:0.01 精 fine:0.0025	粗 rough:0.01 精 fine:0.0025	粗 rough:0.02 精 fine:0.0025	粗 rough:0.02 精 fine:0.0025	粗 rough:0.02 精 fine:0.0025	
簡最大尺寸例徑×寬度×	R類 Wheel size(ODxWAD)	mm	500 × 50 × 203	600 × 63 × 305	750 × 75 × 305	750 × 75 × 305	750 × 75 × 305	
砂糖链速度 Peripheral velocity		m/s	35	35	35	35	35	
● 工作臺 Table								
F輸一轉工作臺移動	量 Hand feed per. rev	mm	6	6	5	5	5	
作臺最大回轉角度 Max. swiveling	順時針 Clockwise		3°	3° (1000, 1500), 2° (2000, 3000)	3° 1500 , 2° (2000, 3000), 1° (4000)	2° (2000), 1° (3000, 4000, 5000)	2° (2000), 1° (3000, 4000, 5000	
angle of table	逆時針 Anticlockwise		9° (500)、8° (750)	7° (1000), 6° (1500), 5° (2000), 3° (3000)	6° (1500), 5° (2000), 3° (3000), 2° (4000)	4" 2000 , 3" 3000 , 2.5" 4000 , 1.5" 5000	4° (2000), 3° (3000), 2.5° (4000), 1° (5000	
作臺埠向移動速度範圍 Lon	gitudinal speed range of table	m/min	0.1~4	0.1~4	0.1~3	0.1-2.5	0.1~2.5	
● 尾架 Tailstock								
P心维度 Center top	e(MT)	莫氏IMT]	4	4	6	公制(metric)80 #	公制(metric)100 #	
尾架套筒手動移動量 Quill travel		mm	30	30	70	70	70	
● 電動機 Motor								
9精架電機功率 Wh	elhead motor power	kW	5.5	11	15	22	22	
頭架電機功率 Workhead motor power		kW	1.1	0.75/1.5	4	15	15	
● 機床 Machine								
毛重 Gross weight		t	4 (500)、4.2 (750)	5.3 (1000), 6.1 (1500), 7.9 (2000), 9.9 (3000)	11.2 (1500), 13 (2000), 17.4 (3000), 20(4000)	22(2000)、28 (3000)、34 (4000)、39 (5000)	30 (3000), 36 (4000), 41 (5000	
				322 × 200 × 205(1000)	510 × 228 × 210(1500)	695 × 242 × 226(2000)	890 × 260 × 230(3000)	
包裝體膜(長×寬×高) Packing dimension		_	235 × 203 × 205(500)	422 × 200 × 205(1500)	585 × 228 × 210(2000)	890 × 242 × 226(3000)	1100 × 260 × 230(4000)	
		cm	275 × 203 × 205(750)	540 × 200 × 205(2000)	785 × 228 × 210(3000)	1100 × 242 × 226(4000)		
			A CONTRACTOR OF STREET	739 × 200 × 205(3000)	1000 × 228 × 210(4000)	分散包装床身長1250(5000)	分散包装床身長1250(5000	

●主要參數 Main parameter

型号 Model 项目 Description		单位 参数 Specifications									
		Unit	MW1320	MW1420	M1432B	M1350	M1450	M1363	M1380		
● 一般能力 Gener	al capacity										
顶尖距 Distance between	en centers	mm	500、750	500、750	1000、1500	1500、2000、3000	1500、2000、3000	3000、4000、5000	3000、4000、500		
中心高 Center height		mm	135	135	180	270	270	335	500		
可磨外圆直径范围 Dia.	Ground(O.D)	mm	5~200	5~200	8~320	25~500	25~500	30~630	50~800		
可磨内孔直径范围 Dia.	Ground(I.D)	mm	-	25~100	30~100	-	30~200	VIII 1000			
可磨外圆最大长度 Max	length ground(O.D)	mm	500、750	500、750	1000、1500	1500、2000、3000	1500、2000、3000	3000、4000、5000	3000、4000、5000		
可磨内孔最大长度 Max	length ground(I.D)	mm		100	125		320				
可磨工件最大重量 Max	weight of work piece	Kg	-	100	150	1000	1000	3000	5000		
● 头架 Workhead								300000	100000		
体座回转角度 Swiveling	angle	4	-	+90°	+90°		+90"				
中心锥度 Center taper	MT)	MT	4	4	4	6	6	公制(metric)80#	公制(metric)100#		
主轴转速 Spindle speed		r/min	50HZ:25~380	50HZ:25~380	50HZ:25~220	50HZ:18~140	50HZ:20~224	50HZ:8~150	50HZ:6~80		
砂轮架 Wheel he			3300,13300,143000					00112.0	00112.0		
砂轮主轴转速 Wheels	spindle speed	rpm	1335	1670	1670	870	1330/665	740	740		
快速进给量 Wheelhea	-	mm	50	50	50	100	100	100	100		
最大移动量 Max. travel		mm	205	205	246	437.5	370	475	550		
回转角度 Swiveling angle			(5) A.C.	±30°	±30°	101.0	-30°	710	330		
手轮一转砂轮架移动量		mm	組工	ough: 2 精 fine:0.5	_00	粗 rough:4		粗 rough:6	精 fine: 0.5		
手轮一格砂轮架移动量		mm		ough:0.01 精 fine:0.0025			02 精 fine:0.0025	粗 rough:0.02	精 fine: 0.3		
砂轮最大尺寸(外径×宽度×孔径) wheel size		mm	500×50×203	400×50×203	400×50×203	750×75×305	500×75×305	900×75×305	900×75×305		
砂轮线速度		mm	35	35	35	35	35/17.5	35	35		
● 内圆磨具 Internal grinding device			00		55	00	33/17.3	30	33		
主轴转速 Spindle spee	•	r/min	_	10000	10000		7000	_	_		
		171130.1		最大 max: 35×25×10	最大 max: 50×25×13		最大 max: 175×32×32				
砂轮尺寸 wheel size		mm	=	最小 min: 17×20×6	最小 min: 17×20×6	-	最小 min: 30×25×10	-	-		
● 工作台 Table				A TIME	ac y min. 11 - 20 - 0		age min. SONESN 10				
手轮一转工作台移动量	Hand feed per. rev	mm	6	6	6		5	5	5		
工作台最大回转角度	顺时针 clockwise	38	3°	3°	3*	3° (1500), 2° (2000, 3000)		2" (3000), 1"	(4000、5000)		
Max. swiveling angle	逆时针 anticlockwise	- 1	9° (750), 8° (500)	7° (1000), 6° (1500)	6° (1500), 5° (2000), 3° (3000)		3° (3000), 2° (4000, 5000)			
工作台纵向移动速度范围		m/min	0.1~4	0.1~4	0.1~4	0.1~3	0.1~3	0.1~4	0.1~4		
● 尾架 Tailstock	7/1			V.1 1	30.5	0.1 0	0.1 3	0.174	0.174		
中心锥度 Center tape(N	MT)	MT	4	4	4	6	6	公制(metric)80#	公制(metric)100#		
套筒手动移动量 Quill travel		mm	30	30	30	70	70	100	100		
● 电动机 Motor								104102	1.3000		
砂轮架电机功率 Wheelh	nead motor power	Kw	5.5	4	5.5	15	5/7.5	18.5	18.5		
内圆磨具电机功率 Internal grinding		Kw		1.1	1.1		1.5				
头架电机功率 Workhead motor power		Kw	0.75	0.75	1.5	2.2/3.6	4	5	10		
● 机床 Machine											
毛重 Gross weight		t.	4 (500)、4.2 (750)	4.1 (500)、4.3 (750)	5.3 (1000)、6.1 (1500)	11.2 (1500)、13	3 (2000)、17.4 (3000)	25(3000), 28 (4000), 30	28(3000), 31 (4000),		
包装体积(长×宽×高) Packing dimension		cm	260×206×205(500) 300×206×205(750)	260×206×205(500) 300×206×205(750)	338×200×205(1000) 438×200×205(1500)	540×270×210(1500) 610×270×210(2000) 810×270×210(3000)					

由于技術不斷進步,更改恕不通知。Because of constant development of technique, the information will be changed without notice.