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 **CYGMC**  
**GRINDING MACHINE**

Fine  
Machine Tools  
**CYGMC**  
professional



## INTRODUCTION

Established in 1984, China Yangtze Grinding Machine Import & Export Co., Ltd (CYGMC) is a notional foreign trade company combined with production and technology.

CYGMC main deals with the following business, exporting Machine tools, Machine tool accessories, Machinery equipment, Tool wares, Measuring instruments, Lighting wares, Electrical wares. Garden tools etc. Importing Technologies & Equipment etc, Accepting user's special production equipment as per their samples, drawing or/and technical.

CYGMC has established stable and long term business relationship with foreign customers in Europe, South & North American, Middle East and South East Asian country etc.

CYGMC is sincerely prepared to co-operate with the customers all over the world for mutual benefit and progress.

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## SURFACE GRINDING MACHINE

### MAIN SPECIFICATIONS

		GM-150	GM-250	GM-Y250
<b>WORKING TABLE</b>				
Table working surface (WxL)	mm	150x450	250x500	250x500
Max.size of workpiece to be ground (WxLxH)	mm	150x450x300	250x500x300	250x500x300
Table longitudinal travel		480	520	500
Table "T" slots		1	1	1
Width	mm	14	14	14
Chuck size (WxL)	mm	150x450	200x450	250x500
<b>GRINDING HEAD</b>				
Wheel-head feed for each turn of hand-wheel				
Cross	mm	4	4	4
Vertical	mm	2	2	2
Table cross feed	mm	180	280	250
Wheel-head feed for each turn of hand-wheel				
Cross	mm	4	4	4
Vertical	mm	2	2	2
Min.Cross-feed hand-wheel dial graduated to	mm	0.02	0.02	0.02
Min.Down-feed hand-wheel dial graduated to	mm	0.01	0.01	0.01
Grinding wheel size (O.DxWxI.D)	mm	φ200x13xφ31.75	φ200x16xφ31.75	φ200x16xφ32
<b>MOTOR POWER</b>				
Electrical equipment total capacity	kVA	1.5	1.5	1.5
Grinding wheel motor power	kW	1.5	1.5	1.5
speed	r/min	2850	2850	2850
N.W/G.W	kg	750/900	900/1050	900/1050
Overall dimensions(LxWxH)	mm	1400x990x1650	1440x1029x1650	1600x1100x1600
<b>WORKING ACCURACY</b>				
Working surface to base level parallelism	mm	300:0.010	300:0.010	300:0.010
Surface roughness	μm	Ra0.63	Ra0.63	Ra0.63



GM-150

Standard Acc				
Permanent magnetic chuck		1	Wheel Balance arbor	1
Grinding wheel		1	Spanner for wheel flange	1
Wheel Dresser (without Diamond)		1	Wrench	3
Wheel flange		1	Levelling wedge	3
Scraping brush		1	Tool box	1

### SPECIFICATIONS

		MANUAL TYPE		HYDRAULIC TYPE		
		HZ-150	HZ-618	HZ-Y150	HZ-Y618	HZ-Y200
Table Working Surface (WxL)	mm	150x360	150x450	150x350	150x450	200x450
Max Size of Grinding Workpiece (WxLxH)	mm	150x350x290	150x450x260	150x350x270	150x450x280	150x450x270
T-slots(Width X No)		14 x1	14 x1	14 x1	14 x1	14 x1
Longitudinal Speed(Stepless)	m/min			3~13	3~13	3~15
Cross Feed	Each Turn	mm	5	5	5	5
	Each Graduation	mm	0.02	0.02	0.02	0.02
Down Feed	Each Turn	mm	1	1	1	1
	Each Graduation	mm	0.005	0.005	0.005	0.005
Grinding Wheel Size (O.DxW x I.D.)	mm		φ180x13xφ31.75			φ200x20xφ31.75
Wheel Spindle Speed	rpm	3000	2800	3000	2800	3000
Power	kw	1.5	1.5	2	2	2.5
Grinding Wheel Motor Power	kw	0.75	0.75	0.75	0.75	1.1
Size of Permanent Magnetic Chuck(W x L)	mm	150x350	150x450	150x350	150x450	200x450
Net Weight	kg	620	620	700	850	800
Gross Weight	kg	870	850	980	1100	1300
FloorSpace(W x L x H)	mm	1100x1000x1822	1205x1000x1822	1210x1000x1822	1490x1000x1822	1490x1100x1822
Working Accuracy	Parallelism	mm	300:0.005	300:0.005	300:0.005	300:0.005
	Surface Roughness	μm	Ra0.32	Ra0.32	Ra0.32	Ra0.32



HZ-150

#### Standard Accessories

Grinding Wheel Adaptor  
 Nut for Dismantle The Wheel Adaptor  
 Clean Dust Brush

#### Necessary Tools

Working Light System  
 Dust Collector with Dust Suction Pipe(for Manual Type)  
 Coolant System(for Hydraulic Type)  
 Leveling Bolts and Plates

#### Optional Accessories

Permanent Magnetic Chuck  
 Wheel Balancing Stand  
 Blacino Arbor with Nut  
 Grinding Wheel Dresser (W/O Diamond)  
 Spare Grinding Wheel Adaptor  
 Precision Sine Vice (Width 80mm Max Opening 100mm, Height 30mm)

## SURFACE GRINDING MACHINE

### MAIN SPECIFICATIONS

GM-D200		
<b>WORKING TABLE</b>		
Table working surface (WxL)	mm	200x460
Max.size of workpiece to be ground (WxLxH)	mm	200x460x300
Table longitudinal travel(electric)	mm	520
Table cross feed	mm	280
Table "T" slots		1
Width	mm	14
Chuck size (WxL)	mm	200x460
<b>GRINDING HEAD</b>		
Wheel-head feed for each turn of hand-wheel		
Cross	mm	4
Vertical	mm	2
Min.Cross-feed hand-wheel dial graduated to	mm	0.02
Min.Down-feed hand-wheel dial graduated to	mm	0.01
Grinding wheel size (O.DxWxI.D)	mm	φ200x16xφ31.75
<b>MOTOR POWER</b>		
Electrical equipment total capacity	kVA	1.95
Grinding wheel motor power	kW	1.5
Speed	r/min	2850
Coolant equipment total capacity	W	50
Overall dimensions(LxWxH)	mm	1850x1300x1670
Packing case dimensions(LxWxH)	mm	178x134x187
N.W/G.W	kg	1000/1200
<b>WORKING ACCURACY</b>		
Working surface to base level parallelism	mm	300:0.010
Surface roughness	μm	Ra0.63



GM-D200

Standard Acc			
Permanent magnetic chuck	1	Wheel Balance arbor	1
Grinding wheel	1	Spanner for wheel flange	1
Wheel Dresser (without Diamoud)	1	Wrench	3
Wheel flange	1	Levelling wedge	3
Scraping brush	1	Tool box	1

### MAIN SPECIFICATIONS



TH-MJ1640

TH-MJ1640		
Workable size(LxW)	mm	400x160
Longitudinal travel of worktable	mm	450
Transverse travel of worktable	mm	200
Maximum distance from spindle axis to worktable surface	mm	365
Maximum load of worktable(Including chuck)	kg	100
"T" slot of worktable	mmxN	14x1
Movement speed of worktable	m/min	5~25
Transverse feed of hand wheel	1 gra mm	0.02
	1 rev. mm	4
Spindle wheel feed	1 gra mm	0.01
	1 rev. mm	2
Rotating speed of grinding wheel	r/min	2850
Grinding wheel size	mm	200x14x31.75
Spindle motor	kw	1.1
Coolant pump	W	40
Flatness of work piece	mm	≤0.005
Roughness of work piece	um	≤Ra0.63
Overall dimension(LxWxH)	cm	120x118x180
Packing dimension(LxWxH)	cm	145x112x184.5
Net/gross weight	kg	700/800



TH-M2046

TH-M2046		
Workable size(LxW)	mm	460x200
Longitudinal travel of worktable	mm	520
Transverse travel of worktable	mm	260
Maximum distance from spindle axis to worktable surface	mm	465
Maximum load of worktable(Including chuck)	kg	100
"T" slot of worktable	mmxN	14x1
Movement speed of worktable	m/min	5~25
Transverse auto feed of worktable	mm	0.1~6.5
Transverse rapid movement	mm/min	780
Transverse feed of hand wheel	1 gra mm	0.02
	1 rev. mm	4
Spindle wheel feed	1 gra mm	0.01
	1 rev. mm	2
Rotating speed of grinding wheel	r/min	2850
Grinding wheel size	mm	200x20x31.75
Spindle motor	kw	1.5
Hydraulic motor of worktable movement	kw	0.75
Auto motor of transverse movement	Nm	6
Coolant pump	W	40
Flatness of work piece	mm	≤0.005
Roughness of work piece	um	≤Ra0.63
Overall dimension(LxWxH)	cm	155x130x171.5
Packing dimension(LxWxH)	cm	179x144x198
Net/gross weight	kg	1100/1300

- TH-M2046 Cross and longitudinal movement is automatic
- TH-M2046H longitudinal movement is automatic

## SURFACE GRINDING MACHINE

## SPECIFICATIONS

		TH-M2550	TH-M2550H	TH-M2550A
Workable size(L×W)	mm	500×250	500×250	500×250
Longitudinal travel of worktable	mm	600	600	600
Transverse travel of worktable	mm	290	290	290
Maximum distance from spindle axis to worktable surface	mm	465	465	465
Maximum load of worktable (Including chuck)	kg	200	200	200
"T" slot of worktable	mm×N	14×1	14×1	14×1
Movement speed of worktable	m/min	5~25	5~25	5~25
Transverse auto feed of worktable	mm	0.1~6.5		0.1~6.5
Transverse rapid movement	mm/min	780		780
Transverse feed of hand wheel	1 gra mm	0.02	0.02	0.02
	1 rev. mm	4	4	4
Spindle wheel feed	1 gra mm	0.01	0.01	0.01
	1 rev. mm	2	2	2
Rotating speed of grinding wheel	r/min	2850	2850	2850
Grinding wheel size	mm	200×20×31.75	200×20×31.75	200×20×31.75
Spindle motor	kw	1.5	1.5	1.5
Hydraulic motor of worktable movement	kw	0.75	0.75	0.75
Auto motor of transverse movement	Nm	6	6	6
Coolant pump	W	40	40	40
Flatness of work piece	mm	≤0.005	≤0.005	≤0.005
Roughness of work piece	um	≤Ra0.63	≤Ra0.63	≤Ra0.63
Overall dimension(L×W×H)	cm	165×130×178.5	165×130×178.5	165×130×178.5
Packing dimension(L×W×H)	cm	205×144×198	205×144×198	205×144×198
Net/gross weight	kg	1300/1500	1300/1500	1300/1500

- TH-M2550 Cross and longitudinal movement is automatic
- TH-M2550H longitudinal movement is automatic
- TH-M2550A Cross and longitudinal movement is automatic, cross movement is controlled by digital reader



TH-M2550

## SPECIFICATIONS

		TH-M3270	TH-M3270H
Workable size(L×W)	mm	700×200	700×200
Longitudinal travel of worktable	mm	800	800
Transverse travel of worktable	mm	360	360
Maximum distance from spindle axis to worktable surface	mm	650	650
Maximum load of worktable (Including chuck)	kg	300	300
"T" slot of worktable	mm×N	18×1	18×1
Movement speed of worktable	m/min	5~25	5~25
Transverse auto feed of worktable	mm	0.1~20	
Transverse rapid movement	mm/min	780	
Transverse feed of hand wheel	1 gra mm	0.02	0.02
	1 rev. mm	4	4
spindle rapid vertical feed	mm/min	1500	1500
Spindle wheel feed	1 gra mm	0.001	0.001
	1 rev. mm	0.03	0.03
Rotating speed of grinding wheel	r/min	1440	1440
Grinding wheel size	mm	355×30×127	355×30×127
Spindle motor	kw	4	4
Hydraulic motor of worktable movement	kw	1.5	1.5
Auto motor of transverse movement	Nm	8	8
Coolant pump	W	40	40
Flatness of work piece	mm	≤0.005	≤0.005
Roughness of work piece	um	≤Ra0.63	≤Ra0.63
Overall dimension(L×W×H)	cm	216×160×195	216×160×195
Packing dimension(L×W×H)	cm	229×170×222	229×170×222
Net/gross weight	kg	2000/2300	2000/2300



TH-M3270

- TH-M3270 Cross and longitudinal movement is automatic
- TH-M3270H longitudinal movement is automatic

		TH-M50100
Workable size(L×W)	mm	1000×500
Longitudinal travel of worktable	mm	1080
Transverse travel of worktable	mm	540
Maximum distance from spindle axis to worktable surface	mm	630
Maximum load of worktable (Including chuck)	kg	700
"T" slot of worktable	mm×N	18×3
Movement speed of worktable	m/min	5~25
Transverse auto feed of worktable	mm	0~30
Transverse rapid movement	mm/min	780
Transverse feed of hand wheel	1 gra mm	0.02
	1 rev. mm	5
spindle rapid vertical feed	mm/min	1500
Spindle wheel feed	1 gra mm	0.005
	1 rev. mm	1
Rotating speed of grinding wheel	r/min	1440
Grinding wheel size	mm	355×127×30 ~50
Spindle motor	kw	7.5
Hydraulic motor of worktable movement	kw	22.5
Auto motor of transverse movement	Nm	6
Coolant pump	W	40
Flatness of work piece	mm	≤0.005
Roughness of work piece	um	≤Ra0.63
Overall dimension(L×W×H)	cm	287×222×205
Packing dimension(L×W×H)	cm	295×220×215
Net/gross weight	kg	4000/5000

## SURFACE GRINDING MACHINE

### MAIN SPECIFICATIONS

		M7130G/F	M7130G/D-GM	M7132/F	M7132x16-GM	M7132x20-GM	M7132x25-GM	M7132x40A-GM
<b>WORKING TABLE</b>								
Table working surface (WxL)	mm	320x1000	320x1000	320x1000	320x1600	320x2000	320x2500	320x4000
Max.size of workpiece to be ground(WxLxH)	mm	320x1000x400	320x1000x400	320x1000x400	320x1600x400	320x2000x400	320x2500x400	320x4000x400
Table longitudinal travel(hydraulic)	mm	200-1110	200-1110	200-1110	200-1700	200-2110	200-2600	200-4100
Speed of table(stepless)	m/min	3-25	3-25	3-25	3-25	3-25	3-25	3-25
Table "T" slots		3	3	3	3	3	3	3
Width	mm	18	18	18	18	18	18	18
Max.Allowable weight of workpiece (Including electromagnetic chuck)	kg	500	500	624	800	998	1248	1996
Electromagnetic chuck (WxL)	mm	300x680	300x1000	3200x1000	320x(800x2)	320x(1000x2)	320x(1250x2)	320x(2000x2)
<b>GRINDING HEAD</b>								
Automatic cross-feed of wheel-head(stepless)								
Continuous	m/min	0.6-3	0.6-3	0.5-3	0.5-3	0.5-3	0.5-3	0.8-3.5
Intermittent	mm	3-30/stroke of table	3-30/stroke of table	3-30/stroke of table	3-30/stroke of table	3-30/stroke of table	3-30/stroke of table	3-20/stroke of table
Wheel-head feed for each turn of hand-wheel								
Vertical	mm	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Min.Down-feed hand-wheel dial graduated to	mm	0.005	0.005	0.01	0.01	0.01	0.01	0.005
Grinding wheel size (O.DxWxI.D)	mm	φ350x40xφ127	φ350x40xφ127	φ350x40xφ127	φ350x40xφ127	φ350x40xφ127	φ350x40xφ127	φ400x50xφ203
<b>MOTOR POWER</b>								
Electrical equipment total capacity	kVA	10	10	14	14	14	14	25
Grinding wheel motor power	kW	5.5	5.5	7.5	7.5	7.5	7.5	9
Speed	r/min	1440	1440	1440	1440	1440	1440	1440
Overall dimensions(LxWxH)	mm	3000x1712x2057	3000x1712x2057	3000x1782x2057	4360x1712x2057	5020x1712x2057	6400x1624x2052	10310x1786x2280
Packing case dimensions(LxWxH)	cm	261x167x242	261x167x242	286x175x236	470x170x244	532x170x244	590x190x250	885x210x285
N.W/G.W	kg	3500/4000	3600/4100	4000/4500	4500/5000	5000/5500	7800/8600	13000/14000
<b>WORKING ACCURACY</b>								
Working surface to base level parallelism	mm	300:0.005	300:0.005	300:0.005	300:0.005	300:0.005	300:0.005	300:0.008
Surface roughness	μm	Ra0.63	Ra0.63	Ra0.63	Ra0.63	Ra0.63	Ra0.63	Ra0.63



M7130G/F



M7132/F

## SURFACE GRINDING MACHINE

### HORIZONTAL SPINDLE SURFACE GRINDER WITH RECTANGULAR TABLE

M7130D/H		
<b>Main specifications</b>		
Distance from spindle to worktable	Max	575mm
	Min	135mm
Max grinding length		1000mm
Max grinding width		300mm
Max grinding height		400mm
Max Loading weight		500kg
Wheelhead crossfeed	Manually	350 mm
	Hydraulically	350 mm
Wheelhead cross feed	Step-input	3~30 work table direction change
	continuous	0.5~4.5 m/min
Wheelhead traverse travel per rev.of handwheel		8.2 mm
Max wheelhead vertical travel	Manually	380 mm
	Motor-driving	380 mm
Wheelhead tranerse travel per rev.of handwheel		0.645 mm
Wheelhead vertical feed per scale div.of handwheel		0.005 mm
Wheel dimensions		350×40×127 mm
Max.worktable long.travel		1110 mm
Electro-magnetic chuck dimensions		300×680 mm
Total motor power		10KW
Overall dimensions(L×W×H)		3505×1845×2135mm
Machine weight		3500kg
<b>Working accuracy</b>		
Thickness uniformity under 300mm length		0.005mm
Thickness uniformity under 1000mm length		0.008mm
surface roughness		Ra 0.63μm



M7130D/H

### SPECIFICATIONS

		M7130	HZ-163	
Capacity	Table Working Surface(WidthxLength)	mm 300x1000	320x1600	
	Max Size of Grinding Workpiece(Width x Length x Height)	mm 300x1000x400	320x1600x400	
	Size of Electro-magnetic Chuck	mm 300x680	320x1600	
Table	Longitudinal Traverse(Hydraulic)	mm 1110	1650	
	Numbers of T-slots	3	3	
	Table Speed(Stepless)	m/min 3~27	3~20	
	Max Traverse	Cross Feed(Manual&Hydraulic) mm 350	360	
Wheelhead	Down Feed(Manual)	mm 400	400	
	Distance from Wheel Spindle-axis to Table Surface	mm 575	575	
	Automatic Cross Feed	Continuous(Stepless)	m/min 0.5-4.5	0.5-4
		Intermittent(Stepless)	mm/stroke 3-30	3-30
	Manual Cross Feed	Hand Feed per Revolution	mm 8.25	8.25
		Graduation of Handwheel	mm 0.01	0.01
	Down Feed	Hand Feed per Revolution	mm 1.29	1.29
		Diameter x Width x Bore	mm Φ350x40xΦ127	
Grinding Wheel	Speed	m 1440	1440	
	Grinding Wheel Spindle	kw 4.5	4.5	
Motor	Hydraulic Oil Pump	kw 3	3	
	Coolant Pump	kw 0.12	0.12	
	Power Consumption	kw 7.62	7.62	
Floor Space	Length x Width x Height	mm 2295x1673x2035	4150x1673x2035	
Weight	Net Weight	kg 3500	5000	
	Gross Weight	kg 4200	7000	
Working Accuracy	Parallelism	mm 300 : 0.005	300 : 0.005	
	Surface Roughness	μm Ra0.63	Ra0.63	



M7130



HZ-163

## SURFACE GRINDING MACHINE

### SPECIFICATIONS

				M7120E/HZ	
Capacity	Table Working Surface (WidthxLengthxHeight)	mm		200x630	
	Max.Size of Grinding Workpiece (WidthxLengthxHeight)	mm		200x630x320	
Table	Longitudinal Traverse(Hydraulic)	mm		730	
	Numbers of T-slots			1	
	Table Speed(Stepless)	m/min		2-20	
Wheelhead	Max Traverse	Cross Feed(Manual&Hydraulic)	mm	230	
		Down Feed(Manual)	mm	320	
	Distance from Wheel Spindle-axis to Table Surface		mm	495	
	Rapid Elevation Speed		mm/min	400	
	Automatic Cross Feed	Continuous(Stepless)	m/min	0.5-1.8	
		Intermittent(Stepless)	mm/stroke	5-18	
	Manual Cross Feed	Hand Feed per Revolution	mm	2	
	Down Feed	Graduation of Handwheel	mm	0.005	
Grinding Wheel	Diameter X Width X Bore	mm		Φ350x32xΦ127	
	Speed	rpm		1400	
Motor	Grinding Wheel Spindle	kw		5.5	
	Hydraulic Oil Pump	kw		1.5	
	Coolant Pump	kw		0.12	
	Power Consumption	kw		8.305	
Floor Space	Length X Weidth X Height	mm		2400x1150x2050	
Weight	Net Weight	kg		2500	
	Gross Weight	kg		3100	
Working Accuracy	Parallelism	mm		300 : 0.005	
	Surface Roughness	μm		Ra0.63	



M7120E/HZ

#### Standard Accessories

Complete Electrical Equipment Including Motors and Controls  
 Complete Lighting Equipment and Coolant Equipment  
 Wheel Adaptor Necessary Tools

### SPECIFICATIONS

				M7132H	M7140H
Capacity	Table Working Surface (WidthxLengthxHeight)	mm		320x1000	400x1000
	Max.Size of Grinding Workpiece (WidthxLengthxHeight)	mm		320x1000x400	400x1000x400
Table	Longitudinal Traverse(Hydraulic)	mm		1110	1110
	Numbers of T-slots			3	3
	Table Speed(Stepless)	m/min		3-27	3-20
Wheelhead	Max Traverse	Cross Feed(Manual&Hydraulic)	mm	360	400
		Down Feed(Manual)	mm	400	400
	Distance from Wheel Spindle-axis to Table Surface		mm	575	575
	Rapid Elevation Speed		mm/min	500	500
	Automatic Cross Feed	Continuous(Stepless)	m/min	0.5-3.0	0.5-4.0
		Intermittent(Stepless)	mm/stroke	5-25	5-25
	Manual Cross Feed	Hand Feed per Revolution	mm	2.13	8.25
	Down Feed	Graduation of Handwheel	mm	0.01	0.01
Grinding Wheel	Diameter X Width X Bore	mm		Φ350x40xΦ127	Φ350x40xΦ127
	Speed	rpm		1400	1400
Motor	Grinding Wheel Spindle	kw		4.5	5.5
	Hydraulic Oil Pump	kw		3	3
	Coolant Pump	kw		0.12	0.12
	Power Consumption	kw		9.395	9.625
Floor Space	Length X Weidth X Height	mm		2295x1673x2045	4150x1673x2035
Weight	Net Weight	kg		3500	3500
	Gross Weight	kg		4200	500
Working Accuracy	Parallelism	mm		300 : 0.005	300 : 0.005
	Surface Roughness	μm		Ra0.63	Ra0.63

M7132H  
M7140H

#### Optional Accessories

Electro-magnetic Chuck  
 Wheel Balancing Stand  
 Wheel Balancing Arbor with Nut  
 Wheel Dresser Mounted on Wheelend Side(W/O Diamond)  
 Leveling Wedges  
 Spare Wheel Adaptor  
 Wheel Dresser(W/O Diamond)  
 Demagnetizer



## SURFACE GRINDING MACHINE

### MAIN SPECIFICATIONS

		M7140	M7140×16	M7140×20
<b>WORKING TABLE</b>				
Table working surface (W×L)	mm	400×1000	400×1600	400×2200
Max.size of workpiece to be ground(W×L×H)	mm	400×1000×400	400×1600×400	400×2000×400
Table longitudinal travel(hydraulic)	mm	200-1100	200-1700	200-2300
Speed of table(stepless)	m/min	3-25	3-25	3-25
Max.Allowable weight of workpiece (Including electromagnetic chuck)	kg	624	1000	1248
Electromagnetic chuck (W×L)	mm	400×1000	400×1600	400×(1000×2)
<b>GRINDING HEAD</b>				
Min.Down-feed hand-wheel graduated to	mm	0.005	0.005	0.005
Grinding wheel size(O.D×W×I.D)	mm	φ400×50×φ203	φ400×50×φ203	φ400×50×φ203
<b>MOTOR POWER</b>				
Electrical equipment total capacity	kVA	12	14	16
Grinding wheel motor power	kW	7.5	7.5	7.5
speed	r/min	1440	1440	1440
Overall dimensions(L×W×H)	mm	3000×1736×228	4190×1950×2280	6610×1786×2280
Packing case dimensions(L×W×H)	mm	360×191×262	453×215×297	513×203×276
N.W/G.W	kg	4500/5000	5600/6500	10000/10800
<b>WORKING ACCURACY</b>				
Working surface to base level parallelism	mm	300:0.005	300:0.005	300:0.005
Surface roughness	μm	Ra0.63	Ra0.63	Ra0.63



M7140



M7140×16



M7140×20

### MAIN SPECIFICATIONS

		M7140-GM
<b>WORKING TABLE</b>		
Table working surface (W×L)	mm	400×1000
Max.size of workpiece to be ground (W×L×H)	mm	400×1000×400
Table longitudinal travel(hydraulic)	mm	200-1100
Speed of table(stepless)	m/min	3-25
Table "T" slots		3
Width	mm	18
Max.Allowable weight of workpiece (Including electromagnetic chuck)	kg	624
Electromagnetic chuck (W×L)	mm	400×1000
<b>GRINDING HEAD</b>		
Automatic cross-feed of wheel-head(stepless)		
Continuous	m/min	0.5-30
Intermittent	mm	3-30 stroke of table
Grinding wheel size (O.D×W×I.D)	mm	φ350×40×φ127
Wheel-head rapid up-down traverse speed	mm/min	310
<b>MOTOR POWER</b>		
Electrical equipment total capacity	kVA	14
Grinding wheel motor power	kW	7.5
speed	r/min	1440
Hydraulic pump motor power	kw	3
speed	r/min	960
Wheel-head rapid elevation motor power	kw	0.37
speed	r/min	1440
Overall dimensions(L×W×H)	mm	3000×1782×2057
Packing case dimensions(L×W×H)	cm	286×175×236
N.W/G.W	kg	4000/4500
<b>WORKING ACCURACY</b>		
Working surface to base level parallelism	mm	300:0.005
Surface roughness	μm	Ra0.63



M7140-GM

## SURFACE GRINDING MACHINE

### MAIN SPECIFICATIONS

			HZ-62	HZ-63	HZ-64	HZ-74	HZ-85	
Table	Table Working Surface(WidthxLength)		mm	200x630	300x630	400x630	400x710	500x800
	Max Size of Grinding Workpiece		mm	200x630x300	300x630x300	400x630x300	400x710x300	500x800x500
	Distance from Wheel Spindle-axis to Table Surface		mm	200-500	200-500	200-500	200-500	200-680
	Table Load Capacity Including Chuck		kg	150	220	300	300	500
	T-slots(Width x No)			14x1	18x3	18x3	18x3	18x3
Longitudinal Feed	Longitudinal speed(Stepless)		m/min	0.5-25	0.5-25	0.5-25	0.5-25	1-20
	Hand Feed per Revolution		mm	47	47	47	47	47
Cross Feed	Manual Feed	Hand Feed per Revolution	mm	5	5	5	5	5
		Graduation of Handwheel	mm	0.02	0.02	0.02	0.02	0.02
		Micro Feed	mm	0.005	0.005	0.005	0.005	0.005
	Automatic Feed	Intermittent Feed	mm	0.5-20	0.5-20	0.5-20	0.5-20	0.5-20
		Continuous Feed Rate	m/min	0.3-1	0.3-1	0.3-1	0.3-1	0.3-1
		Micro Feed	mm	0.002	0.002	0.002	0.002	0.002
Vertical Feed	Manual Feed	Graduation of Handwheel	mm	0.005	0.005	0.005	0.005	0.005
		Hand Feed per Revolution	mm	1	1	1	1	1
	Automatic Downfeed	mm	0.002-0.03	0.002-0.03	0.002-0.03	0.002-0.03	0.002-0.03	
Grinding Wheel	Diameter X Width X Bore		mm	Φ350x25xΦ127	Φ350x32xΦ127	Φ350x40xΦ127	Φ350x40xΦ127	Φ350x40xΦ127
	Speed(50/60Hz)		rpm	1500/1800	1500/1800	1500/1800	1500/1800	1500/1800
Motors	Grinding Wheel Spindle		kw	4	4	4	4	5.5
	Hydraulic Oil Pump		kw	1.5	1.5	1.5	1.5	1.5
	Wheelhead Rapid Elevation		kw	0.37	0.37	0.37	0.37	0.37
	Power Consumption		kw	6.17	6.17	6.17	6.17	7.67
Floor Space	Length X Width X Height		mm	2300x1583x1860	2300x1892x1860	2300x2000x1860	2700x2000x1860	3040x2344x2247
Weight	Net		kg	2300	2575	2760	3100	5500

#### Standard Accessories

Complete Electrical Equipment Including Motors and Controls  
 Complete Lighting Equipment  
 Wheel Adaptor With Grinding Wheel  
 Leveling Wedges  
 Necessary Tools  
 Splash Guards

#### Optionnal Accessories

Electro-magnetic Chuck  
 Over Head Hydraulic Wheel Dresser (W/O Diamond)  
 Wheel Balancing Apparatus with Arbor  
 Coolant System with Dust Separator 150 Liter  
 Diamond Bit with Holder  
 Micro Feeder for Cross Movement  
 Spare Wheel Adaptor  
 Digital Display



HZ-62

## SURFACE GRINDING MACHINE

## MAIN SPECIFICATIONS

		M7150Hx10	M7163	MK7163	
Table	Table Working Surface(WidthxLength)	mm	500x1000	630x1000	630x1000
	Max Size of Grinding Workpiece(WidthxLengthxHeight)	mm	500x1000x500	630x1000x500	630x1000x500
	Distance from Wheel Spindle-axis to Table Surface	mm	700	680	680
	T-slots(Width x No.)		18x3	22x3	22x3
Longitudinal Feed	Longitudinal Speed(stepless)	m/min	3~20	3~20	3~20
	Hand Feed Per Revolution	mm	7	7	7
Cross Feed	Manual Hand Feed per Revolution	mm	2	2	2
	Graduation of Handwheel	mm	0.02	0.02	0.02
	Automatic Intermittent Feed	mm/stroke	3-20	3-20	3-20
	Continuous Feed	m/min	0.8-5	0.8-5	0.8-5
Vertical Feed	Manual Graduation of Handwheel	mm	0.005	0.005	0.005
	Hand Feed per Revolution	mm	1	1	1
	Automatic Downfeed	mm	0.005	0.005	0.005
Grinding Wheel	Diameter x Width x Bore	mm	Φ350x40xΦ127	Φ350x40xΦ127	Φ350x40xΦ127
	Speed	rpm	1500	1500	1500
Motor	Grinding Wheel Spindle	kw	7.5	7.5	7.5
	Hydraulic Oil Pump	kw	3	3	3
	Coolant Pump	kw	0.12	0.12	0.12
	Power Consumption(Approx)	kw	11.36	12.62	12.798
Floor Space	Length x Width x Height	mm	85x1936x2275	85x2650x2550	3285x3450x3160
	Net Weight	kg	6000	7000	7000
Weight	Gross Weight	kg	7000	8000	8000



M7150Hx10

## Standard Accessories

Complete Electrical Equipment Including Motors and Controls  
Complete Lighting Equipment and Coolant System  
Grinding Wheel Adaptor

## MAIN SPECIFICATIONS

		M7150x12-GM	M7150x16-GM	M7150x20-GM
<b>WORKING TABLE</b>				
Table working surface (WxL)	mm	500x1250	500x1600	500x2000
Max.size of workpiece to be ground (WxLxH)	mm	500x1250x400	500x1600x400	500x2000x400
Table longitudinal travel(hydraulic)	mm	200-1350	200-1700	200-2100
Speed of table(stepless)	m/min	3-25	3-25	3-25
Table "T" slots		3	3	3
Width	mm	22	18	18
Max.Allowable weight of workpiece (Including electromagnetic chuck)	kg	975	1000	1560
Electromagnetic chuck (WxL)	mm	500x1250	500x1600	500x(1000x2)
<b>GRINDING HEAD</b>				
Automatic cross-feed of wheel-head(stepless)				
Continuous	m/min	0.5-2.5	0.5-2.5	0.8-3
Intermittent	mm/time	3-30 stroke of table	3-30 stroke of table	3-30 stroke of table
Wheel-head feed for each turn of hand-wheel				
Cross	mm	3	3	3
Vertical	mm	0.5	0.5	0.5
Min.Down-feed hand-wheel dial graduated to	mm	0.005	0.005	0.005
Grinding wheel size (O.DxWxI.D)	mm	φ400x50xφ203	φ400x50xφ203	φ400x50xφ203
<b>MOTOR POWER</b>				
Electrical equipment total capacity	kVA	14	14	17.5
Grinding wheel motor power	kW	7.5	7.5	7.5
speed	r/min	1440	1440	1440
<b>WORKING ACCURACY</b>				
Working surface to base level parallelism	mm	300:0.005	300:0.005	300:0.005
Surface roughness	μm	Ra0.63	Ra0.63	Ra0.63



M7150x12-GM

## Optional Accessories

Magnetic Chuck  
Wheel Balancing Stand  
Wheel Balancing Arbor with Nut  
Wheel Dresser(W/O Diamond)  
Over Head Hydraulic Wheel dresser

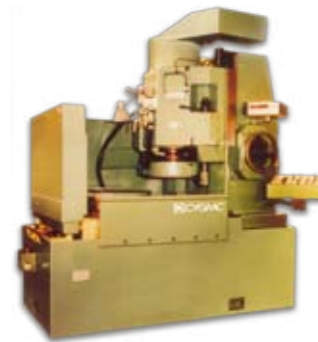
## VERTICAL SURFACE GRINDER WITH ROTARY TABLE

### MAIN SPECIFICATIONS AND PARAMETERS



M7475B

	M7475B
Worktable Diameter	Φ750mm
Max.Height To Be Ground	300mm
Max.Workpiece Weight	600kg
Electro-Magnetic Worktable Size (Diameter)	750mm
Slide Longitudinal Travel Speed	4m/Min
Slide Longitudinal Stroke	450mm
Electro-Magnetic Worktable Rotating-Speed	13r/Min,20r/Min(Two Steps)
Max.Wheelhead Vertical Stroke	380mm
Wheelhead Vertical Rapid Travel-Speed	0.22m/Min
Wheehead Spindle Speed	1000r/Min
Max.Auto.Feed	2.2mm
Wheelhead Travel Per Revolution Of Handwheel	0.5mm
Wheelhead Travel Per Scale Division Of Dial	0.01
Wheel Size Cylindrical Wheel Size	Φ450×380×Φ150mm
Segmental Wheel Size	125×85×125mm(R=225 R=190 8pcs Per 1)
Total Motor Power	29.87kw
Wheelhead Motor Power	25kw
Coolant Pump Motor Power	0.25kw
Overall Dimensions(L×W×H)	2540×1180×2230mm
Net Weight	5500kg
Packing Case Dimensions(L×W×H)	2680×2280×2580mm
Gross Weight	7200kg



MA7480

	MA7480
Worktable Diameter	Φ800mm
Max.Height To Be Ground	320mm
Max.Workpiece Weight	600kg
Wlectro-Magnetic Worktable Diameter	Φ800mm
Electro-Magnetic Worktable Speed	5-30r/Min
Slide Longitudinal Travel Speed	4m/Min
Slide Longitudinal Stroke	450mm
Max.Wheelhead Vertical Strook	400mm
Wheelhead Vertical Rapid Travel-Speed	0.22m/Min
Wheehead Spindle Speed	1000r/Min
Max.Auto.Feed	2.2mm
Wheelhead Travel Per Revolution Of Handwheel	0.005mm
Wheel Size Cylindrical Wheel Size	Φ450×150×Φ85mm
Segmental Wheel Size	125×85×125mm(R=225 R=190 8pcs Per 1)
Total Motor Power	34.87kw
Wheelhead Motor Power Overall	30kw
Overall Dimensions(L×W×H)	2435×1240×2250mm
Net Weight	5800kg
Packing Case Dimensions(L×W×H)	2680×2280×2900mm
Gross Weight	7200kg

### MAIN SPECIFICATIONS AND PARAMETERS



M74100

	M74100	M74125
Diameter Of Table	φ1000	φ1250
Max.Grnding(D×H.Mm)	φ1000×350	φ1250×400
Max.Swivel Of Table	φ1100	φ1350
From Spindle Centre To Table(Max/Min Mm)	725/245	800/325
From Wheel Top To Table Top(Mm)	350	400
Rotations Of Table(R.P.M)	10,20,28	8,12,20
Speed Of Saddle(Mm/Min)	3000	3000
Rapid Up-Down Of Head(Mm/Min)	200	200
Vertical Travel Of Head(Mm)	450	450
Auto-Feed Of Head(Stepless,Mm/Min)	0.08-1.2	0.08-1.2
Rotations Of Head(R.P.M)	960	780
Head Motor/Machine Total Power(Kw)	30/37	35/40
Wheel Dimensions (Odhid,Mm)	φ500×150×φ300	φ650×150×φ380
Overall Dimensions (L×W×H,Mm)	3000×4000×2600	3600×4000×2600
Net Weight/Gross Weight (Kg)	11500/12500	20000/22000
Planeness Of Workpiece Face To Base(Mm)	1000:0.02	1000:0.02
Roughness Of Workpiece Face(Mm)	Ra≤0.8	Ra≤0.8

	M74180	M74200
Diameter Of Table	φ1800	φ2000
Max.Grnding(D×H.Mm)	φ1800×400	φ2000×400
Max.Swivel Of Table	φ1900	φ2100
From Spindle Centre To Table(Max/Min Mm)	1250/430	1250/430
From Wheel Top To Table Top(Mm)	410	410
Rotations Of Table(R.P.M)	5,10,15	4,8,12
Speed Of Saddle(Mm/Min)	2600	2600
Rapid Up-Down Of Head(Mm/Min)	152	152
Vertical Travel Of Head(Mm)	510	510
Auto-Feed Of Head(Stepless,Mm/Min)	0.04-0.58	0.04-0.58
Rotations Of Head(R.P.M)	600	600
Head Motor/Machine Total Power(Kw)	75/80	75/80
Wheel Dimensions (Odhid,Mm)	φ1000×200×φ440	φ1000×200×φ440
Overall Dimensions (L×W×H,Mm)	4530×2120×3516	4730×2400×3165
Net Weight/Gross Weight (Kg)	26000/28000	30000/32000
Planeness Of Workpiece Face To Base(Mm)	1000:0.02	1000:0.03
Roughness Of Workpiece Face(Mm)	Ra≤1.25	Ra≤1.25

## MULTI-PURPOSE GRINDING MACHINE

### BENCH STYLE UNIVERSAL CUTTER GRINDER



2M6420



2MT6027

		2M6420	2MT6027
Max. workpiece dia	mm	Φ160	Φ270
Max. workpiece Length	mm	160	270
Longitudinal table travel	mm	125	200
Cross table travel	mm	180	140
Vertical Travel of Wheelhead	mm	120	290
Spindle speed	rpm	2800	2880
Swivel of wheel head in the horizontal plane	degree	+45, -60	+/-45
Title of wheel spindle	degree	+/-45	+/-45
Swivel of table	degree		
Total power	w	370	375
Net weight	kg	120	200
Overall size	mm	700x600x720	680x560x790
Working accuracy			
linearity	mm		0.01
Roughness	um		0.4

### SERIES MULTI - USE GRINDER MACHINE



2M9120A

		2M9120A	2M9125
Max. workpiece dia	mm	Φ200	Φ250
Max. workpiece Length	mm	500	500
Max surface to be ground	mm	300x125	300x125
Longitudinal table travel	mm	480(manual) 400(power)	480(manual) 400(power)
Cross table travel	mm	200 (wheel head move)	200 (wheel head move)
Vertical Travel of Wheelhead	mm	200	250
Spindle speed	rpm	2500	2500
Internal Grinding spindle speed	rpm	13500	13500
Swivel of wheel head in the horizontal plane	degree	+/-90	+/-90
Title of wheel spindle	degree	+/-90	+/-90
Swivel of table	degree	+45 to -30	+45 to -30
Total power	w	2905	2995
Net weight	kg	1000	1300
Overall size	mm	1400x1100x790	1520x1130x1170
Working accuracy			
Roundness	mm	0.0015(extrnal) 0.0025(internal)	0.0015(extrnal) 0.0025(internal)
Cylindricity	mm	0.005	0.005
Roughness	um	Ra0.32(extrnal) Ra0.63(internal)	Ra0.32(extrnal) Ra0.63(internal)

### SERIES UNIVERSAL TOOL & CUTTER GRINDER



MA6025



MQ6025A



MA6032

		MA6025	MQ6025A	MYA6025
Max. workpiece dia	mm	Φ250	Φ250	Φ250
Max. workpiece Length	mm	650	650	650
Center Height over the table	mm	130	130	130
Longitudinal table travel	mm	400(manual)	480	400(manual)
Swivel of table	mm	+/-45	+/-60	+/-45
Vertical Travel of Wheelhead	mm	250	230	250
Spindle speed	rpm	2700, 4000, 5500		2700, 4000, 5500
Swivel of wheel head in the horizontal plane	degree	360	360	360
Title of wheel spindle	degree	+/-15	+/-15	+/-15
Total power	kw	3.15	1.11	3.15
Net weight	kg	1100	1000	1150
Overall size	mm	1340x1320x1320	1480x1102x1215	1340x1320x1320
Working accuracy				
linearity	mm	0.005	0.005	0.005
Roughness	um	Ra0.63	Ra0.63	Ra0.63

		MGYA6025B	MA6032
Max. workpiece dia	mm	Φ250	Φ320
Max. workpiece Length	mm	650	710
Center Height over the table	mm	130	170
Longitudinal table travel	mm	400(hydraulic)	
Swivel of table	mm	+/-45	
Vertical Travel of Wheelhead	mm	250	310
Spindle speed	rpm	2700, 4000, 5500	2000-10000(stepless)
Swivel of wheel head in the horizontal plane	degree	360	360
Title of wheel spindle	degree	+/-15	360
Total power	kw	3.15	2.143
Net weight	kg	1250	800
Overall size	mm	1340x1320x1320	1100x880x1800
Working accuracy			
linearity	mm	0.003	0.005
Roughness	um	Ra0.32	Ra0.63

## MULTI-PURPOSE GRINDING MACHINE

### UNIVERSAL DIE & TOOL GRINDING MACHINE

M9116A		
Max.Outline of grinding works	mm	450×180×295
Worktable longitudinal max.Travel	v	480
Worktable cross max.Travel	mm	200
Max.Vertical travel	mm	250
Wheelspindle vertically swivel	°	90
Max.High of wheelspindle axis workable	mm	370
Rotaional speed of wheelspindle	rpm	4100/5100
Max.Outer diameter of abarasive wheel	mm	150
Total power	kw	2.905
Overall dimension	mm	1520×1216×1716
Size of case	mm	1820×1420×2050
Gross weight/net weight	kg	1600/1350
<b>Working accuracy</b>		
Flatness	mm	0.01
Parallelism	mm	0.01
Perpendicularity	mm	0.01
Roughness of surface	μm	Ra0.32



M9116A

#### STANDARD ACCESSORIES

- 1 SET-XD 125-2A ELECTRO-MAGNETIC CHUCK
- 1 SET-WHEEL DRESSER
- 1 SET-MULTI-DIRECTION VICE
- 1 SET-WHEEL STATIC BALANCE DEVICE
- 2 SET-PLAT WHEELS
- 1 SET-BOWL WHEEL
- EXTRA EQUIPMENT (AT EXTRA COST)
- 1 SET-COOLANT EQUIPMENT
- 1 SET-DUST EXTRACTOR
- 1 SET-DIGITAL DISPLAY SYSTEM
- 1 SET-RADIUS WHEEL DRESSER
- 3 KIND PRECISE SINE MACHINE VICE
- 3 KIND PRECISE MACHINE VICE

### PRECISION SNAP GAUGE GRINDER



MM 9825

		MM 9825	MM 9850
Max.Width of gauge to be ground	mm	250	500
Max.Lengh of measuring surface to be ground	mm	60	60
Grinding wheel slide max.Travel	mm	70	70
Grinding wheel slide traveling Speed	m/min	0.1~6	0.1~6
Worktable longitudinal travel	mm	260	510
Total power	kw	2.2	2.2
Overall dimension	mm	1130×1090×1200	1130×1090×1200
Size of case	mm	1860×1090×1200	1860×1090×1200
Gross weight/net weight	kg	1400/1200	1400/1200
<b>Working accuracy</b>			
Parallelism	mm	0.002	0.002
Roughness of surface	μm	Ra0.08	Ra0.08
Max.Measure error	mm	0.003	0.004

### NC SPHERE CAGE WINDOW GRINDER



XYJ-2003

		XYJ-2003
The range of grinding the holder of the Sphere cage	mm	Φ40~70
Work efficiency	pcs/h	40
Wheel longitudinal travel	50mm	50
Wheel cross travel	mm	+10~-20
Wheel spindle rate	rpm	60000
Nc system		SIEMENS 802S(OTHER NC SYSTEM IS ALSO USABLE)
Air supply pressure	mpa	0.4~0.6
Total power	kw	7
The machine dimension	mm	1800×950×1740
The machine's shipping dimension	mm	2300×1300×2020
The electric control cabinet's shipping Dimension	mm	1500×800×2000
The collant unit shipping dimension	mm	1560×1060×1080
Gross weight/net weight	kg	1800/1650,600/500,550/450
<b>Grinding precision</b>		
Disperseness from the window to base Surface	mm	±0.01
Window dimension disperseness	mm	±0.01
Surface roughness	μm	Ra1.6~0.8

## MULTI-PURPOSE GRINDING MACHINE

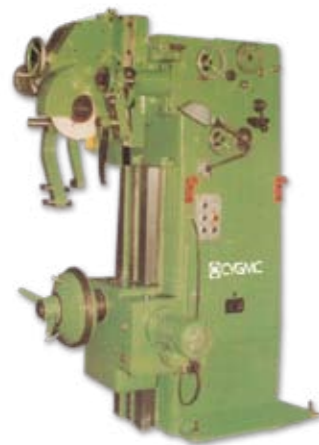
## NC SPHERE CAGE WINDOW GRINDER



XYJ-4011

		XYJ-4011	
Diameter range of the milling holder	Mm	Φ40~Φ80	
Work efficiency	Pce/h	80	
Milling allowance	Mm	0~0.8	
Max.Longitudinal travel of the Milling head	Mm	100	
Cross travel	Mm	-20~+60	
Diameter of the straight shank vertical Milling tool	Mm	Ø8	
Milling speed	M/min	400	
Nc system		Siemens 802s	
Total power	Kw	6	
Overall dimension	Mm	2288×1360×1765	
Machine shipping dimensions	Mm	2488×1560×2150	
Gross/net weight	Kg	2300/2100	
<b>Working accuracy</b>			
Disperseness from window to base side	Mm	±0.02	
Window dimension disperseness	Mm	±0.02	
Surface roughness	Mm	Ra6.3	

## CIRCULAR SAW SHAPENING MACHINE

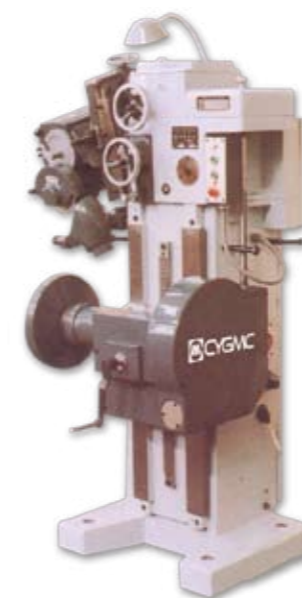


M6620

		M6620	
Diameter of saw to be ground	Mm	710-2000	
Ground tooth no.Per minute		8,15,22	
Max.Swing angle of grinding wheel in the Plane perpendicular to the wheel axial line	°	67	
Max.Swing angle of grinding wheel in the plane parallel to the wheel axial line	°	20	
Stoke of wheel head	Mm	10-50	
Wheel motor:power	Kw	2.2	
Speed	Rpm	1430	
Main drive motor:power	Kw	1.5	
Speed	Rpm	1410	
Lifting motor:power	Kw	1.5	
Speed	Rpm	1410	
Dimensions of machine(lxwxh)	Mm	1600×1250×2150	
Weight of machine(approx.)	Kg	2500	

## CIRCULAR METAL SAW SHARPENING MACHINE

		M6615A	
Dia.Of circular metal saw to be ground	mm	510-1430	
Grinding number of teeth per minute		20,30,47	
Grinding wheel		200×10×32	
Wheel speed	rpm	2800	
Vertical travel of wheelhead	mm	40	
Stroke of wheelhead in vertical plane	mm	4.5-20	
Max.Swivel of wheelhead	°	20	
Max.Travel of saw stock in vertical plane	mm	500	
<b>Main drive motor</b>			
Power	kw	1.1	
Speed	rpm	910	
<b>Wheel driver motor</b>			
Power	kw	0.75	
Speed	rpm	2800	
<b>Dust extractor motor</b>			
Power	kw	0.55	
Speed	rpm	2800	
Overall dimension of machine(lxwxh)	mm	930×750×1800	
Net weight	kg	1200	



M6615A

STANDARD ACCESSORIES		
WRENCH FOR WHEEL FLANGE	1	PC
WRENCH	1	PC
ADJUSTABLE FORK WRENCH	1	PC
SINGLE END WRENCH	1	PC
LIFTING HANDLE	1	PC
INNER TRI EDGE KEY	1	PC

SPECIAL EQUIPMENT		
DUST EXTRACTOR	1	PC

## CYLINDRICAL GRINDING MACHINE

## UNIVERSAL CYLINDRICAL GRINDER



M1412



M1414

		M1412/370	M1412/520	M1414
Height of center	mm	Φ100	Φ100	Φ100
Distance between centers	mm	370	520	200
Max dia to be Ground (External)	mm	125	125	140
(Internal)	mm	40	40	10-50
Max Length to be Ground (External)	mm	350	500	200
(Internal)	mm	4-50	4-50	50
Dia. Of Grinding wheel	mm	300x127x20-40	300x127x20-40	250x75x20
Min feed of grinding wheel head	mm	0.0025mm	0.0025mm	
Travel speed of worktable (Stepless)	m/min	0.05-4.5	0.05-4.5	0.01-4.5
Overall dimension	mm	1770x1160x1300	2240x1160x1800	1085x1065x1300

## SPECIFICATIONS



MA1420A

SPECIFICATIONS	Unit	MA1420A
Grinding diameters	mm	Φ8-200
Grinding bores	mm	Φ13-80
Max.Grinding length	mm	500/750
Max.Grinding depth	mm	125
Max.Travel of table	mm	600/800
Hydraulic traverse speeds	rpm	0.1-4
Swivel range of the table	degree	-5°~+9°/-3°~+9°
Max.Peripheral speed of grinding wheel	m/s	35
Max.Grinding wheel diameter	mm	300
Speeds of headstock spindle	rpm	60,85,230, 120,170,460
Coolant pump driver motor(500mm/750mm)	kw	4.24
Overall dimensions(500mm/750mm)(l×w×h)	mm	2700×1420×1600 2000×1420×1600
Weight of machine(500mm/750mm)	kg	2100/2600

## SPECIFICATION



MB1320E

		M1320E / MB1320E
Center height	mm	125
Max.Length of workpiece between centers	mm	520 765 1080
Max.Workpiece diameter for external	mm	Φ240
Max.Grinding length	mm	500 750 1000
External grinding range	mm	φ5-φ200
Internal grinding range	mm	---
Depth of interal grinding(bigger than φ 45mm)	mm	---
Max.Weight of workpiece between centers	kg	50
Grinding wheel	Dimensions (outer Diameter×width×bore)	mm 400×(32-50)×203
	Max.Linear velocity	m/sec 35
Swivelling angle of Table	Clockwise	9°8'3"
	Counter-clockwise	9°8'7"
Taper hole of Spindle(morse)	Workhead	MORSE4#
	Tailstock	MORSE4# (OPTIONAL MORSE 3#)
Total power	kw	6
Net weight	kg	2500 3000 3500
Gross weight	kg	3100 3600 4100
Overall dimensions	L mm	2750 2870 3700
	W mm	2000
	H mm	2100

		M1332E / MB1332E
Center height	mm	180
Max.Length of workpiece between centers	mm	520 765 1080
Max.Workpiece diameter for external	mm	Φ350
Max.Grinding length	mm	500 750 1000
External grinding range	mm	φ5-φ350
Max.Weight of workpiece between centers	kg	70
Grinding wheel	Dimensions (outer Diameter×width×bore)	mm 400×(32-50)×203
	Max.Linear velocity	m/sec 35
Swivelling angle of Table	Clockwise	9°8'3"
	Counter-clockwise	9°8'7"
Taper hole of Spindle(morse)	Workhead	MORSE4#
	Tailstock	MORSE4# (OPTIONAL MORSE 3#)
Total power	kw	6
Net weight	kg	2500 3000 3500
Gross weight	kg	3100 3600 4100
Overall dimensions	L mm	2750 2870 3700
	W mm	2000
	H mm	2100



## CYLINDRICAL GRINDING MACHINE

## SPECIFICATION



M1432E

M1420E / MB1420E		
Center height	mm	125
Max.Length of workpiece between centers	mm	520 765 1080
Max.Workpiece diameter for external	mm	Φ240
Max.Grinding length	mm	500 750 1000
External grinding range	mm	φ5-φ200
Internal grinding range	mm	φ13-φ80
Depth of internal grinding(bigger than φ 45mm)	mm	110
Max.Weight of workpiece between centers	kg	50
Grinding wheel	Dimensions (outer Diameter×width×bore)	mm 400×(32-50)×203
	Max.Linear velocity	m/sec 35
Swivelling angle of Table	Clockwise	9°8'3"
	Counter-clockwise	9°8'7"
Taper hole of Spindle(morse)	Workhead	MORSE4#
	Tailstock	MORSE4# (OPTIONAL MORSE 3#)
Total pow	kw	6.6
Net weight	kg	2500 3000 3500
Gross weight	kg	3100 3600 4100
Overall dimensions	L mm	2750 2870 3700
	W mm	2000
	H mm	2100

M1432E / MB1432E		
Center height	mm	180
Max.Length of workpiece between centers	mm	520 765 1080
Max.Workpiece diameter for external	mm	Φ350
Max.Grinding length	mm	500 750 1000
External grinding range	mm	φ5-φ350
Internal grinding range	mm	φ16-φ125
Depth of internal grinding(bigger than φ 45mm)	mm	140
Max.Weight of workpiece between centers	kg	70
Grinding wheel	Dimensions (outer Diameter×width×bore)	mm 400×(32-50)×203
	Max.Linear velocity	m/sec 35
Swivelling angle of Table	Clockwise	9°8'3"
	Counter-clockwise	9°8'7"
Taper hole of Spindle(morse)	Workhead	MORSE4#
	Tailstock	MORSE4# (OPTIONAL MORSE 3#)
Total pow	kw	6.6
Net weight	kg	2500 3000 3500
Gross weight	kg	3100 3600 4100
Overall dimensions	L mm	2750 2870 3700
	W mm	2000
	H mm	2100

## SPECIFICATION



MS1332E

MS1320E / MBS1320E		
Center height	mm	125
Max.Length of workpiece between centers	mm	520 765 1080
Max.Workpiece diameter for external	mm	Φ240
Max.Grinding length	mm	500 750 1000
External grinding range	mm	φ5-φ2000
Internal grinding range	mm	---
Depth of internal grinding(bigger than φ 45mm)	mm	---
Max.Weight of workpiece between centers	kg	50
Grinding wheel	Dimensions (outer Diameter×width×bore)	mm 400×(32-50)×203
	Max.Linear velocity	m/sec 50
Swivelling angle of Table	Clockwise	9°8'3"
	Counter-clockwise	9°8'7"
Taper hole of Spindle(morse)	Workhead	MORSE4#
	Tailstock	MORSE4# (OPTIONAL MORSE 3#)
Total pow	kw	6
Net weight	kg	2500 3000 3500
Gross weight	kg	3100 3600 4100
Overall dimensions	L mm	2750 2870 3700
	W mm	2000
	H mm	2100

MS1332E MBS1332E		
Center height	mm	180
Max.Length of workpiece between centers	mm	520 765 1080
Max.Workpiece diameter for external	mm	Φ350
Max.Grinding length	mm	500 750 1000
External grinding range	mm	φ5-φ350
Internal grinding range	mm	---
Depth of internal grinding(bigger than φ 45mm)	mm	---
Max.Weight of workpiece between centers	kg	70
Grinding wheel	Dimensions (outer Diameter×width×bore)	mm 400×(32-50)×203
	Max.Linear velocity	m/sec 50
Swivelling angle of Table	Clockwise	9°8'3"
	Counter-clockwise	9°8'7"
Taper hole of Spindle(morse)	Workhead	MORSE4#
	Tailstock	MORSE4# (OPTIONAL MORSE 3#)
Total pow	kw	6
Net weight	kg	2500 3000 3500
Gross weight	kg	3100 3600 4100
Overall dimensions	L mm	2750 2870 3700
	W mm	2000
	H mm	2100

## CYLINDRICAL GRINDING MACHINE

## MAIN SPECIFICATIONS



M1432B

		M1432B
Dia.To be ground(o.D./I.D.)		Φ8-Φ320/Φ30-Φ100mm
Length to be ground(o.D./E.D.)		750,1000,1500,2000,3000/125mm
Center height		180mm
Max.Workpiece weight		150kg
Workable speed		0.1-4m/min
Wheelhead rapid approach and withdrawal		50mm
Wheel peripheral speed		35m/sec
Wheelhead displacement per div.On and Wheel scale(fine/coarse)		0.0025/0.01mm
Internal grinding wheel speed		10000,15000r/min
Hydraulic pump pressure		2.5mpa
Hydraulic pump capacity		10ml/r
Coolant pump capacity		25l/min
Total motor power		8.975kw
Wheelhead power		5.5kw
Machine weight		3600,3700,4300,5900kg
Overall dimensions(lxwxh)		3105,3605,4605,5900×1810×1515mm



M1332B

		M1332B	
Grinding capacity		φ320×500,750,1000,1500mm	
Grinding diameter	with steady-rest	min	max
	without steady-rest	min	max
Grinding length		500,750,1000,1500mm	
Max.Work weight		150kg	
Center-line height		180mm	
Distance between centers		550,750,1000,1500mm	
Max.Worktable longitudinal travel		550,800,1050,1500mm	
Workhead spindle speed		50hz	26,90,130,52,180,260r/min
Wheel dimensions(o.D×w×i.D.)		φ600×75×305mm	
Wheel velocity		35m/s	
Wheel spindle speed		1130r/min	
Wheelhead displacement per rev. Of handwheel	coarse	2mm,0.5mm	
	fine		
Wheelhead displacement per div. Of handwheel	coarse	0.01mm,0.0025mm	
	fine		
Hyd.Pump pressure		2.5mpa	
Total electric power		13.45kw	
Machine weight(net weight)		3300,3600,4000,4300kg	
Overall dimensions (L×w×h.)	×500mm	2180×1810×1665mm	
	×750mm	2680×1810×1665mm	
	×1000mm	3180×1810×1665mm	
	×1500mm	4180×1810×1665mm	

## MAIN SPECIFICATIONS



MQ1350B

		MQ1350B
Max.Dia.To Be Ground		Φ500mm
Max.Length To Be Ground		1500,2000,3000mm
Max.Workpiece Weight		1000kg
Wheel Size(O.D×W×I.D.)		φ750×75×φ305mm
Wheel Spindle Rotation Speed		870r/min
Center Height		270mm
Max.Worktable Traverse		1500,2000,3000mm
Max.Worktable Travel Speed		3m/min
Wheel Peripheral Speed		35m/s
Wheelhead Rapid Approach Andwithdrawal Travel		100mm
Automatic Intermittent Infeed(Coarse/Fine)		0.02mm/0.0025mm
Manual Microfeed(Coarse/Fine)		0.02mm/0.0025mm
Hydraulic Pump Displacement		17.3ml/r
Hydraulic Pump Pressure		6.3mpa
Coolant Flow		50 l/min
Total Motor Power		20.63kw
Wheelhead Motor Power		15kw
Machine Weight(Net Weight)		8600,9900,11350kg
Machine Weight(Gross Weight)		11200,13000,17350kg
Overall Dimensions(L×W×H)		(1500)5323×2140×1550mm (2000)6090×2140×1550mm (3000)10240×2140×1550mm

## MAIN SPECIFICATIONS



M1450B

		M1450B
Max.Dia.To Be Ground(O.D./I.D.)		Φ500/200mm
Max.Workpiece Length To Be Ground(O.D./I.D.)		1500,2000,3000/320mm
Max.Workpiece Weight To Be Ground		1000kg
Wheel Size(O.D.×W×I.D.),(For Cylinder)		φ500×75×φ305mm
Wheel Spindle Rotating Speed		1330/665r/min
Internal Grinding Attachment Rotating Speed		10000,6000,4200,3000r/min
Center Height		270mm
Max.Worktable Traverse		1500,2000,3000mm
Max.Worktable Speed		3m/min
Wheel Peripheral Velocity		35m/s
Wheelhead Rapid Approach And Withdrawal Travel		100mm
Automatic Infeed(Coarse/Fine)		0.02/0.0025mm
Manual Microfeed(Coarse/Fine)		0.02/0.0025mm
Hydraulic Pump Capacity		17.3 l/min
Hydraulic Pump Pressure		6.3mpa
Coolant Capacity		50 l/min
Total Motor Power		14.08kw
Wheelhead Motor Power		5/7.5,(FOR OUTER CIRCLE GRINDING) 1.5KW(FOR INNER CIRCLE GRINDING)
Machine Weight(Net Weight)		8600,9900,11350KG
Overall Dimensions(L×W×H)		5320,6090,10240×2680×1560mm

## CYLINDRICAL GRINDING MACHINE

### MAIN SPECIFICATIONS



H164

H164	
Grinding Diameter	Φ30-630mm
Max.Grinding Length	2000mm
Max.Work Weight	1200kg
Center Height	350mm
Distance Between Centers	2000mm
Wheel Spindle Roatating-Speed	870r/min
Max.Wheel Peripheral Velocity	35m/s
Max.Wheel Dia.(Worn To)	750(550)mm
Max.Worktable Longitudinal Travel	2000mm
Wheelhead Feed Per Div.Of Handwheel(Coarse/Fine)	0.02mm/0.0025mm
Worktable Hydraulic Travel-Speed	0.1-3m/min
Total Motor Power	21.77kw
Machine Weight	10300kg
Machine Overall Dimensions(LxWxH)	5920x2600x2310mm

H163	
Grinding Diameter	Φ30-630mm
Max.Grinding Length	3000mm
Max.Work Weight	1200kg
Center Height	350mm
Distance Between Centers	3000mm
Wheel Spindle Roatating-Speed	870r/min
Max.Wheel Peripheral Velocity	35m/s
Max.Wheel Dia.(Worn To)	750(550)mm
Max.Worktable Longitudinal Travel	3000mm
Wheelhead Feed Per Div.Of Handwheel(Coarse/Fine)	0.02mm/0.0025mm
Worktable Hydraulic Travel-Speed	0.1-3m/min
Total Motor Power	21.77kw
Machine Weight	12150kg
Machine Overall Dimensions(LxWxH)	8050x2600x2310mm

H147	
Grinding Diameter	Φ30-630mm
Max.Grinding Length	4000mm
Max.Work Weight	1200kg
Center Height	350mm
Distance Between Centers	4000mm
Wheel Spindle Roatating-Speed	870r/min
Max.Wheel Peripheral Velocity	35m/s
Max.Wheel Dia.(Worn To)	750(550)mm
Max.Worktable Longitudinal Travel	4000mm
Wheelhead Feed Per Div.Of Handwheel(Coarse/Fine)	0.02mm/0.0025mm
Worktable Hydraulic Travel-Speed	0.1-3m/min
Total Motor Power	21.77kw
Machine Weight	14700kg
Machine Overall Dimensions(LxWxH)	11380x2600x2310mm

### MAIN SPECIFICATIONS

M1380/H	
CENTERHEIGHT	500mm
WORK LENGTH TO BE GROUND	3000mm,4000mm,5000mm
WORK DIA.TO BE GROUND	Φ50-800mm
MAX.WORK HEIGHT	3000kg
HEADSTOCK AND TAILSTOCK CENTER TAPERED-BORE	#80 metric
HEADSTOCK DRIVING-PLATE ROTATING-SPEED(STEPPLESSLY ADJUSTABLE)	7-70r/min
WHEEL PERIPHERAL VELOCITY	17.5/35m/s
MIN.INTERMITTENT FEED(COARSE/FINE)	0.02mm/0.0025mm



M1380/H

MC1363	
Centerheight	370mm
Work Length To Be Ground	2000mm,3000mm,4000mm,5000mm
Max.Work Dia.To Be Ground	φ30 - φ630mm
Max.Work Weight	3000kg
Headstock And Tailstock Center Tapered-Bore	#80 metric
Headstock Driving-Plate Rotating-Speed(Steplessly Adjustable)	10-100r/min
Wheel Peripheral Velocity	17.5/35m/s
Min.Intermittent Feed	0.0025mm



MC1363

## INTERNAL GRINDING MACHINE

## MAIN SPECIFICATIONS



M215A

M215A		
Bore Dia Ground	mm	Φ3-50
Max. Grinding depth	mm	80
Swing of workpiece	with guard without guard	mm mm
Max. Sweivel of workhead	degree	30
Work speed	rpm	280,400,560,800
Wheel speed	rpm	16000-24000, 48000-60000
Max. OD of end face grinding	mm	
Wheel speed	rpm	8000
Total Power of machine	kw	9.74
Work motor	kw	0.45/0.75
Wheel Motor	kw	1-2
machine weight	kg	2500
Overall dimension	mm	1580x1450x1560
Working accuracy		
Bore roundness	mm	0.003
Cylindricity	mm	0.003
Size deviation of bore	mm	
Surface roughness of bore	um	Ra0.63
Flatness of endface (flat or concave)	mm	0.002
Surface roughness of endface	um	Ra1.25



MD215A

MD215A		
Bore Dia Ground	mm	Φ3-50
Max. Grinding depth	mm	80
Swing of workpiece	with guard without guard	mm mm
Max. Sweivel of workhead	degree	30
Work speed	rpm	280,400,560,800
Wheel speed	rpm	16000-24000, 48000-60000
Max. OD of end face grinding	mm	150
Wheel speed	rpm	8000
Total Power of machine	kw	9.74
Work motor	kw	0.45/0.75
Wheel Motor	kw	1-2
machine weight	kg	2500
Overall dimension	mm	1580x1450x1560
Working accuracy		
Bore roundness	mm	0.003
Cylindricity	mm	0.003
Size deviation of bore	mm	
Surface roughness of bore	um	Ra0.63
Flatness of endface (flat or concave)	mm	0.002
Surface roughness of endface	um	Ra1.25

## MAIN SPECIFICATIONS



MB215A

MB215A		
Bore Dia Ground	mm	Φ3-50
Max. Grinding depth	mm	80
Swing of workpiece	with guard without guard	mm mm
Max. Sweivel of workhead	degree	30
Work speed	rpm	285,400,565,790
Wheel speed	rpm	16000-24000, 48000-60000
Max. OD of end face grinding	mm	
Wheel speed	rpm	8000
Total Power of machine	kw	8.34
Work motor	kw	0.45/0.75
Wheel Motor	kw	1-2
machine weight	kg	3000
Overall dimension	mm	2900x1650x2000
Working accuracy		
Bore roundness	mm	0.003
Cylindricity	mm	0.003
Size deviation of bore	mm	0.02(within certain length)
Surface roughness of bore	um	Ra0.63
Flatness of endface (flat or concave)	mm	0.002
Surface roughness of endface	um	Ra1.25



MBD215A

MBD215A		
Bore Dia Ground	mm	Φ3-50
Max. Grinding depth	mm	80
Swing of workpiece	with guard without guard	mm mm
Max. Sweivel of workhead	degree	30
Work speed	rpm	285,400,565,790
Wheel speed	rpm	16000-24000, 48000-60000
Max. OD of end face grinding	mm	150
Wheel speed	rpm	8000
Total Power of machine	kw	8.34
Work motor	kw	0.45/0.75
Wheel Motor	kw	1-2
machine weight	kg	3000
Overall dimension	mm	2900x1650x2000
Working accuracy		
Bore roundness	mm	0.003
Cylindricity	mm	0.003
Size deviation of bore	mm	0.02(within certain length)
Surface roughness of bore	um	Ra0.63
Flatness of endface (flat or concave)	mm	0.002
Surface roughness of endface	um	Ra1.25

## INTERNAL GRINDING MACHINE

## MAIN SPECIFICATIONS



M2110C

			M2110C
Bore Dia Ground	mm		Φ6-100
Max. Grinding depth	WHEN 6mm	mm	9
	WHEN 100mm	mm	150
Swing of workpiece	with guard	mm	260
	without guard	mm	480
Max. Sweivel of workhead	degree		20
Work speed	rpm		180-500(4 Steps)
Wheel speed	rpm		10000, 18000, 24000
Max. Table travel	mm		550
Table speed/griding dressing	rpm		1.5-6/0.01-1
Feed resolution	mm		0.002
Total power	kw		3.8
machine weight	kg		1600
Overall dimension	mm		2363x1260x1310
Working accuracy			
Roundness	um		2.5
Cylindricity	um		4
Roughness	um		Ra0.63

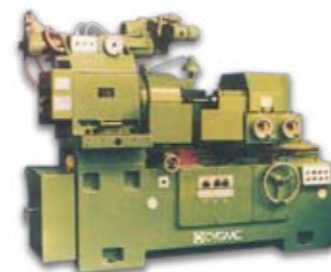
			M2110B
Bore Dia Ground	mm		Φ15-100
Max. Grinding depth	WHEN 100mm	mm	125
	with guard	mm	315
Max. Sweivel of workhead	degree		30
Work speed	rpm		140,280,400,800
Wheel speed	rpm		8500, 10000, 14000, 18000, 24000, 28000
Face Wheel speed	rpm		16000
Max. Table travel	mm		500
Max. Travel of face grind table	mm		290
Table speed/griding dressing	rpm		1.5-5/0.1-1.5
Feed resolution	mm		0.000
Total power	kw		8.5
machine weight	kg		5000
Overall dimension	mm		2600x2500x2100
Working accuracy			
Roundness	um		3
Cylindricity	um		5
Roughness	um		Ra0.4 (Endface) Ra0.8

			MK2110
Bore Dia Ground	mm		Φ15-100
Max. Grinding depth	WHEN 100mm	mm	125
Swing of workpiece	without guard	mm	400
Max. Sweivel of workhead	degree		-15 TO 45
Work speed	rpm		100-800 stepless
Wheel speed	rpm		12000-42000
Max. Table travel	mm		Z axis 450, X axis 200
Max. Travel of face grind table	mm		
Table speed/griding dressing	rpm		Z axis 0.1-5, X axis 0-24
Feed resolution	mm		Z axis 0.001, X axis 0.0005
Total power	kw		7.5
machine weight	kg		4000
Overall dimension	mm		2600x1300x1700
Working accuracy			
Roundness	um		3
Cylindricity	um		3
Roughness	um		Ra0.63

## MAIN SPECIFICATIONS



M2120A



MD2120A



MGD2120B

			M2120A	MD2120A	MGD2120B
Bore Dia Ground	mm		Φ50-200	Φ50-200	Φ50-200
Max. Grinding depth	WHEN 50mm	mm	70	70	50
	WHEN 200mm	mm	200	200	200
Swing of workpiece	with guard	mm	400	400	400
	without guard	mm	600	530	600
Max. Sweivel of workhead	degree		30	30	30
Work speed	rpm		180-500 (Stepless)	180-500 (Stepless)	180-500 (Stepless)
Wheel speed	rpm		4000, 5000, 6000, 8000, 11000	4000, 5000, 6000, 8000, 11000	4000, 5000, 6000, 9000, 11000
Face Wheel speed	rpm			4650	4500
Max. Table travel	mm		600	600	550
Table speed/griding dressing	rpm		0.1-6/0.1-2	0.1-6/0.1-2	1.5-6/0.1-2
Feed resolution	mm		0.002	0.002	0.0005 per step of step motor
Total power	kw		8.6	8.89	9
machine weight	kg		3400	3500	3500
Overall dimension	mm		2100x2120x1320	2100x2120x1320	2800x1700x1500
Working accuracy					
Roundness	um		3	3	1.5
Cylindricity	um		8	8	3
Roughness	um		Ra0.63	Ra0.63	Ra0.16

## MAIN SPECIFICATIONS



M250A

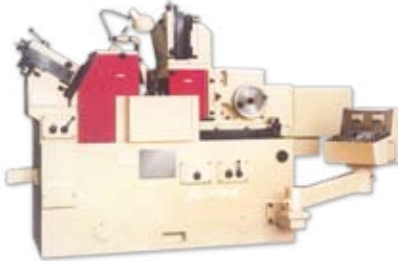
			M250A
Bore Dia Ground	mm		Φ150-500
Max. Grinding depth	mm		450
Swing of workpiece	with guard	mm	510
	without guard	mm	725
Max. Sweivel of workhead	degree		15
Work speed	rpm		28,38,57,160,212,320
Wheel speed	rpm		2450, 4200
Center height of machine	mm		1200
Total Power of machine	kw		8.92
machine weight	kg		4500
Overall dimension	mm		3760x1650x1830
Working accuracy			
Roundness	mm		0.005
Cylindricity	mm		0.008

## CENTERLESS GRINDING MACHINE

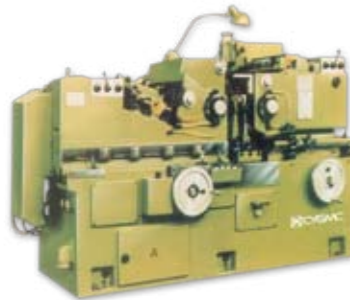
### MAIN SPECIFICATIONS



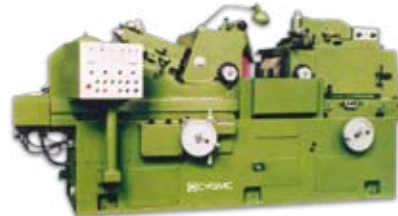
M1020A



M1050A



M11000A



MW10200



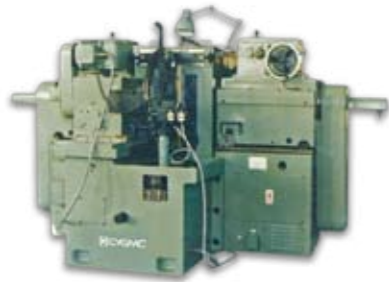
M10300

			M1020A	MG1020	MT1040	M1050A	MG1050A	MS1080
Grinding dia	Thru-feed	mm	Φ0.5-20	Φ0.5-20	Φ2-40	Φ5-50	Φ5-50	Φ5-80
	Plunge feed	mm	Φ3-20	Φ3-20	Φ7-40	Φ7-50	Φ5-50	Φ5-80
Grinding Length	Thru-feed	mm	80	80	140	120	200	200
	Plunge feed	mm	80	80	120	120	145	145
Grinding wheel size		mm	P300x100x127	PSA300x100x127	PSA350x125x127	P400x150x203	P500x150x305	P500x150x305
Regulating wheel size		mm	PSA200x100x75	PSA200x100x127	PSA250x125x75	PSA300x150x127	PSA300x150x127	PSA300x150x127
Grinding wheel speed		rpm	2100	1920	1870	1668	1300	1650
Regulating wheel speed		rpm	10-180	20-210	20-180	20-200	10-290	12-190
Regulating wheel swivel angle	In vertical plane	degree	-2 to 4	-1 to 4	-2 to 4	-2 to 5	-2 to 7	-2 to 5
	In Horizontal plane	degree	-1 to 3	-1 to 3	0 to 3	-1 to 3	0 to 3	0 to 3
Feed rate of handwheel perdivision		mm	0.002	0.001	0.002	0.002	0.001	0.002
height from centerline of Gri wheel & reg. Wheel to workrest		mm	170	155	190	220	200	200
Total power		kw	5.35	5.75	9.23	13.8	16.1	18
Machine weight		kg	2000	2000	2000	2800	5000	5000
Overall dimension		mm	1750x1290x1350	1800x1250x1350	1550x1300x1400	1920x1681x1479	3550x2700x2000	3400x2065x1770
Working accuracy								
Roughness		um	2	1	2	2	1	2
Cylindricity		um	2	1.2	3	3	1.8	3
Roughness		um				Ra0.32	Ra0.16	Ra0.32

			M10100	MS10100	M11100A	MW10200	M11200	M10300
Grinding dia	Thru-feed	mm	Φ10-100	Φ10-100	Φ10-100	Φ10-200	Φ30-200	Φ50-300
	Plunge feed	mm	Φ10-100	Φ10-100	Φ10-100	Φ10-200	Φ30-200	Φ50-300
Grinding Length	Thru-feed	mm	210	195	300	300	300	less than 300
	Plunge feed	mm	195	195	390	290	590	480
Grinding wheel size		mm	P500x200x305	P600x200-250x305	P500x400x305	P600x300x305	P500x600x305	P500x600x305
Regulating wheel size		mm	PSA350x200x127	P350x250x203	P350x400x203	PSA400x380x225	P350x600x203	P350x600x203
Grinding wheel speed		rpm	1250	1433	1330	1110	1330	1105
Regulating wheel speed		rpm	12-200(Stepless)	10-300(stepless)	12-200 (stepless)	12-200 (stepless)	12-200 (stepless)	12-200 (stepless)
Regulating wheel swivel angle	In vertical plane	degree	-2 to 5	-2 to 5	-2 to 4	-2 to 5	-2 to 5	0-5
	In Horizontal plane	degree	0 to 3	-1 to 3	-2 to 4	2 to 3	0 to 3	0-2.5
Cross movement of regulating wheel		mm		-5 to 5	-15 to 15			
Feed rate of handwheel perdivision		mm	0.002	0.001	0.002	0.002	0.002	
height from centerline of Gri wheel & reg. Wheel to workrest		mm	255	220	290	290	290	
Total power		kw	21	37	26	42.6	40.7	45
Machine weight		kg	4500	7000	10000	10000	10000	12500
Overall dimension		mm	2675x1505x1615	3408x1422x1901	4100x400x1700	3670x1558x1718	3500x1850x1720	5600x3940x2200
Working accuracy								
Roughness		um	2	2	2	2	3	5
Cylindricity		um	3	3	5	4	5	7
Roughness		um	Ra0.32	Ra0.32	Ra0.32			Ra0.63

## DOUBLE DISC GRINDING MACHINE

### HORIZONTAL SPINDLE DOUBLE DISC GRINDER



MY7650



MMY7660

		MY7650	MMY7660
Workpiece Dia	mm	Φ3-60	Φ7-70
Workpiece Thickness	mm	5-60	6-60
Wheel Size (Odxwxid)	mm	500x75x305	585x65x268
Wheelhead Spindle Rotating Speed	rpm	900	950
Wheelhead Travel	mm	135	
Loading Speed	rpm	0.5-2.5	1-7
Wheelhead Grinding-Feed	mm	0.005-0.04	0.0025-0.02
Wheelhead Dressing-Feed	m/min	0.005-0.04	0.0025-0.02
Total Motor Power	kw	17.55	18.5x2
Net Weight	kg	5000	6800
Overall Dimension	mm	3010x1500x1700	2950x1800x1720
Working accuracy			
Parallel Difference Between The Two Surface	mm		0.002
Length Difference Of Workpiece	mm		0.02
Roughness Of Workpiece	um	Ra0.63	Ra0.25



MZ7650



MZ7660J



M7675A

		MZ7650	MZ7660J	M7675A
Workpiece Dia	mm	Φ26-100	Φ20-100	Φ55-180
Workpiece Thickness	mm	3-28	3-50	2.4-50
Wheel Size (Odxwxid)	mm	500x60x20	600x65x20	750x60x50
Wheelhead Spindle Rotating Speed	rpm	1060	950	750
Wheelhead Travel	mm	120		182
Loading Speed	rpm	2.5-10	2.5-10	10-32
Wheelhead Grinding-Feed	mm	0.005-0.04	0.005	0.005-0.004
Wheelhead Dressing-Feed	m/min	0.005-0.04	0.005-0.05	0.005-0.004
Total Motor Power	kw	23.75	11	37.8
Net Weight	kg	5000	6500	8000
Overall Dimension	mm	2965x2155x1700	2950x1910x1720	4100x2570x1645
Working accuracy				
Parallel Difference Between The Two Surface	mm	0.006	0.004	0.01
Length Difference Of Workpiece	mm	≤50	≤50	30-100
Roughness Of Workpiece	um	Ra0.63	Ra0.32	Ra0.63

### VERTICAL SPINDLE DOUBLE DISC GRINDER

		M7750	MY7760	M7775
Workpiece Dia	mm	Φ30-100	Φ30-135	Φ75-180
Workpiece Thickness	mm	1.7-25	3-40	3
Wheel Size (Odxwxid)	mm	500x75x20	600x75x127	750x63x350
Wheelhead Spindle Rotating Speed	rpm	950	333-950	-
Wheelhead Travel	mm	155/70	155/70	50
Loading Plate Rotating Speed	rpm		2-8	
Loading Speed	rpm	3-20		16-32
Wheelhead Grinding-Feed	mm	0.0025-0.025	0.0025-0.025	
Wheelhead Dressing Speed	rpm	0.5-1.5	0.5-1.5	
Total Motor Power	kw	23.99	25.04	17.9
Net Weight	kg	5000	6200	11300
Overall Dimension	mm	2500x2300x3000	2610x1460x2665	2890x2865x2928
Working accuracy				
Uniformity Of Thickness	um	10	20	12-15
Roughness	um	Ra0.63	Ra0.63	Ra0.63



M7750



MY7760

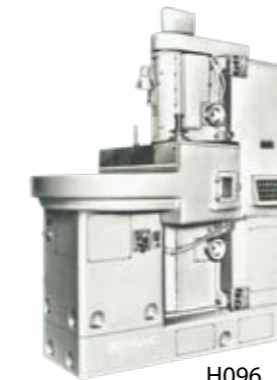


M7775

### VERTICAL SPINDLE DOUBLE DISC GRINDER



H186



H096

		H186	H096
Workpiece Dia	mm	Φ40	Φ5-100
Workpiece Thickness	mm	150	20-180
Wheel Size (Odxwxid)	mm	400x50x250	600x60x50
Wheelhead Spindle Rotating Speed	rpm	1420	950
Wheelhead Travel (Up/Down)	mm	190/50	220/120
Loading Plate Rotating Speed	rpm	0-5	1-16
Loading Plate Dia	mm	260	1320
Wheelhead Grinding-Feed	mm		3.6
Wheelhead Dressing Feed	rpm		0.1
Total Motor Power	kw	6.69	26
Net Weight	kg	1000	8600
Overall Dimension	mm	650x500x1920	2900x1455x2925
Working accuracy			
Spring Perpendicularity	degree	1	1
Roughness	um	Ra6.3	Ra6.3

## THREAD GRINDING MACHINE

### UNIVERSAL THREAD GRINDING MACHINE

			S7520A	SK7520	
Max.Diameter of workpiece	External	mm	Φ200	Φ200	
	Internal	mm	dia.160	dia.160	
center distance		mm	750	750	
center height		mm	120	120	
Thread Dia. ground	External	Single-rib wheel	mm	dia2-200	
		Multi-rib wheel	mm	dia.4-120	
	Internal		mm	dia.25-125	
			mm	dia.25-125	
Max. length to be ground	External	Single-rib wheel	mm	500	
		Multi-rib wheel	mm	460	
	Internal		mm	75	
			mm	75	
Pitch ground	External	V-type thread	Single-rib wheel	mm	0.25-24
			Multi-rib wheel	mm	1-6
		British	T/INCH	3-28	3-28
		Metric	mm	2-24	2-24
		Module	mm	0.3-20π	0.3-20π
Internal	V-type thread	mm	0.5-6	0.5-6	
Max taper of thread ground		mm	1:5		
Max. Helix angle of thread ground	External	degree	+/-30	+/-30	
	Internal	degree	+/-6	+/-6	
Number of starts			1-36, 1-42, 1-48	1-99 (free)	
Amount of relief		mm	0.03-4		
Work spindle rotation	in grinding	rpm	0.2-25, 0.8-100	0-70	
	in rapid movement	rpm	25, 100		
Max. Longitudinal traverse of table		mm	510	510	
wheel spindle rotation	External	rpm	1670, 2145	1670, 2145	
	Internal	rpm	5745, 8100, 14400, 18400	5745, 8100, 14400, 18400	
machine weight		kg	5800	5800	
overall size		mm	2500x1800x1800	2500x1800x1800	
Pitch accuracy	single	μm	+/-3	+/-3	
	25mm	μm	+/-5	+/-5	
	100mm	μm	+/-6	+/-6	
	300mm	μm	+/-9	+/-9	
	total length	μm	+/-10	+/-10	



S7520A

### INTERNAL GRINDING MACHINE

			S7620A	S7632A	S7640
Max chuck dia		mm	Φ300	Φ500	Φ600
Max.workpiece length		mm	200	200	400
Center Height		mm	200	250	320
Thread Dia ground	V-type	mm	Φ25-200	Φ60-320	Φ150-400
	Circular	mm	Φ25-100		Φ150-280
Max. thread length ground	conical	mm	80	120	120
	cylindrical	mm	125	150	350
Thread pitch ground	Metric	mm	1-24	1-24	1.5-60
	British	T/inch	3/1" - 20/1"	1/1" - 12/1"	3/1" - 20/1"
Max Helix angle of thread ground		degree	+8, -12	+/-10	+/-8
Number of starts			1,2,3,4	1,2,3,4	1,2,3,4
Work rotation	in grinding	rpm	0.3-15, 0.6-30	0.6-30	0.5-10
	in rapid return	rpm	60, 100	30	30
Max.longitudinal traverse of table		mm	440	400	750
Cross movement of wheelhead		mm	0-60	0-60	0-205
Wheel spindle rotation speed		rpm	7000, 9000, 14000, 18000	6000, 1500	4000-10000
machine weight		kg	4000	4500	5800
For V-typed thread with one pitch not more than 6mm	Adjacent	mm	+/-0.003	+/-0.003	+/-0.005
	on 25mm	mm	+/-0.005	+/-0.005	+/-0.007
	on 100mm	mm	+/-0.006	+/-0.006	+/-0.009



S7632A



## THREAD GRINDING MACHINE

### WORM GRINDING MACHINE



S7720A

		S7720A		S7732x1500	
Max. dia of workpiece	mm	Φ200	Φ320		
Max. center of distance	mm	750	1500		
center height	mm	120	180		
Max. Dia ground	mm	Φ200	Φ200		
Max. length ground	mm	500	1000		
Pitch ground	Module	mm	1.2-12	1.5-20	
	Metric	mm	1-24	3-24	
	British	T/inch	3/1" - 24/1"	2/1" 0 6/1"	
Max. lead ground	mm	150	300		
Max. Helix angle ground	degree	+/-30	+40, -35		
Number of starts			1,2,3,4,6,8,10,12	1,2,3,4,6,8,10,12	
work spindle speed	For grinding	rpm	0.2-4, 0.8-16	0.2-4, 0.8-16	
	For rapid return	rpm	1-5, 4-20	1-5, 4-20	
	For indexing	rpm	4	4	
wheel spindle speed	rmp	1340, 1480	1340, 1480		
Cross traverse of wheel stock	mm	150	157		
Total power					
Machine weight					
Overall dimension	mm	2500x1774x1800	4130x2227x1750		
working accuracy					
For grinding worms with 1-2 stars	grade	5	5		
For grinding worms with 3 and above stars	grade	6	6		
For grinding leadscrew with pitch less than 6mm	grade	6	6		

### INTERNAL GRINDING MACHINE



S7432

		S7432x1500		S7432x2000		S7432x3000	
Max. dia of workpiece	mm	Φ320	Φ320	Φ320			
Max. center of distance	mm	1500	2000	3000			
center height	mm	180	180	180			
Max. Dia ground	mm	Φ250	Φ250	Φ250			
Max. length ground	mm	1360	1800	2800			
Pitch ground	Module	mm	1-18π	1-18π	1-18π		
	Metric	mm	1.5-48	1.5-48	1.5-48		
	British	T/inch	2/1" - 18/1"	2/1" - 18/1"	2/1" - 18/1"		
Max. Helix angle ground	degree	+/-25	+/-25	+/-25			
Number of starts			2,3,4,6, 8,10,12	2,3,4,6, 8,10,12	2,3,4,6, 8,10,12		
work spindle speed	For grinding	rpm	0.5-60	0.5-60	0.5-60		
wheel spindle speed	rpm	1240, 1480	1240, 1480	1240, 1480			
Cross traverse of wheel stock	mm	165	165	165			
Total power							
Machine weight	kg	8500	10500	12500			
Overall dimension	mm	4495x2270x2020	5415x2275x2020	7630x2195x2020			
working accuracy							

## GEAR GRINDING MACHINE

### GEAR GRINDING MACHINE WITH CONE GRINDING WHEEL



Y7163A

		Y7163A	
Dia	mm	Φ50(root)-630(tip)	
Number of teeth		12-140	
Module	mm	2-12mm	
Max. face width (spur gear)	mm	215	
Max. Helix angle	degree	+/-45	
Distance from column workable surface	mm	570	
Distance between two centers	mm		
Total power of motor	kw	8	
Machine weight	kg	6500	
Overall size	mm	2597x2186x2012	

### WORM WHEEL GEAR GRINDING MACHINE



YE7232

		YE7232	
Outside Dia	mm	Φ20-320	
No of teeth: Single star		12-130	
No of teeth: Double star		24-260	
Module: single start	mm	1-6	
Module: Double start	mm	1-3	
Max. facewidth (spur gear)	mm	170	
Max. helix angle	degree	+/-45	
Distance between center	mm	180-420	
Max. Travel of work slide stroke	mm	180	
Total power of motor	kw	20	
Machine weight	kg	6000	
Overall size	mm	2170x1595x2100	

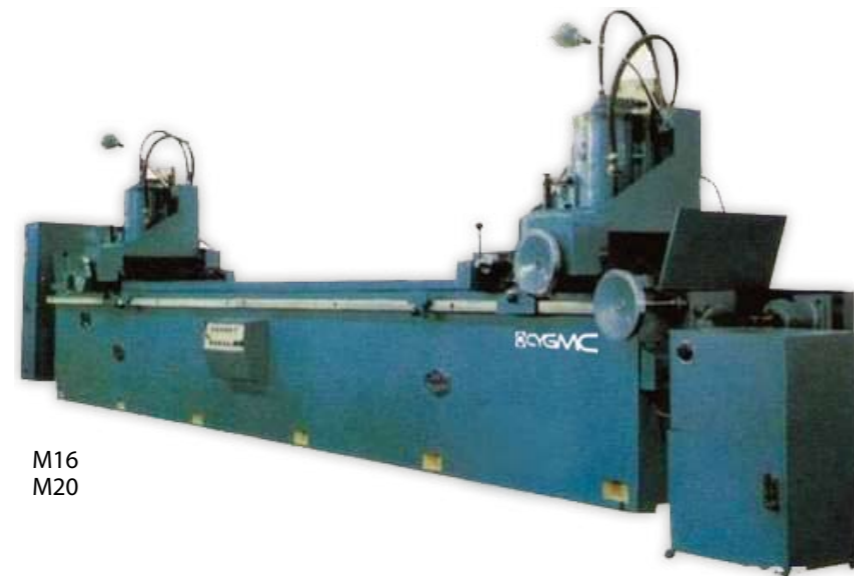
		YK7232A	
Outside Dia	mm	Φ20-320	
No of teeth: Single star		12-256	
No of teeth: Double star			
Module: single start	mm	1-6	
Module: Double start	mm		
Max. facewidth (spur gear)	mm	170	
Max. helix angle	degree	+/-45	
Distance between center	mm	180-420	
Max. Travel of work slide stroke	mm	180	
Total power of motor	kw	20	
Machine weight	kg	6000	
Overall size	mm	2650x1950x2100	

## KNIFE GRINDING MACHINE

### KNIFE GRINDING MACHINE

		M16x11	M16x15	M16x23	M16x30	M16x36	M16x43	M16x50	M16x60
Working table eare	mm	160x1100	160x1500	160x2300	160x3000	160x3600	160x4300	160x5000	160x6000
Grinding passageway height	mm	160	160	160	160	160	160	160	160
Grinding wheel size(ODxDxT)	mm	200x150x100	200x150x100	200x150x100	200x150x100	200x150x100	200x150x100	200x150x100	200x150x100
Vertical speed of grinding	m/min	3-20	3-20	3-20	3-20	3-20	3-20	3-20	3-20
Driving		Frequency conversion or Hydraulic							
Return angle of Grinding table	Degree	+/- 90	+/- 90	+/- 90	+/- 90	+/- 90	+/- 90	+/- 90	+/- 90
Return angle of Grinding head	Degree	+/- 4	+/- 4	+/- 4	+/- 4	+/- 4	+/- 4	+/- 4	+/- 4
Total Power of machine	Kw	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85
Machine weight	kg	1800	2000	2200	2400	3000	3400	3700	4000
Overall dimension	mm	2860x930x1360	3260x930x1360	4060x930x1360	4810x930x1360	5360x930x1360	6060x930x1360	6760x930x1360	7760x930x1360

		M20x11	M20x15	M20x23	M20x30	M20x34	M20x46	M20x53	M20x61	M20x73
Working table eare	mm	200x1100	200x1500	200x2300	200x3000	200x3400	20x4600	20x5300	200x6100	20x7300
Grinding passageway height	mm	180	180	180	180	180	180	180	180	180
Grinding wheel size(ODxDxT)	mm	300x250x100	300x250x100	300x250x100	300x250x100	300x250x100	300x250x100	300x250x100	300x250x100	300x250x100
Vertical speed of grinding	m/min	4-20	4-20	4-20	4-20	4-20	4-20	4-20	4-20	4-20
Driving		Frequency conversion or Hydraulic								
Return angle of Grinding table	Degree	+/- 90	+/- 90	+/- 90	+/- 90	+/- 90	+/- 90	+/- 90	+/- 90	+/- 90
Return angle of Grinding head	Degree	+/- 4	+/- 4	+/- 4	+/- 4	+/- 4	+/- 4	+/- 4	+/- 4	+/- 4
Power of Grinding head	Kw	11	11	11	11	11	11	11	11	11
Total Power of machine	Kw	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	14
Machine weight	kg	3100	4000	5300	4800	6200	5300	5800	7200	7900
Overall dimension	mm	3960x1570x1650	4460x1570x1650	5110x1570x1650	5860x1730x1650	6260x1570 1650	7460x1730x1650	8210x1570x1650	9010x1730x1650	10160x1730x1650



M16  
M20

		MA32x45	MAS32x45
Working table eare	mm	4500x320	4500x320
Grinding passageway height	mm	250	250
Max. linear velocity of emery wheel	m/min	45	45
Driving		Hydraulic	Frequency conversion
Power of Grinding head	Kw	45	45
Total Power of machine	Kw	50.3	50.3
Machine weight	kg	14620	14620
Overall dimension	mm	9020x2910x2740	9020x2910x2740
Equivalent thick error limit	mm	0.05	0.05
Surface roughness of workpiece	um	0.8	0.8

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