

Catalogo JPG TOOLS Maquinaria Industrial

M1463 - 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 and 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 different 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			Specif	ications		
Deseription	unit	M1463×2000	M1463×3000	M1463×4000	M1463×5000	
General capacity	_					
Distance between centers	mm	2000	3000	4000	5000	
Centre heigh	mm	370	370	370	370	
Dia.Ground(O.D)	mm	30~630	30~630	30~630	30~630	
Dia.Ground(I.D)	mm	30~250	30~250	30~250	30~250	
Max.length ground(O.D)	mm	2000	3000	4000	5000	
Max.length ground(I.D)	mm	320	320	320	320	
Max weight of work piece	kg	3000	3000	3000	3000	
Workhead						
Swiveling angle		+90	+90	+90	+90	
Center taper	MT	6	6	6	6	
Spindle speed	, .	50HZ:14-140	50HZ:14-140	50HZ:14-140	50HZ:14-140	
	r/min	STEPLESS	STEPLESS	STEPLESS	STEPLESS	
Wheelhead						
Wheel spindle speed	r/min	1100/550	1100/550	1100/550	1100/550	
Wheelhead rapid travel	mm	100	100	100	100	
Max travel	mm	450	450	450	450	
Swiveling angle	0	±30°	±30°	±30°	±30°	
Hand feed per.rev	mm	rough:4.0	rough:4.0	rough:4.0	rough:4.0	
		fine:0.5	fine:0.5	fine:0.5	fine:0.5	
Hand feed per.gra		rough:0.02	rough:0.02	rough:0.02	rough:0.02	
	mm	fine:0.0025	fine:0.0025	fine:0.0025	fine:0.0025	
Max dimension of wheel(OD×W×ID)	mm	600×75×305	600×75×305	600×75×305	600×75×305	

Internal grinding						
Spindle speed	r/min	10000	10000	10000	10000	
Dimension of wheel	mm	max:175×32×32 min:30×25×10	max:175×32×32 min:30×25×10	max:175x32x32 min:30x25x10	max:175×32×32 min:30×25×10	
Table				1		
Hand feed per rev.	mm	5 5		5	5	
Max swivelling angle of table	٥	clockwise:3° widdershins:6°	clockwise:2° widdershins:5°	clockwise:2° widdershins:3°	clockwise:1° widdershins:2°	
Longitudinal traverse speed of table	m/min	0.1~2.5	0.1~2.5	0.1~2.5	0.1~2.5	
Tailstock						
Center taper	MT	METRIC 80#	METRIC 80#	METRIC 80#	METRIC 80#	
Quill travel	mm	70	70 70		70	
Motor						
Wheelhead motor power	Kw	7/11	7/11	7/11	7/11	
Internal grinding	Kw	1.5	1.5	1.5	1.5	
Power of workhead motor	Kw 1.5		1.5	1.5		
Machine						
Gross weigh	Kg	22000	28000	34000	39000	
Packing dimension	mm	6950×2420×2260	8900×2420×2260	11000×2420×2260	12500×2480×2260	

TO	單位	参數 Specifications						
項目 Item / 型號 Model	Unit	M1420	MW1420	M1432B	M1450	M1463		
一般能力 General 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		
可磨外墨最大長度 Max. 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 Max. length ground(I.D)	mm	125	125	125	320	320		
可磨工件最大重量 Max. weight of work piece	kg	50	100	150	1000	3000		
頭架 Workhead			N 024-103 TI	AND DESCRIPTION OF THE PARTY OF				
體座回轉角度 Swiveling angle		+90°	+90°	+90°	+90°	+90°		
中心錐度 Center taper(MT)	莫氏(MT)	3	4 4		6	6		
主軸轉速 Spindle speed	r/min	60, 85, 230, 120, 170, 460	50HZ:25~380 Stepless	50HZ:25~220 Stepless	50HZ:20~224 Stepless	50HZ:14~140 stepless		
砂縞架 Wheelhead								
砂輪主軸轉速 Wheel spindle speed	r/min	1820	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			+10°	±30°	-30°	±30°		
手腕一轉砂輪架移動量 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		
手稿一格砂鶴架移動置 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		
列籍 TEISHIN TO SEE TO SEE (ODXWAD)	mm	400 × 40 × 203	400 × 50 × 203	400 × 50 × 203	500 × 75 × 305	600×75×305		
砂輪接速度 Peripheral velocity	m/s	35	35	35	35/17.5	35/17.5		
内置磨具 Internal grinding device			1886		55111.5	93/1/3		
主軸轉速 Spindle speed	r/min	14000	10000/15000	10000/15000	10000	10000		
砂糖尺寸 Dimension of wheel	mm		最大max; 50×25×13 最亦min; 17×20×6		最大 max: 175×32×32 最小 min: 30×25×10	最大max: 175×32×32 最小min: 30×25×10		
工作臺 Table								
			,					
手稿一轉工作臺移動量 Hand feed per. rev	Auto	6	6	6	5	5		
工作臺最大回轉角度 Max. swiveling angle	٥	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)		
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)		
工作基礎句符數是受影響 Longitudinal speed range of table	m/min	0.1 ~ 4	0.1~4	0.1~4	0.1~3	0.1~2.5		
尾架 Tailstock				The State of the S	HILL DESCRIPTION OF THE	things like in		
中心雜度 Center tape(MT)	莫氏(MT)	3	4	4	6	公制80#		
尾架套筒手動移動量 Quill travel	mm	25	30	30	70	70		
電動機 Motor				A SOLUTION TO THE REAL PROPERTY.				
砂輪架電機功率 Wheelhead motor power	kW	3 4		5.5	5/7.5	7/11		
内麗磨具電機功率 Internal grinding	kW	(與砂鎮架電機用同一電機) (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					Grand Control			
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(5000		
包装體積 (長×寬×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	単位				参数 Specifications			
项目 Description		Unit	MW1320	MW1420	M1432B	M1350	M1450	M1363	M1380
● 一般能力 Gener	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	Ž	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		
7784 TRE 1 1/4 44 1 1 1 1 1 1 1 1 1 1		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	<u></u>	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							1000		WCO.AS
体座回转角度 Swiveling	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		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	7.73								
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 a	ngle	0	COLEC	±30°	±30°	1,72,760	-30°	-11.7	-
手轮一转砂轮架移动量		mm	粗巾	ough: 2 精 fine:0.5		粗 rough:4		粗 rough:6	精 fine: 0.5
手轮一格砂轮架移动量		mm	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						3311.3	00	- 50
主轴转速 Spindle spee		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					,		1 30 7 11111		le-
手轮一转工作台移动量 Hand feed per. rev mr		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)	
Man autoritar and	逆时针 anticlockwise	- 14	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		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 7	0.1 4	33.14	0.1 5	0.1-3	0.174	0.1~4
中心锥度 Center tape(I	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							7.50	Miss	11377,53
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),
						540 × 27	(0 × 210/1500)		