

# **Catalogo JPG TOOLS Maquinaria Industrial**

### M1432B - 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

Model	unit	Specifications							
Deseription		M1432B×1000	M1432B×1500	M1432B×2000	M1432B×3000				
General capacity									
Distance between centers	mm	1000	1500	2000	3000				
Centre heigh	ntre heigh mm 180		180	180	180				

Dia.Ground(O.D)	O.D) mm 8~32		8~320	8~320	8~320		
Dia.Ground(I.D)	mm	30~100	30~100	30~100	30~100		
Max.length ground(O.D)	mm	1000	1500	2000	3000		
Max.length ground(I.D)	mm	125	125	125	125		
Max weight of work piece	kg	150	150	150	150		
Workhead			1				
Swiveling angle		+90	+90	+90	+90		
Center taper	MT	4	4	4	4		
Spindle speed	r/min	50HZ:25-220 60HZ:30-364	50HZ:25-220 60HZ:30-364	50HZ:25-220 60HZ:30-364	50HZ:25-220 60HZ:30-364		
Wheelhead			ı				
Wheel spindle speed			1670	1670	1670		
Wheelhead rapid travel	mm	50	50	50	50		
Max travel	mm	246	246	205	205		
Swiveling angle	0	±30°	±30°	+10°	+10°		
Hand feed per.rev	mm	rough:2.0 fine:0.5	rough:2.0 fine:0.5	rough:2.0 fine:0.5	rough:2.0 fine:0.5		
Hand feed per.gra	mm	rough:0.01 fine:0.0025	rough:0.01 fine:0.0025	rough:0.01 fine:0.0025	rough:0.01 fine:0.0025		
Max dimension of wheel(ODxWxID)			400×50×203 400×50×203		400×50×203		
Internal grinding			I		ı		
Spindle speed	r/min	10000/15000	10000/15000	10000/15000	10000/15000		
Dimension of wheel	mm		max:50×25×13 min:17×20×6	max:30×25×10 min:17×20×6	max:30×25×10 min:17×20×6		
Table			I		I		
Hand feed per rev.	mm	mm 6 6		6	6		
Max swivelling angle of table			clockwise:3° widdershins:6°	clockwise:2° widdershins:5°	clockwise:2° widdershins:3°		

Longitudinal traverse speed of table	m/min	0.1~4	0.1~4	0.1~4	0.1~4				
Tailstock									
Center taper	MT	4	4 4		4				
Quill travel	mm	30	30	30	30				
Motor	<u> </u>		I		I				
Wheelhead motor power	Kw		5.5	5.5	5.5				
Internal grinding	Kw	1.1	1.1	1.1	1.1				
Power of workhead motor	K\M   1		1.5	1.5	1.5				
Machine									
Gross weigh	Kg 5300		6100	7900	9900				
Packing dimension			4220×2000×2050	5400×2000×2050	7390×2280×2050				

1800		單位	参數 Specifications						
項目 Item / j	Model Model	Unit	M1420	MW1420	M1432B	M1450	M1463		
一般能力 Genero	l capacity								
頂尖距 Distance between centers		mm	520、750	500、750	1000、1500、2000、3000	1500、2000、3000、4000	2000、3000、4000、5000		
中心高 Center height		mm	118	135	180	270	370		
可磨外體直徑範圍	Dia. Ground(O.D)	mm	8~200	5~200	8~320	25~500	30~630		
可磨内孔直徑範圍 Dia. Ground(I.D)		mm	13~80	25~100	30~100	30~200	30~250		
可審外疆最大長度 Mo	x. length ground(0.D)	mm	520、750	500、750	1000、1500、2000、3000	1500、2000、3000、4000	2000, 3000, 4000, 5000		
可磨内孔最大長度 M	ax. length ground(I.D)	mm	125	125	125	320	320		
可磨工件最大重量Ma	weight of work piece	kg	50	100	150	1000	3000		
類架 Workhead	e lara			N. DA TO	THE DOMESTIC STATE OF THE STATE	en la glace N	on Italian en-		
體座回轉角度 Swi	veling angle	0	+90°	+90°	+90°	+90°	+90°		
中心錐度 Center t	oper(MT)	莫氏(MT)	3	4	4	6	6		
主軸轉速 Spindle s	peed	r/min	60, 85, 230, 120, 170, 460	50HZ:25~380 Stepless	50HZ:25~220 Stepless	50HZ:20~224 Stepless	50HZ:14~140 stepless		
砂輪架 Wheelheo	d					THE PARTY OF THE P			
砂輪主軸轉速 Wh	eel spindle speed	r/min	1820	1670	1670 1670 1330/665		1100/550		
快速進給量 Wheelhead rapid travel		mm	20	50	50	100	100		
最大移動量 Max. travel		mm	150	205	246	370	450		
回轉角度 Swiveling angle		0	-180 ~ +30°	+10°	±30°	-30°	± 30°		
手輪一轉砂輪架移動量 Hand feed per. rev		mm	1	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		
手稿一格砂稿架移動置 Hand feed per, gra		mm	0.00125	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		
砂糖最大尺寸的框×寬度×孔图 Wheel size (ODxWxD)		mm	400 × 40 × 203	400 × 50 × 203	400 × 50 × 203	500 × 75 × 305	600 × 75 × 305		
砂鶴接速度 Peripheral velocity		m/s	35	35	35	35/17.5	35/17.5		
内置磨具 Internal gri	nding device								
主軸轉速 Spindle	speed	r/min	14000	10000/15000	10000/15000	10000	10000		
砂輪尺寸 Dimension of wheel		mm	最大 max: 50×25×13 最价 min; 17×20×6	最大max; 50×25×13 最点min; 17×20×6	最大 max: 50×25×13 最价 min: 17×20×6	最大 max; 175×32×32 最小 min; 30×25×10	最大max: 175×32×32 最/jmin: 30×25×10		
工作臺 Table							1 1 1 1 1 1		
手輪一轉工作臺移動	Hand feed per. rev	mm	6	6	6	5	5		
工作臺最大回轉角度	順時針 Clockwise	0	5° (520), 3° (750)	3°	3° (1000, 1500), 2° (2000, 3000)	3° (1500), 2° (2000, 3000), 1° (4000)	3° (1500), 2° (2000, 3000), 1° (4000)		
Max. swiveling angle of table	逆時針 Anticlockwise	۰	9°	9° (500), 8° (750)	7° (1000), 6° (1500), 5° (2000), 3° (3000)	6° (1500), 5° (2000), 3° (3000), 2° (4000)	6° (1500), 5° (2000), 3° (3000), 2° (4000)		
	Longitudinal speed range of table   m/		0.1~4	0.1~4	0.1-4	0.1~3	0.1~2.5		
<b>电架 Tailstock</b>		1	VII - 4	Vii	Village	0.1-0	0.172.0		
中心維度 Center t	ape(MT)	莫氏(MT)	3	4	4	6	公制80#		
<b>電架套筒手動移動</b>	Quill travel	mm	25	30	30	70	70		
電動機 Motor	DIE				1000 per marian		miles and the same of the same		
砂輪菜電機功率 Wheelhead motor power		kW	3	4	5.5	5/7.5	7/11		
内麗窘具電機功率 Internal grinding		kW	(與砂糖菜電機用同一電機) (The same motor with wheelhead motor)	1.1	1.1	1.5	1.5		
頭架電機功率 Workhead motor power		kW	0.25/0.37	1.1	1.5	4	1.5		
機床 Machine			the state of			december 1994			
毛重 Gross weight		to	2.4 (520), 2.9 (750)	4.1 (500) 、4.3 (750)	5.3 (1000), 6.1 (1500), 7.9 (2000), 9.9 (3000)	11.2 (1500)、13 (2000)、17.4 (3000)	22(2000), 28 (3000), 34 (4000) , 39(500)		
包装體積 (長×寛×高) Packing dimension		cm	192 × 145 × 205(520) 213 × 145 × 205(750)	235 × 203 × 205(500) 275 × 203 × 205(750)	322 × 200 × 205(1000) 422 × 200 × 205(1500) 540 × 200 × 205(2000) 739 × 200 × 205(3000)	510 x 228 x 210(1500) 585 x 228 x 210(2000) 785 x 228 x 210(3000) 1000 x 228 x 210(4000)	695×242×226(2000) 890×242×226(3000) 1100×242×226(4000) 分體包裝床身長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		11							
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、5000	
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	-	100	150	1000	1000	3000	5000	
● 头架 Workhead						12/8		311272	197040	
体座回转角度 Swiveling	angle	4.	-	+90°	+90°		+90°			
中心锥度 Center taper	SALES OF THE SALES OF T	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									0011210100	
砂轮主轴转速 Wheels		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 ar		9	(5) (4)	±30°	±30°	107.0	-30°	710	330	
手轮一转砂轮架移动量	.9.0	mm	#8 n	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			
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	粗 rough:0.02 900×75×305	精 fine:0.0025 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	33/1/.3	33	30	
主轴转速 Spindle spee		r/min	_	10000	10000	2	7000	_	_	
THATE OPINIOR SPOO	u	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				1 30 7 11111. 11 120 10	act min. 1772070		(東京 mini: 50~25~10			
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	36	3°	3°	3"	3° (1500), 2° (2000, 3000)		2° (3000), 1° (4000, 5000)		
Max. swiveling angle	逆时针 anticlockwise	10	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	2/1	712111111	V.1 4	0.1 4	0.14	0.1 5	0.1-3	0.174	0.174	
中心维度 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							7.00	11172		
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 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.