



## M1350 - 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	M1350
			1500、
	Distance between centers	mm	2000、
General capacity			3000
	Center height	mm	270
	Dia.ground (O.D.)	mm	25-500

				1500、
	Max.length ground (O.D.)			
	Max.lerigtri ground (O.D.)		mm	2000、
				3000
	Max.weight of workpiece		kg	1000
workhead	Center taper		MT	6
Worknead	Spindle speed		r/min	50HZ:18-140
	Wheel spindle speed		rpm	870
	Wheelhead rapid travel		mm	100
	max.travel		mm	437.5
wheelhead	Hand feed per.rev.		mm	rough : 4 fine : 0.5
	Hand feed per gra.		mm	rough : 0.02 fine : 0.0025
	Weel size ( O.D.* W *D)		mm	750*75*305
	Peripheral velocity		m/s	
	Hand feed per rev.		mm	5
		clockwise	0	3° (1500)
		CIUCKWISE		2° (2000、3000)
table	Max. Swiveling angle of table			6°(1500)
		Anti clockwise	o	5°(2000)
				3°(3000)
	Longtidual speed range of	f table	m/min	0.1-4
tailtock	Center taper		MT	6
Lamock	Quil travel		mm	70
	Wheelhead motor power		kw	15
motor	Workhead motor power		kw	2.2/3.6
				11.2 (1500) 、
machine	Gross weight		т	13 (2000) 、
				17.4 (3000)
				540*270*210(1500)
	Packing dimension		cm	610*270*210(2000)
				810*270*210(3000)

		華位 Unit	MW1320		M1332		M1350	M1363	M1380	
● 一般能力 Gen	eral capacity									
頂尖距 Distance between 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	
可磨外圓直徑範圍口	ia. Ground(O.D)	mm	5~200		8~320		25~500	30 ~ 630	50~800	
可磨外圓最大長度 Max. length ground(0.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》	lax. weight of work piece	kg	100		150		1000	3000	3000	
● 頭架 Workhead										
中心維度 Center top	er(MT)	奠氏IMT	4	4		5 6		公制(metric)80 #	公制(metric)100 #	
主軸轉速 Spindle spi	eed	r/min	50HZ:25~38	0 Stepless	26, 52, 90, 130, 180, 260		50HZ:18~180 stepless	50HZ:10~100 stepless	50HZ:10~100 stepless	
● 砂線架 Wheelh	ead									
砂璃主軸轉速 Wheel spindle speed		r/min	1335		1100		870	870	870	
快速進給量 Wheel	head rapid travel	mm	5	0	50		100	100	100	
最大移動量 Max. Iro	wel	mm	205		235		438	475	550	
手躺一轉砂躺架移動	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	
手躺一格砂躺架移動量 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:0.00	5 粗 rough:0.02 精 fine:0.0025	粗 rough:0.02 精 fine:0.002	
編最大尺寸所徑×寬度×	孔樹 Wheel size (ODxWxD)	mm	500 × 5	0 × 203	600 × 6	3 × 305	750 × 75 × 305	750 × 75 × 305	750 × 75 × 305	
砂糖送速度 Periphe	ral velocity	m/s	3	5	35		35	35	35	
● 工作臺 Table										
手躺一轉工作臺移動	量 Hand feed per. rev	mm	6	,	6		5	5	5	
工作臺最大回轉角度	順時針 Clockwise		3°		3° (1000, 1500), 2° (2000, 3000)		3°  1500 , 2° (2000, 3000), 1° (400	2° (2000), 1° (3000, 4000, 5000)	2° (2000), 1° (3000, 4000, 50	
Max. swiveling 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° (4	000) 4" (2000), 3" (3000), 2.5" (4000), 1.5" (5000)	4° (2000), 3° (3000), 2.5° (4000), 1° (500	
工作臺輸向移動速度範疇 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										
中心雞度 Center top	e(MT)	莫氏IMTI	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										
砂铺架電機功率 Wh	eelhead motor power	kW	5.5		n		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		1	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(4	00) 22(2000), 28 (3000), 34 (4000), 39 (5000	30 (3000) 36 (4000) 41 (500	
					322 × 200	× 205(1000)	510 × 228 × 210(1500)	695 × 242 × 226(2000)	890 × 260 × 230(3000)	
包裝體積 (長×寛×	高		235 × 203 >	< 205(500)	422 × 200 × 205(1500)		585 × 228 × 210(2000)	890 × 242 × 226(3000)		
Packing dimension		cm	275 × 203 × 205(750)		540 × 200 × 205(2000)		785 × 228 × 210(3000)	1100 × 242 × 226(4000)	1100 × 260 × 230(4000)	
					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(500	

## ●主要參數 Main parameter

	켚号 Model	単位								
项目 Description		Unit	MW1320	MW1420	M1432B	M1350	M1450	M1363	M1380	
● 一般能力 Gene	ral capacity									
顶尖距 Distance betwe	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			
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、500	
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	14	100	150	1000	1000	3000	5000	
● 头架 Workhead										
体座回转角度 Swivelin	g 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 spee	d	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	ad									
砂轮主轴转速 Wheel spindle speed		rpm	1335	1670	1670	870	1330/665	740	740	
快速进给量 Wheelhead rapid travel		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 a	ngle	0		±30°	±30°		-30°			
手轮一转砂轮架移动量		mm	粗,	ough: 2 精 fine:0.5		粗 rough:4	】 精 fine: 0.5	粗 rough:6	精 fine: 0.5	
手轮一格砂轮架移动量		mm	粗,	ough:0.01 精 fine:0.0025	5		02 精 fine:0.0025	粗 rough:0.02	精 fine:0.0025	
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	
<ul> <li>内圆磨具 Interna</li> </ul>	l grinding device									
主轴转速 Spindle spee	d	r/min	-	10000	10000	_	7000	-	-	
				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									(****	
手轮一转工作台移动量		mm	6	6	6	5		5	5	
工作台最大回转角度	顺时针 clockwise	3	3°	3°	3"	3° (1500),	3° (1500), 2° (2000, 3000)		2° (3000)、1° (4000、5000)	
Max. swiveling angle	逆时针 anticlockwise	а	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	I.	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										
中心锥度 Center tape(	MT)	MT	4	4	4	6	6	公制(metric)80#	公制(metric)100#	
套筒手动移动量 Quill t	avel	mm	30	30	30	70	70	100	100	
<ul> <li>电动机 Motor</li> </ul>										
砂轮架电机功率 Wheel		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		ст	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(2000)				

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.