

Catalogo JPG TOOLS Maquinaria Industrial

M1450 - Universal

M14 series cylindrical surface grinder is suitable for grinding outer/inner surface of cylinder and taper. 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.

M14 series universal cylindrical grinder has internal grinding apparatus, internal grinding spindle is supported by precise rollbearing.

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

The spindle of M1450 series is supported by hydrostatic and hydrostatic lubrication, its movement onlow speed is smooth.

The spindle of M1450 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 the univeral type(M1450) adopts inverter motor to realize stepless speed changing.the wheelhead spindle of the universal type (M1450) adopts sliding bearing structure.the clearance of the front bearing can be adjusted to make it suitable for the grinding use center or chuck the workhead of the universal type can be rotate to any position within its conterclock direction 90 degree so it can be suitable for grinding inner or outer surface of taper.

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

		Specifications			
Model	un				
Deseription	it	M1450	M1450	M1450	M1450
		×1500	×2000	×3000	×4000

General capacity					
Distance between centers	m m	1500	2000	3000	4000
Centre heigh	m	270	270	270	270
Dia.Ground(O.D)	m	25~50 0	25~50 0	25~50 0	25~500
Dia.Ground(I.D)	m	30~20 0	30~20 0	30~20 0	30~200
Max.length ground(O.D)	m	1500	2000	3000	4000
Max.length ground(I.D)	m	320	320	320	320
Max weight of work piece	kg	1000	1000	1000	1000
Workhead	I			1	I
Swiveling angle		+90	+90	+90	+90
Center taper	M	6	6	6	6
Spindle speed	r/ mi n	5-224	50HZ:2 5-224 STEPL ESS	5-224	50HZ:2 5-224 STEPL ESS
Wheelhead					<u> </u>
Wheel spindle speed	r/ mi n	1330/6 65	1330/6 65	1330/6 65	1330/6 65
Wheelhead rapid travel	m	100	100	100	100
Max travel	m	370	370	370	370
Swiveling angle	• •	-30°	-30°	-30°	-30°
Hand feed per.rev	m	4.0	4.0	4.0	rough:4 .0 fine:0.5
Hand feed per.gra	m	0.02	0.02	0.02	rough:0 .02 fine:0.0 025
Max dimension of wheel(OD×W×ID)	m	500×7 5×305	500×7 5×305		500×75 ×305

Internal grinding					
Spindle speed	r/ mi n	10000	10000	10000	10000
Dimension of wheel	m	5×32× 32 min:30	max:17 5×32× 32 min:30 ×25×1 0	5×32× 32 min:30	max:17 5×32×3 2 min:30 ×25×10
Table					-
Hand feed per rev.	m	5	5	5	5
Max swivelling angle of table	0	se:3° widder	clockwi se:2° widder shins:5 °	se:2° widder	clockw se:1° widders hins:2°
Longitudinal traverse speed of table	m/ mi n	0.1~3	0.1~3	0.1~3	0.1~3
Tailstock					
Center taper	M T	6	6	6	6
Quill travel	m m	70	70	70	70
Motor	I	1	1		
Wheelhead motor power	K w	5/7.5	5/7.5	5/7.5	5/7.5
Internal grinding	K	1.5	1.5	1.5	1.5
Power of workhead motor	K	4	4	4	4
Machine	I	1	1	1	1
Gross weigh	K g	11200	13000	17400	20000

項目 Item / I	In Made	單位								
項已 nem / g	ESE WOOS	Unit	M1420	MW142						
一般能力 Genera	l capacity									
頂尖距 Distance between centers		mm	520, 750	500, 75						
中心高 Center height		mm	118	135						
可磨外囊直徑範載 Dia. Ground(0.D)		mm	8~200	5~200						
可磨内孔直徑範圍 Dia. Ground (I.D)		mm	13~80	25~100						
可磨外囊最大長度 Max. length ground(0.D)		mm	520, 750	500, 75						
可磨内孔最大長度 Ma	x. length ground(I.D)	mm	125	125						
可磨工件最大重量 Max	weight of work piece	kg	50	100						
頭架 Workhead			100 C 10-30 C 100	N. 1974-1						
體座回轉角度 Swiv	eling angle	0	+90°	+90°						
中心錐度 Center to		莫氏IMT)	3	4						
主軸轉速 Spindle s		r/min	60, 85, 230, 120, 170, 460	50HZ:25~380						
砂稿架 Wheelhead										
砂輪主軸轉速 What	eel spindle speed	r/min	1820	1670						
快速進給量 Wheel		mm	20	50						
最大移動量 Max.1		mm	150	205						
回轉角度 Swiveling		0	-180 ~ +30°	+10°						
手稿一轉砂稿架移動量		mm	1	粗 rough: 2 1						
手稿一格砂稿架移動量			0.00125	粗 rough:0.01 精						
砂糖最大尺寸仍在×寬度×引起 Wheel size (ODxWxD)		mm	400 × 40 × 203	400 × 50 ×		5100x	5850×	7850x	10000×	
砂糖接速度 Peripheral velocity		m/s	35	35	m m	2280×	2280×	2280×	2280×2	
内醫醫具 Internal grin				14:08:00	1	2100	2100	2100	100	
主軸轉速 Spindles		r/min	14000	10000/150						
砂輪尺寸 Dimensio	on of wheel	mm	最大 max: 50×25×13 最小 min: 17×20×6	■天 max; 50×25×13 量(
工作臺 Table										
手續一轉工作臺移動	Hand feed per. rev	mm	6	6						
工作臺最大回轉角度		0	5° (520), 3° (750)	3°						
Max. swiveling angle of table		•	9°	9° (500), 8						
of table 工作量能向終動是實影響 Longit			0.1~4	0.1~4						
尾架 Tailstock	and the state of t	1	0.1-4	0.144						
中心錐度 Center to	(TM)equ	莫氏(MT)	3	4						
尾架套筒手動移動		mm	25	30						
電動機 Motor	DI L									
砂糖菜電機功率 Wheelhead motor power		kW	3	4						
内醫磨具電機功率 Internal grinding		kW	(與砂鏡菜電燈用四一電燈) (The some motor with wheelhead motor)	1.1						
頭架電機功率 Work	head motor power	kW	0.25/0.37	1.1						
機床 Machine										
毛重 Gross weight		to	2.4 (520), 2.9 (750)	4.1 (500)、4.						
包装體積(長×寬		cm	192 × 145 × 205(520)	235 × 203 × 2						
Packing dimension		11.25030	213 × 145 × 205(750)	275 x 203 x 2						

●主要參數 Main parameter

	켚号 Model	単位	参数 Specifications						
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	∋高 Center height		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 Wheelhe	ad rapid travel	mm	50	50	50	100	100	100	100
最大移动量 Max. trave	1	mm	205	205	246	437.5	370	475	550
回转角度 Swiveling angle		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	粗 rough:0.02 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
 内圆磨具 Interna 	l grinding device								
主轴转速 Spindle spee	d	r/min	-	10000	10000	_	7000	-	-
砂轮尺寸 wheel size				最大 max: 35×25×10	最大 max: 50×25×13		最大 max: 175×32×32		
		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), 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	6° (1500), 5° (2000), 3° (3000)		(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
 电动机 Motor 									
砂轮架电机功率 Wheelhead 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 Workhea	d motor power	Kw	0.75	0.75	1.5	2.2/3.6	4	5	10
● 机床 Machine									
毛重 Gross weight	iht t. 4 (50		4 (500), 4.2 (750)	4.1 (500)、4.3 (750)	5.3 (1000)、6.1 (1500)	11.2 (1500)、13 (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.