

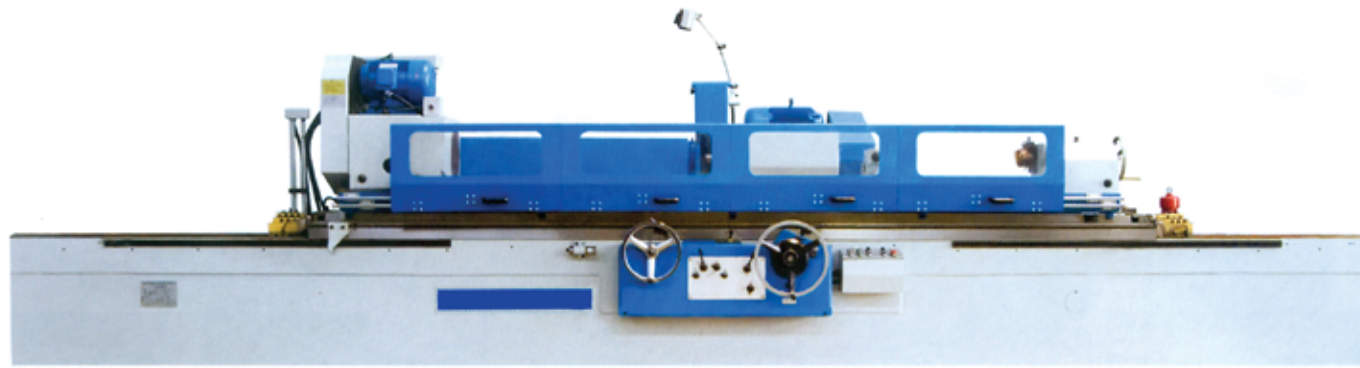


Features

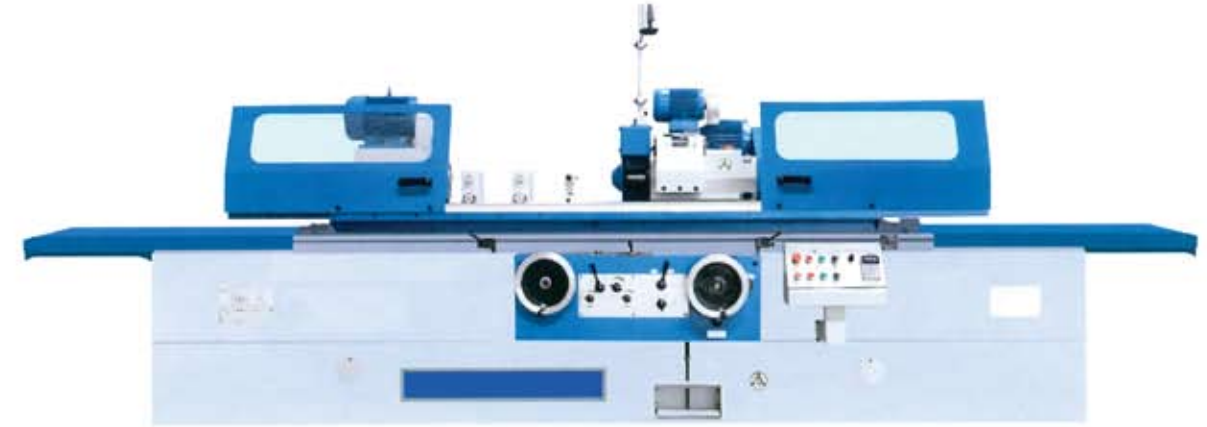
- > M13 series is suitable for grinding outer surface of cylinder and taper.
- > M14 series is suitable for grinding outer / inner surface of cylinder and taper.
- > Longitudinal movement of the worktable is driven by Hydraulic or by handwheel. Worktable can rotate to a certain degrees.
- > The wheelhead cross feed is driven by hydraulic, which realises automatic periodical feed and rapid feed. It is equipped with rough and fine feed through handwheel.
- > The work table and wheelhead guideway adopt hydrostatic lubrication thus ensuring smooth movement on low speed.
- > The spindle is supported by hydrostatic and hydrodynamic bearings for high rotary accuracy and rigidity.
- > M13 series adopts double speed motor and speed change is by changing the position of the belt.
- > M14 is universal head with stepless speed changing adopting inverter motor.
- > M14 series wheelhead spindle adopts sliding bearing structure. The clearance of the front bearing can be adjusted to make it suitable for the grinding use centre or chuck. The work head of the universal type can be rotated to any position within its counter clock direction of 90 degrees so it can be suitable for grinding inner or outer surface of taper.
- > Only M14 series has internal grinding apparatus, internal grinding spindle is supported by precision roll bearing.
- > Separate Motors are provided for workhead spindle, wheel head, internal grinding spindle (M14), coolant system & oil pump.

Description	Model	Specifications	
		MZW1350	MZW1380
● General capacity			
Distance between centers	mm	5000、6000、8000	6000、8000、10000
Center height	mm	270	500
Dia. Ground(O.D)	mm	25~500	50~800
Max. length ground(O.D)	mm	5000、6000、8000	6000、8000、10000
Max. length ground(I.D)	mm		
Max. weight of work piece	kg	1000	5000
● Workhead			
Swiveling angle	°		
Center taper(MT)	(MT)	6	(metric)100 #
Spindle speed	r/min	50HZ:18~140	50HZ:6~60
● Wheelhead			
Wheel spindle speed	r/min	870	870
Wheelhead rapid travel	mm	100	150
Max. travel	mm	437.5	550
Electro hand wheel feed	mm/gra	0.1、0.01、0.001	0.1、0.01、0.001
Max. wheel size	mm	750×75×305	750×75×305
Linear speed of wheel	mm/s	35	35
● Longitudinal saddle			
Hand wheel feed per. rev	mm	0.002	0.002
Saddle longitudinal moving speed	m/min	0.01~3	0.01~3
● Tailstock			
Center taper(MT)	(MT)	6	(metric)100 #
Quill travel	mm	70	100
● Motor			
Wheelhead motor power	kW	15	15
Workhead motor power	kW	4	11
● Machine			
Gross weight	t	25.5 (5000)、28.5 (6000)、32.5 (8000)	35(6000)、40 (8000)、45 (10000)

Because of constant development of technique, the information will be changed without notice.



Universal Hydraulic Cylindrical Machine with Internal Grinding



Description	Model	Unit	Specifications				
			MW1320	M1332	M1350	M1363	M1380
● General capacity							
Distance between centers	mm		500, 750	1000, 1500, 2000, 3000	1500, 2000, 3000	3000, 4000, 5000	3000, 4000, 5000
Center height	mm		135	180	270	335	500
Dia. Ground(D)	mm		5-200	8-320	25-500	30-630	50-800
Max. length ground(L)	mm		500, 750	1000, 1500, 2000, 3000	1500, 2000, 3000	3000, 4000, 5000	3000, 4000, 5000
Max. weight of work piece	kg		100	150	1000	3000	5000
● Workhead							
Center taper(MT)	(MT)		4	5	6	metric180 #	metric100 #
Spindle speed	r/min		50HZ:25-380 Stepless	26, 52, 90, 130, 180, 260	50HZ:18-180	50HZ:10-100	50HZ:6-60
● Wheelhead							
Wheel spindle speed	r/min		1335	1100	870	740	740
Wheelhead rapid travel	mm		50	50	100	100	100
Max. travel	mm		205	235	438	475	550
Hand feed per. rev			rough: 2 fine: 0.5	rough: 2 fine: 0.5	rough: 4 fine: 0.5	rough: 6 fine: 0.5	rough: 6 fine: 0.5
Hand feed per. gra			rough: 0.01 fine: 0.0025	rough: 0.01 fine: 0.0025	rough: 0.02 fine: 0.0025	rough: 0.02 fine: 0.0025	rough: 0.02 fine: 0.0025
Wheel size (ODxWD)	mm		500 x 50 x 203	600 x 63 x 305	750 x 75 x 305	750 x 75 x 305	900 x 75 x 305
Peripheral velocity	m/s		35	35	35	35	35
● Table							
Hand feed per. rev	mm		6	6	5	5	5
Max. swiveling angle of table	Clockwise	°	3°	3° (1000, 1500), 2° (2000, 3000)	3° (1500), 2° (2000, 3000)	2° (3000), 1° (4000, 5000)	2° (3000), 1° (4000, 5000)
	Anticlockwise	°	9° (1500), 8° (750)	7° (1000), 6° (1500), 5° (2000), 3° (3000)	6° (1500), 5° (2000), 3° (3000)	3° (3000), 2° (4000), 1.5° (5000)	3° (3000), 2° (4000), 1.5° (5000)
Longitudinal speed range of table	m/min		0.1-4	0.1-4	0.1-3	0.1-2.5	0.1-2.5
● Tailstock							
Center taper(MT)	(MT)		4	4	6	公制metric180 #	公制metric100 #
Quill travel	mm		30	30	70	100	100
● Motor							
Wheelhead motor power	kW		5.5	11	15	7/11	18
Workhead motor power	kW		0.75	0.75/1.5	2.2/3.6	15	18
● Machine							
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)	28 (3000), 34 (4000), 39 (5000)	33 (3000), 40 (4000), 45 (5000)
Packing dimension	cm		322 x 200 x 205(1000)	422 x 200 x 205(1500)	610 x 228 x 210(1500)	880 x 280 x 220(3000)	
			235 x 203 x 205(500)	540 x 200 x 205(2000)	610 x 228 x 210(2000)		
			275 x 203 x 205(750)	739 x 200 x 205(3000)	810 x 228 x 210(3000)		

Description	Model	Unit	Specifications			
			M1420	MW1420	M1432S	M1450
● General capacity						
Distance between centers	mm		520, 750	500, 750	1000, 1500, 2000, 3000	1500, 2000, 3000
Center height	mm		118	135	180	270
Dia. Ground(D)	mm		8-200	5-200	8-320	25-500
Dia. Ground(L)	mm		13-80	25-100	30-100	30-200
Max. length ground(L)	mm		520, 750	500, 750	1000, 1500, 2000, 3000	1500, 2000, 3000
Max. length ground(D)	mm		125	125	125	320
Max. weight of work piece	kg		50	100	150	1000
● Workhead						
Swiveling angle	°		+90°	+90°	+90°	+90°
Center taper(MT)	(MT)		3	4	4	6
Spindle speed	r/min		60, 85, 230, 120, 170, 460	50HZ:25-380 Stepless	50HZ:25-220 Stepless	50HZ:20-224
● Wheelhead						
Wheel spindle speed	r/min		1820	1670	1670	1330/665
Wheelhead rapid travel	mm		20	50	50	100
Max. travel	mm		150	205	246	370
Swiveling angle			-180 - +30°	± 10°	± 30°	-30°
Hand feed per. rev	mm		1	rough: 2 fine: 0.5	rough: 2 fine: 0.5	rough: 4 fine: 0.5
Hand feed per. gra	mm		0.00125	rough: 0.01 fine: 0.0025	rough: 0.01 fine: 0.0025	rough: 0.02 fine: 0.0025
Wheel size (ODxWD)	mm		400 x 40 x 203	400 x 50 x 203	400 x 50 x 203	500 x 75 x 305
Peripheral velocity	m/s		35	35	35	35/17.5
● Internal grinding device						
Spindle speed	r/min		14000	10000/15000	10000/15000	7000
Dimension of wheel	mm		max: 50 x 25 x 13 min: 17 x 20 x 6	max: 50 x 25 x 13 min: 17 x 20 x 6	max: 50 x 25 x 13 min: 17 x 20 x 6	max: 175 x 32 x 32 min: 30 x 25 x 10
● Table						
Hand feed per. rev	mm		6	6	6	5
Max. swiveling angle of table	Clockwise	°	5° (520), 3° (750)	3°	3° (1000, 1500), 2° (2000, 3000)	3° (1500), 2° (2000, 3000)
	Anticlockwise	°	9°	9° (500), 8° (750)	7° (1000), 6° (1500), 5° (2000), 3° (3000)	6° (1500), 5° (2000), 3° (3000)
Longitudinal speed range of table	m/min		0.1-4	0.1-4	0.1-4	0.1-3
● Tailstock						
Center taper(MT)	(MT)		3	4	4	6
Quill travel	mm		25	30	30	70
● Motor						
Wheelhead motor power	kW		3	4	5.5	5/7.5
Internal grinding	kW		(The same motor with wheelhead motor)	1.1	1.1	1.5
Workhead motor power	kW		0.25/0.37	0.75	1.5	4
● Machine						
Gross weight	t		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)
Packing dimension	cm		192 x 145 x 205(520)	235 x 203 x 205(500)	322 x 200 x 205(1000)	540 x 228 x 210(1500)
			213 x 145 x 205(750)	275 x 203 x 205(750)	422 x 200 x 205(1500)	610 x 228 x 210(2000)
					540 x 200 x 205(2000)	810 x 228 x 210(3000)



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