

Manual Surface Grinding Machine



		13807	13808	13809	13810
Main parameters	Unit	MSG618	MSG818	MSG250	MSG230
Max. size of workpiece be ground (LxWx H)	mm	500 x 190 x 335	540 x 220 x 450	540 x 240 x 490	520 x 240 x 490
Max. grinding length	mm	550	520	540	520
Max. grinding width	mm	190	220	240	230
Distance from table surface to spindle center	mm	335	450	490	460
Max. loading capacity	kg	200	180	250	230
Table size (L x W)	mm	460 x 180	480 x 200	540 x 250	520 x 230
Number of T-Slot	mm x n	12 x 1	12 x 1	12 x 1	14 x 1
Speed of working	m/min	3-23	3-23	3-23	3-23
Cross feed on handwheel	mm	0.02/Graduation 2.5/revolution	0.02/Graduation 2.5/revolution	0.02/Graduation 2.5/revolution	0.02/Graduation 2.5/revolution
Vertical feed on Handwheel	mm	0.01/Graduation 1.25/revolution	0.01/Graduation 1.25/revolution	0.01/Graduation 1.25/revolution	0.01/Graduation 1.25/revolution
Wheel size (dia. x width x bore)	mm	200 x 16 x 31.75	200 x 16 x 31.75	200 x 16 x 31.75	200 x 16 x 31.75
Spindle speed	50Hz rpm	2850	2850	2850	2850
Spindle moto	Kw	1.1	1.1	1.1	1.1
Coolant pump	Kw	0.4	0.4	0.4	0.4
Minimum of numerical display	mm				
Machine size (L x W x H)	mm	1550 x 1060 x 1590	1680 x 1140 x 1800	1800 x 1400 x 1800	1600 x 1400 x 1850
Packing size (L x W x H)	mm	1060 x 1170 x 1870	1140 x 1280 x 1960	1960 x 1630 x 1870	1650 x 1450 x 1870
Gross net (Weight)	T	0.75 0.65	0.80 0.70	0.90 1.00	0.80 0.90
Old model		M618A	M818A	M250	M230

Hydraulic Surface Grinding Machine



Charactor:

X Hydraulic
Y/Z Motorized

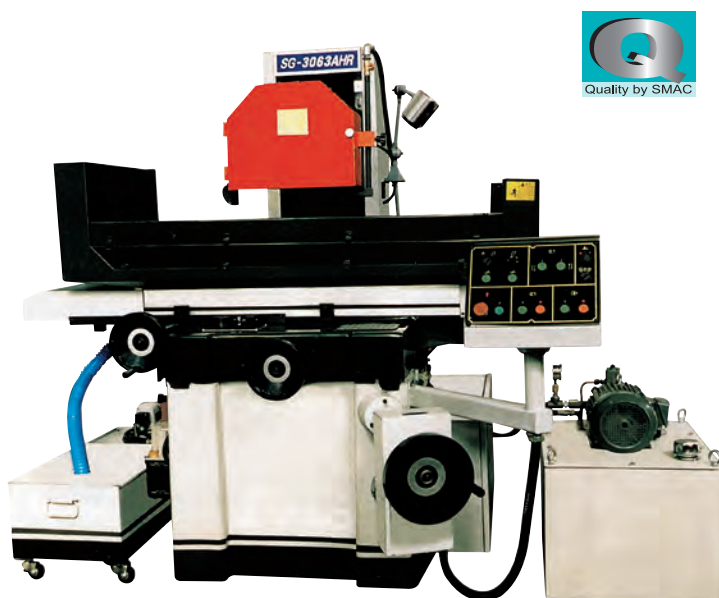
Standard equipment:

Coolant tank
Electro magnetic chuck
Wheel dresser base
Flange and wheel extractor
Standard wheel
Balance arbor
Working lamp
Leveling wedge and foundation bolt



		13915	13916	13917	13918
Model		M400	M300	M250	M200
Longitudinal travel	mm	800	660	510	650
Cross traverse	mm	350	370	270	240
Distance between table & spindle center	mm	400	450	450	450
Working surface	mm	775 x 325	600 x 300	500 x 250	600 x 200
Table speed up to 15m/min	m/min	7-25	5-25	5-25	5-25
L.C. Of cross feed hand wheel 10μ	μ	20	20	20	20
L.C. Of vertical feed hand wheel 2μ	μ	5	5	5	5
Auto cross feed at each table reversal	mm/stroke	0.25-6	0.25-6	0.25-6	0.25-4
Grinding head					
Size of wheel	mm	250 x 250 x 76.2	250 x 25 x 31.75	200 x 20 x 31.75	250 x 25 x 31.75
Spindle power	HP	5	3	4	3
Grinding spindle speed	rpm	2850	2850	2850	2850
Hydraulic pressure motor	HP	2	2	2	2
Overall size	mm	235 x 185 x 190	216 x 165 x 190	195 x 150 x 190	213 x 150 x 190
Weight	kg	2600	2100	1800	1700

Saddle Moving Horizontal Shaft & Rectangular Table Surface Grinder



Standard equipment:

Coolant tank
Electro magnetic chuck
Wheel dresser base
Flange and wheel extractor
Standard wheel
Balance arbor
Working lamp
Leveling wedge and foundation bolt
Normal electro magnetic chuck controller
PLC auto grinding controller (only for AHD model)

Optional equipment:

Balancing stand
Manual parallel wheel dresser
Coolant tank with magnetic separator
Coolant tank with paper filter
Coolant tank with paper filter and magnetic separator
Dust collector
Luxurious electro magnetic chuck controller

Notice:

1. H mean: hydraulic transmission on longitudinal, manual on transverse and vertical
2. AH mean: auto feed on transverse, hydraulic transmission on longitudinal, manual on overtable.
3. AHR mean: auto feed on transverse, hydraulic transmission on longitudinal, rapid movement on vertical.
4. AHD mean: auto feed on transverse, hydraulic transmission on longitudinal, auto feed on vertical.

Description		Unit	13807-1	13806-1	13805-1	13805-2	13803-1	13803-2
			SG-2050H/AH	SG-2550AH	SG-3063AH	SG-30100AH	SG-4080AH	SG-40100AH
			SG-2050AHR	SG-2550AHR	SG-3063AHR	SG-30100AHR	SG-4080AHR	SG-40100AHR
			SG-2050AHD	SG-2550AHD	SG-3063AHD	SG-30100AHD	SG-4080AHD	SG-40100AHD
Table size (W x L)		mm	200 x 460	250 x 500	305 x 635	305 x 1020	406 x 813	406 x 1020
Table travel (X x Y)		mm	510 x 238	560 x 275	765 x 340	1130 x 340	913 x 450	1130 x 450
Max. distance from spindle center to table		mm	450	450	580	580	580	580
Magnetic chuck size		mm	200 x 460	250 x 500	300 x 600	300 x 1000	400 x 800	400 x 1000
Speed of table longitudinal movement		m/min	7-23					
transverse movement	Auto feed	mm/min	0.1-8					
	Rapid speed	m/min	990					
	Feed of handwheel	mm/div.	0.02					
Wheelhead vertical movement	Auto feed	mm	(AH/AHR model)/0.05/0.01/0.02/0.03/0.04/0.05(only AHD model)					
	Rapid speed	mm/min	(AH model)/460(AHE/AHD model)					
	Feed of handwheel	mm/div.	0.05					
Grinding wheel	Speed	rpm	2850 (50Hz)	3450(60Hz)	1450 (50Hz) 1750(60Hz)			
	size (OD x W x ID)	mm	200 x 20 x 31.75		350 x 40 x 127			
Spindle motor		kw	1.5	2.2	5.5			
Hydranlic motor		kw	0.75		2.2			
Cooling pump motor		kw	0.04		0.125			
Elevating motor		kw	(AH/AHR model)/0.25 (AHR model)/0.05(AHD model, servo motor)					
Cross feed motor		kw	0.04					
Max. loading capacity of table (include chuck)		kg	120	180	270	400	500	600
Total rated power		kw	3	3.7	9			
Height of machine		mm	1675		1890			
Floor space (L x W)		mm	2050 x1400	2250 x 1650	2800 x 2200	4400 x 2200	3400 x 2400	4400 x 2400
Gross weight		kg	1600	1800	2800	3500	3800	4300
Package dimensions (L x W x H)		cm	178 x 150 x 218 190 x 170 x 218	200 x 210 x 218	235 x 222 x 220	295 x 222 x 220	285 x 227 x 220	295 x 227 x 220

KENT(USA) Surface Grinder

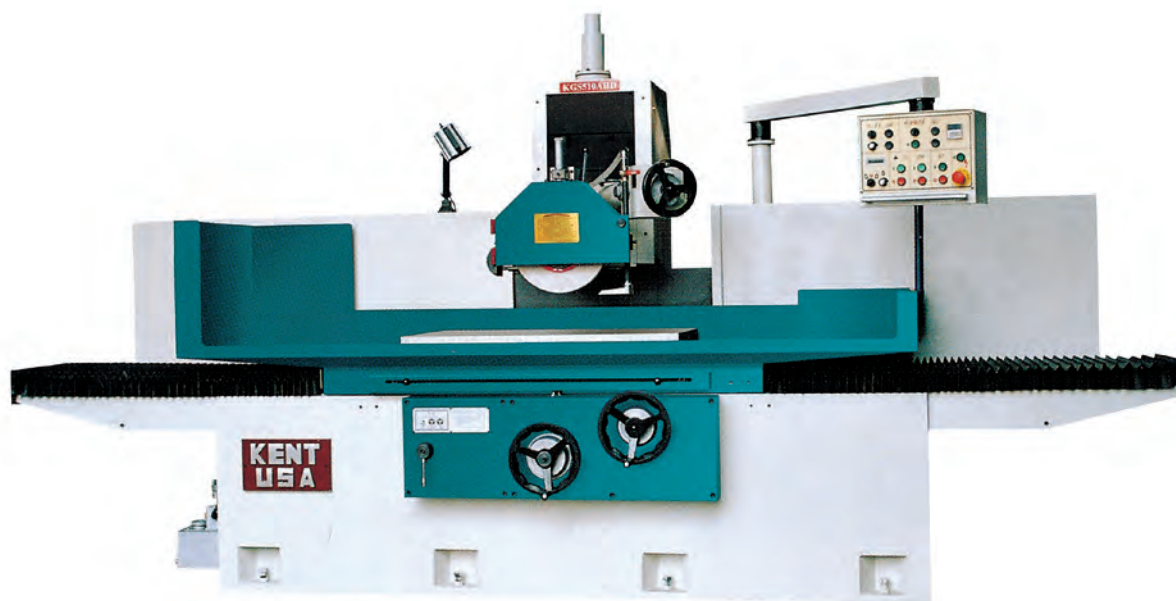


KGS1224AHR

KGS1224AHR

Parameters	Unit	52548 KGS1224SD	52549 KGS1632SD	52550 KGS510SD	52551 KGS1224AH/AHD/SD	52552 KGS1632AH/AHR/AHD/SD	52553 KGS1640AH/AHR/AHD/SD
Working Surface of Table	mm	300x600	400x800	500x1000	300x600(12"x24")	400x800(16"x32")	400x1000(16"x40")
Max. Table Travel	mm	660	920	1140	660	920	1120
Max. Cross Travel	mm	370	450	540	370	450	450
Distance Between Table Surface and Spindle Center	mm	540	580	590	540	580	580
Max. Table Load	kgs	420	700	700	420	700	700
Tee Slot(NumberXWidth)	mm	1x14	3x14	3x16	1x14	3x14	3x14
Table Speed	m/min	5~25	5~25	5~25	5~25	5~25	5~25
Crossfeed Hand-wheel	1grad 1rev	0.02 5	0.02 5	0.02 5	0.02 5	0.02 5	0.02 5
Automatic Crossfeed	mm	0.5~12	0.5~12	0.5~12	0.5~12	0.5~12	0.5~12
Power Cross Feed	50Hz 60Hz	790 950	790 950	1250 1500	790 950	790 950	790 950
Grinding Wheel	mm	355x40x127	355x40x127	355x40x127	355x40x127	355x40x127	355x40x127
Spindle Speed	50Hz 60Hz	1450 1740	1450 1740	1450 1740	1450 1740	1450 1740	1450 1740
MPG Handwheel Feed Rate		x1,x10,x100	x1,x10,x100	x1,x10,x100			
Vertical Hand wheel	1grad 1rev				0.01/0.01/0.001 2/2/0.5	0.01/0.01/0.001 2/2/0.5	0.01/0.01/0.001 2/2/0.5
Min. Down Feed Rate	mm	0.001	0.001	0.001	-/-0.005~0.025	-/-0.005~0.025	-/-0.005~0.025
Power Head Increment	mm/min	210	210	210	-/380/230	-/380/230	-/380/230
Spindle Motor	kw	4.0	5.5	5.5	4	5.5	5.5
Vertical Motor	nm	3.57	3.57	2.6	-/90/90	-/90/90	-/90/90
Hydraulic Motor	kw	1.5	2.2	2.2	1.5	2.2	2.2
Dust Collection Motor	w	550	550	550	550	550	550
Coolant Motor	w	90	90	90	90	90	90
Crossfeed Motor	kw	90	90	370	90	90	90
Floor Space Dimensions	mm	2600x2500	3600x2600	4445x2200	2600x2500	3600x2600	3600x2600
Packing Dimensions	mm	2090x1940x2210	2275x2255x2210	3400x2260x2250	2090x1940x2210	2775x2255x2210	2990x2225x2210
Net Weight	kgs	1900	2800	5000	1800/1810/1910	2800x2810x2850	2900/2910/2950
Gross Weight	kgs	2200	3100	6000	2100/2100/2210	3100x3110x3150	3200/3210/3250

KENT(USA) Surface Grinder

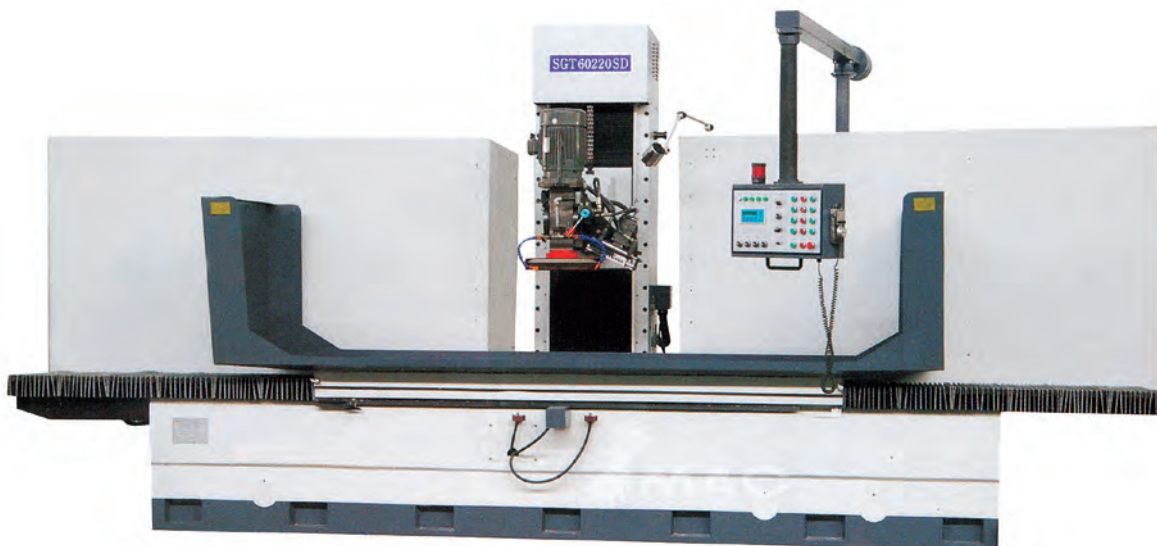


KGS510AHD



Parameters		Unit	KGS510AH/AHD	KGS515AH/AHD	KGS615AH/AHD	KGS620AH/AHD
Working Surface of Table		mm	500x1000(20"x40")	500x1500(20"x60")	600x1500(24"x60")	600x2000(24"x80")
Max.Table Travel		mm	1140	1600	1600	2230
Max.Cross Travel		mm	540	570	660	660
Distance Between Table Surface and Spindle Center		mm	590	590	600	600
Max.Table Load		kgs	700	700	800	1500
Tee Slot(NumberXWidth)		mm	3x16	3x16	3x16	3x16
Table Speed		m/min	5~25	5~25	5~25	7~25
Crossfeed Handwheel	1grad	mm	0.02	0.02	0.02	0.02
	1rev		5	5	5	5
Automatic Crossfeed		mm	0.5~12	0.5~12	0.5~12	0.5~12
Power Cross Feed	50Hz	mm	1250	1250	1250	1250
	60Hz		1500	1500	1500	1500
Grinding Wheel		mm	355x40x127	355x40x127	355x50x127	355x50x127
Spindle Speed	50Hz	rpm	1450	1450	1450	1450
	60Hz		1740	1740	1740	1740
Vertical Handwheel	1grad	mm	0.002	0.002	0.002	0.002
	1rev		0.5	0.5	0.5	0.5
Automatic Down Feed Rate		mm	0.005~0.04	0.005~0.04	0.005~0.04	0.005~0.04
Power Head Increment		mm	230	230	230	230
Spindle Motor		kw	5.5	5.5	7.5	7.5
Vertical Motor		kw	370	370	370	370
Hydraulic Motor		kw	2.2	2.2	5.5	5.5
Dust Collection Motor		w	550	550	550	550
Coolant Motor		w	90	90	90	90
Crossfeed Motor		kw	370	370	370	370
Floor Space		mm	4445x2200	58100x2445	5810x2445	6200x2700
Packing Dimensions		mm	3440x2260x2250	4000x2260x2250	-	-
Net Weight		kgs	5000	6000	6250	8500
Gross Weight		kgs	6000	7000	7250	9700

NC Column Moving Guideway Grinder



SD means:

NC servo motor is used on cross and vertical movement,hydraulic drove longitudinal movement.

Standard accessor:

Coolant tank with magnetic separator,Wheel dresser base(without diamond pen),Flange and wheel extractor,Standard wheel,Balance arbor,Balance stand,Working lamp,Leveling wedge and foundation bolt,Hydraulic angle wheel dresser,PLC grinding controller

Optional accessor:

Electro magnetic chuck.

Specifications:

Model			52538	52539	52540	52541	52542	52543
		Unit	SGT60160SD	SGT60220SD	SGT60300SD	SGT80160SD	SGT80220SD	SGT80300SD
Worktable size		mm	610x1600	610x220	610x3000	810x1600	810x2200	810x3000
Max grinding dimension(WxL)		mm	610x1600	610x2200	610x3000	810x1600	810x2200	810x3000
Max grinding height		mm	790					
Speed of table longitudinal movement		m/min	6~23					
Vertical wheel head rotating			+30°, +5°, -30°, -5°					
Wheel head cross movement	Rapid speed	m/min	0.05~2					
	Electro handwheel feed	mm/gra	0.005					
wheel head vertical movement	Rapid speed	m/min	0.05~2					
	Electro handwheel feed	mm/gra	0.005					
Wheel	Rotating speed	Rpm	1450(50HZ)					
	Size(ODxWxD)	mm	According to the technique request					
Spindle motor		Kw	5.5					
Max loading capacity(With chuck)		Kg	1230	1690	2300	1630	2240	3060
Total power		Kw	17					19
Machine height		mm	292					
Floor space(LxW)		mm	4700x3000	6000x3000	8200x3000	4700x3500	6000x3500	8200x3600
Weight		Kg	8500	9500	12500	10000	11500	14000

Column Moving Surface Grinder



Standard equipment:

Coolant tank
 Wheel dresser base
 Flange and wheel extractor
 Standard wheel
 Balance arbor
 Balance stand
 Working lamp
 Leveling wedge and foundation bolt
 Demagnetization unit
 PLC auto grinding controller (only for AHD model)



Optional equipment:

Elector magnetic chuck
 Manual parallel wheel dresser
 Coolant tank with magnetic separator
 Coolant tank with paper filter
 Coolant tank with paper filter and magnetic sparator

		13909	13910	13912	13913	13914	
Model		Unit	SG50100AHR/AHD	SG50160AHR/AHD	SG60120AHR/AHD	SG60160AHR/AHD	SG60220AHR/AHD
Table size		mm	500 x 1000	500 x 1600	610 x 1260	610 x 1600	610 x 2200
Max. grinding (Lon. x Tran)		mm	500 x 1000	500 x 1600	610 x 1260	610 x 1600	610 x 2200
Max. distance from table to spindle center		mm	600				
Standard magnetic chuck size		mm	500 x 1000 x 1	500 x 800 x 2	600 x 1000 x 1	600 x 800 x 2	600 x 1000 x
Speed of table longitudinal movement		m/min	5-25				
Wheelhead cross movement	Auto feed	mm/t	0.5-20				
	Rapid speed	m/min	1.25				
	Feed of handwheel	mm/div	0.02				
Wheelhead verical movement	Auto feed	mm/t	0.005, 0.01, 0.015, 0.002, 0.03, 0.04(only for AHD model)				
	Rapid feed	m/min	230				
	Feed of handwheel	mm/div	0.02				
Wheel	Speed	rpm	1450(50Hz), 1740(60Hz)				
	Size (OD x W x ID)	mm	355 x (20-50) x 127				
Motor of spindle		kw	7.5				
Max. loading capacity of table (include chuck)		kg	700	880	970	1230	1690
Total rated power		kw	12		14		
Height of machine		mm	2390 (include the packing base)				
Floor space (L x W)		mm	4700 x 2200	7120 x 2200	4000 x 2400	4700 x 2400	6000 x 2400
Gross weight		ka	5500	6000	6500	7000	8000

Surface Grinding Machines



Standard accesories:

Diamond pen
Wheel chuck and tool
Wheel balance arbor
Levelling wedges
Brush
Electromagnetic chuck
Manuals

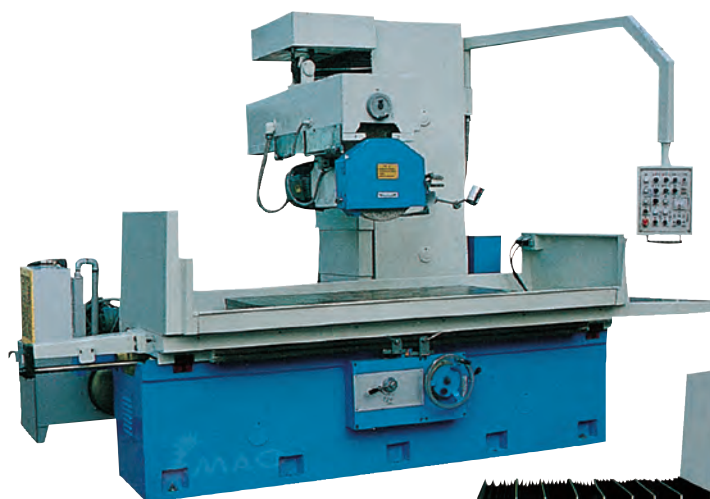
Optional accessories:

Wheel balance stand
Air cooler
Demagnetizer

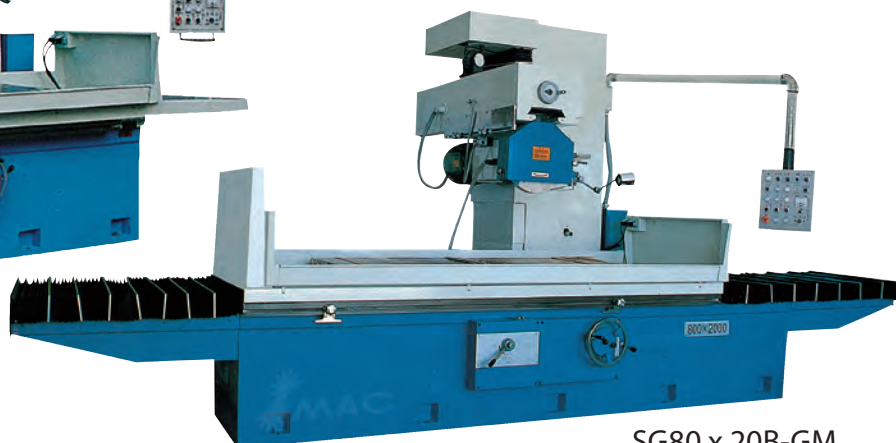


Model			13902				13903			13904			13905			13906		
		Unit	SG30	SG30A	SG30C	SG30B	SG32A	SG32B	SG32C	SG40A	SG40B	SG40C	SG50A	SG50B	SG50C	SG63A	SG63B	SG63C
Table size	W	mm	300				320			400			500			630		
	L	mm	1000/1600/2200/3000/4500															
Max. dimensions of workpiece to ground	W	mm	300				320			400			500			630		
	L	mm	1000/1600/2200/3000/4500															
	H	mm	400	400	800	1200	400	800	1200	400	800	1200	500	800	1200	500	800	1200
max distance between spindle center to table surface		mm	575	575	975	1375	575	975	1375	600	1000	1400	700	1000	1400	700	1000	1400
Table longitudinal movement speed		m/min	3~25															
Table T-slot(No* Width)		mm	3×18										3×22					
Wheel head cross moving speed	consecutive	m/min	0.5~4.5															
	intermittent	mm/t	3-30															
Wheel head Vertical moving speed	rapid	mm/min	400 (SG30/manual)															
	hand wheel	mm/gra	0.005													0.01		
Wheel head motor	power	kw	5.5							7.5						7.5		
	speed	rpm	1440															
Total power		kw	9/11							11/13.5/15.75			12.25/13.75/15.75			13.75/15.75		
Table loading		tons	0.47/0.75/1/1.4/2.1				0.5/0.8/1.1/1.5/2.2			0.6/1/1.3/1.8/2.8			0.7/1.25/1.4/2/2.9			1/1.3/1.7/2.4/3.6		
Grinding wheel size		OD×W×ID	Φ350×40×Φ127							Φ400×40×Φ127						Φ400×40×Φ203		

Surface Grinding Machines



SG80 x 16A-GM



SG80 x 20B-GM

This series of machine tool is suitable for machine-manufacture trade to grind the planes of various metal parts such as steel, cast iron and nonferrous metal, etc.

Characteristic:

A.The wheel spindle adopts high precision rolling bearing with strong rigid construction and high precision.

B.The wheel spindle adopts high precision hydrodynamic-hydrostatic bearing with strong rigid construction and high precision.

It has a special hydraulic device, automatic lubrication system and cantilever push-button device with perfect shape.

The lengthways moving of the working table is hydraulic transmission.

The transverse moving of the grind head adopts a directcurrent dynamo to drive the preision rolling ball screw assembly.

The grind head perpendicular feed is manual, and has the quick elevating mechanism. It can raise work efficiency. The working table slideway of rail is pasted the polytetra fluoroethylene soft belt. The wear-resistant is good, and the energy consumption is low.

The grinding head perpendicular feed slideway is pasted the polytetrafluoroethylene soft belt. The column has a balancer. And the feeding sensitivity is high.

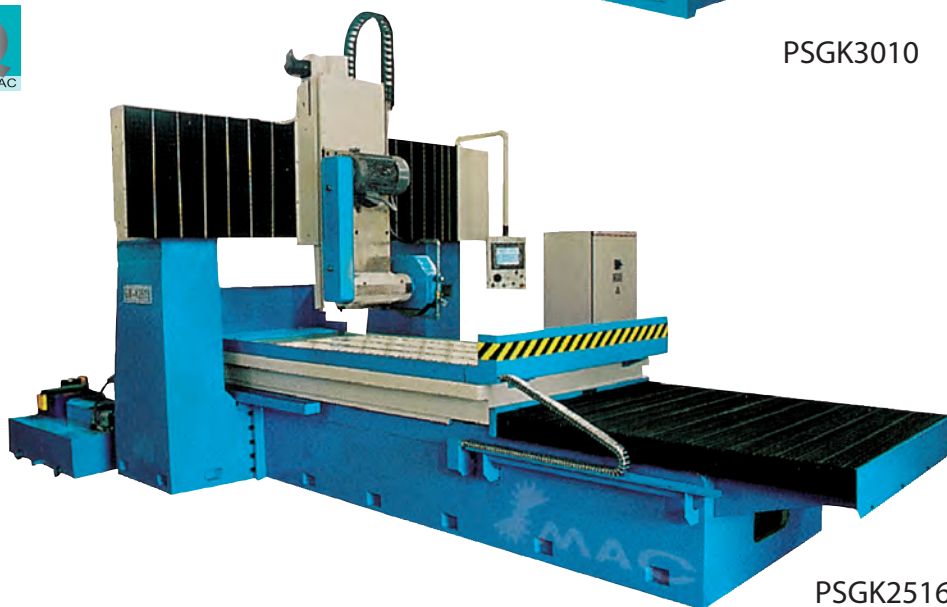
The motion of this model is smooth and steady, the function is reliable, the noise is low and the rigid construction is strong. It is convenient for users to operate.

	13908	13908-1	13908-2	13908-3	13908-4	13908-9
Main Specifications	SG80x12A-GM	SG80x16A-GM	SG80x20A-GM	SG80x12B-GM	SG80x16B-GM	SG80x20B-GM
Table working surface (WxL)	800x1250mm	800x1600mm	800x2000mm	800x1250mm	800x1600mm	800x2000mm
Max. size worke-piece to be ground (WxLxH)	800x1250x600mm	800x1600x600mm	800x2000x600mm	800x1250x600mm	800x1600x600mm	800x2000x600mm
Table longitudinal travel (hydraulic)	200-1350mm	200-1700mm	200-2100mm	200-1350mm	200-1700mm	200-2100mm
Speed of table (steplless)	3-25m/min	3-25m/min	3-25m/min	3-25m/min	3-25m/min	3-25m/min
Grinding wheel size (O.D x W x I.D)	φ450x63xφ203mm	φ450x63xφ203mm	φ450x63xφ203mm	φ450x63xφ203mm	φ450x63xφ203mm	φ450x63xφ203mm
Wheel-head rapid up-down traverse speed	325mm/min	325mm/min	325mm/min	325mm/min	325mm/min	325mm/min
Hydraulic pump Delivery	107L/min	107L/min	107L/min	107L/min	107L/min	107L/min
Electrical equipment total capacity	28kVA	28kVA	28kVA	28kVA	28kVA	28kVA
Grinding wheel motor power	15kw	15kw	15kw	15kw	15kw	15kw
Speed	1460r/min	1460r/min	1460r/min	1460r/min	1460r/min	1460r/min
Working surface to base level parallelism	300:0.008mm	300:0.008mm	300:0.008mm	300:0.008mm	300:0.008mm	300:0.008mm
Surface roughness	Ra0.63μm	Ra0.63μm	Ra0.63μm	Ra0.63μm	Ra0.63μm	Ra0.63μm
Max. allowable weight of work-piece (Including electromagnetic chuck)	2000kg	2000kg	2472kg	2000kg	2000kg	2472kg
Electromagnetic chuck	800x1250mm	800x(800x2)mm	800x(1000x2)mm	800x1250mm	800x(800x2)mm	800x(1000x2)mm
Overall dimensions (LxWxH)	3540x2350x2730mm	4500x2350x2730mm	6250x3600x2850mm	3540x2350x2730mm	4500x2350x2730mm	6250x3600x2850mm
Packing case dimensions (LxWxH)	425x246x309cm	450x246x309cm	483x259x309cm	425x246x309cm	450x246x309cm	483x259x309cm
N.W/G.W	9500/10500kg	11000/12000kg	12000/13500kg	9500/10500kg	11000/12000kg	12000/13500kg
Old model	M7180x12A-GM	M7180x16A-GM	M7180x20A-GM	M7180x12B-GM	M7180x16B-GM	M7180x20B-GM

CNC Plano Surface Machines



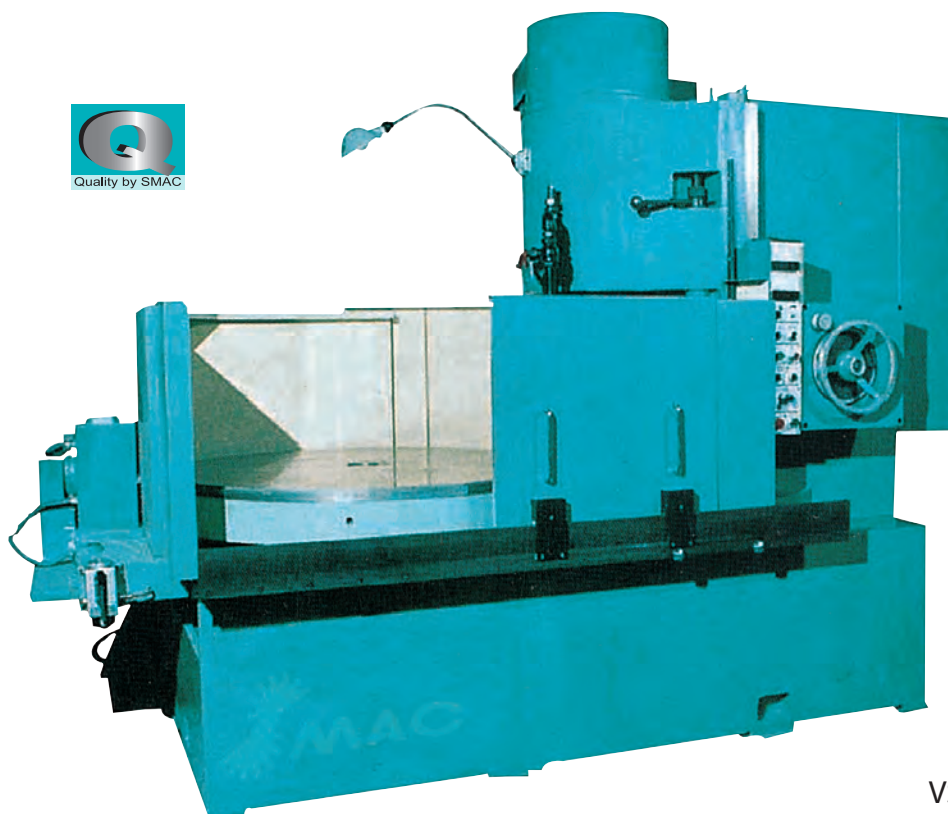
PSGK3010



PSGK2516

Model	52564	52565	52566	52567
	PSGK2010	PSGK3010	PSGK2516	PSGK3016
Table working surface (W x L)	1000 x 2000mm	1000 x 3000mm	1600 x 2500mm	1600 x 3000mm
Max. size of workpiece to be ground (W x L x H)	1000 x 2000 x 630mm	1000 x 3000 x 630mm	1600 x 2500 x 800mm	1600 x 3000 x 630mm
Table longitudinal travel (hydraulic)	2200mm	3200mm	2700mm	3200mm
Speed of table (stepless)	3-22m/min	3-22m/min	3-22m/min	3-22m/min
Grinding wheel size (O.D. x W x I.D)	Φ500 x 75 x Φ203mm	Φ500 x 75 x Φ203mm	Φ500 x 75 x Φ203mm	Φ500 x 75 x Φ203mm
Grind wheel motor power	15kw	15kw	15kw	15kw
speed	1440r/min	1440r/min	1440r/min	1440r/min
Working surface to base level parallelism	300:0.005mm	300:0.005mm	300:0.005mm	300:0.005mm
Surface roughness	Ra 0.63μm	Ra 0.63μm	Ra 0.63μm	Ra 0.63μm
Max. allowable weight of workpiece (Including electromagnetic chuck)	3240kg	4860kg	6240kg	5900kg
Electromagnetic chuck (W x L)	1000 x 1000 x 2 mm	1000 x 1000 x 3 mm	1250 x 800 x 4 mm	1500 x 800 x 4 mm
Overall dimensions (L x W x H)	6500 x 3200 x 3700mm	8000 x 3200 x 3700mm	7500 x 4000 x 4000mm	8000 x 4300 x 4200mm
Old model	GM-K2010	GM-K3010	GM-K2516	GM-K3016

Vertical Spindle Rotary Table Surface Grinder



VSG160

	17300	17301	17302	17303
Main Specifications	VSG80	VSG100	VSG125	VSG160
Bench dia	800	1000	1250	1600
Attraction scope of electromagnet bench	80-120N/cm ²			
Max grinding size (dia x H)	1000 x 400	1000 x 400	1250 x 400	1600 x 250
Emery tile size (thick x W x L)	Wp25 x 80 x 150			Wp35 x 90 x 150
Bench rotational speed	11:12	11:12	11:12	16
Bench shifting distance	570	570	540	810
Bench shifting speed	3.7	3.7	3.7	2.5
Bench rotational motor power	2.4/1.5	2.4/1.5	2.4/1.5	5.5
Bench shifting motor power	1.1	1.1	1.1	3.0
Grind heed main shaft rotational speed	740	740	740	585
Grind heed mobile shifting speed	0.15	0.15	0.15	0.09
Grind heed motor power	45	45	45	75
Grind heed lift motor power	0.55	0.55	0.55	1.5
Vertical movement of Grind Heed Per hend diae	0.4	0.4	0.4	0.32
Vertical movement of Grind Heed Per Scale diae	0.01	0.01	0.01	0.01
Vertical movement of Grind Heed Per Turn diae	1.0	1.0	1.0	0.7
Pump motor power	0.25	0.25	0.25	0.25
Machinachine tool total power	50	50	50-65	84
Machine tool total weight (APPR)	7500	7500	8500	24000
Old model	M7480	M74100	M74125	M74160

Cylindrical Grinding Machine

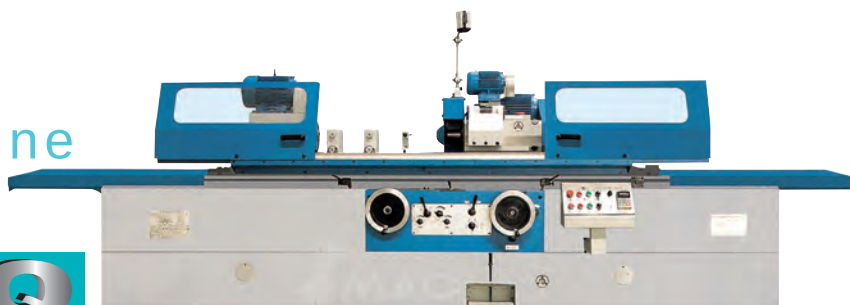
CG series cylindrical surface grinder is suitable for grinding outer surface of cylinder and taper.

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

The longitudinal movement of the worktable is driven by hydraulic or by handwheel. The worktable can to a certain degree so as to be suitable for grinding taper.

The wheelhead cross feed is driven by hydraulic, which realizes automatic periodical feed and rapid feed and rapid feed. It can also do rough and fine feed through handwheel. The worktable and wheelhead guide way of the CG50, UCG50 series adopt hydrostatic lubrication, its movement on low speed is smooth.

The spindle of CG50 and UCG50 series is supported by hydrostatic and hydrodynamic bearings of high rigidity, it makes the spindle have high rotary accuracy and perfect rigidity.



UGG32 x 1500

The wheelhead of CG50 adopts double-speed motor and its speed can be changed by changing the position of belt. The wheelhead of the universal type (UCG50) adopts inverter motor to realize stepless speed changing. The wheelhead spindle of the universal type (UCG50) adopts sliding bearing structure. The clearance of the realize stepless speed changing. The wheelhead spindle of the universal for the grinding Use center of chuck The workhead of the universal type can be rotate to any position within its counterclock direction 90° so it can be suitable for grinding inner or Outer surface of taper.

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

The workhead spindle, wheelhead spindle, internal grinding spindle, coolant pump, hydrodynamic and hydrostatic oil pump are driven by separate motors.

Each moving parts of the machine has electric, hydraulic and mechanic interlock structure the machine is well designed with pleasing appearance, all control lever are centralized in panel make operating easy.

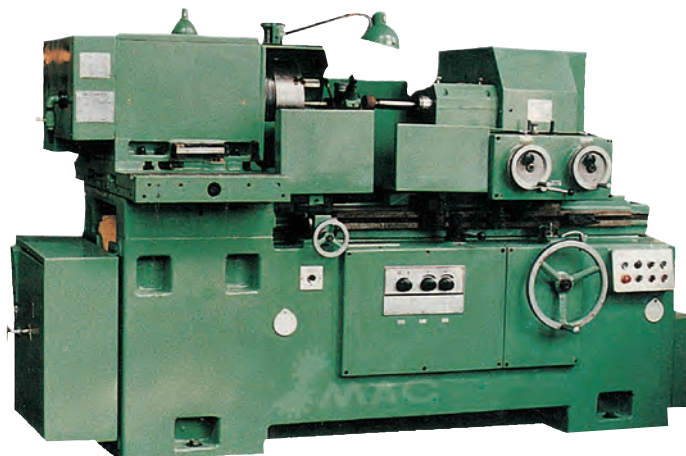
The wheel dresser can be assembled on the worktable surface or on the tailstock.

Model		Unit	13701-1	13701-2	13703-1	13705-1	13705-2	13706	13707-1
Description			CG20	UCG20	UCG32	CG50	UCG50	CG63	CG80
General capacity									
Distance between centers	mm		500, 750	500, 750	1000, 1500	1500,2000, 3000	1500,2000, 3000	3000,4000, 5000	3000,4000, 5000
Center height	mm		135	135	180	270	270	335	500
Dia. Ground (O.D)	mm		5-200	5-200	8-320	25-500	25-500	30-630	50-800
Dia. Ground (I.D)	mm		-	25-100	30-100	-	30-200		
Max. length ground (O.D)	mm		500,750	500, 750	1000, 1500	1500,2000, 3000	1500,2000, 3000	3000,4000, 5000	3000,4000, 5000
Max. length ground (I.D)	mm		-	100	125		320		
Max. weight of work piece	kg		-	100	150	1000	1000	3000	5000
Workhead									
Swiveling angle	°		-	±90°	±90°		±90°		
Center taper (MT)	MT		4	4	4	6	6	80# (Metric)	100# (metric)
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
Wheel head									
Wheel spindle speed	rpm		1335	1670	1670	870	1330/665	740	740
Wheelhead rapid travel	mm		50	50	50	100	100	100	100
Max. travel	mm		205	205	246	437.5	370	475	550
Swiveling angle	°			±30°	±30°		-30°		
手轮·转砂轮架移动量	mm		rough: 2 fine: 0.5			rough: 4 fine: 0.5		rough: 6 fine: 0.5	
手轮·格砂轮架移动量	mm		rough: 0.01 fine: 0.0025			rough: 0.02 fine: 0.0025		rough: 0.02 fine: 0.0025	
Wheel size	mm		500 x 50 x 203	400 x 50 x 203	400 x 50 x 203	750 x 75 x 305	500 x 75 x 305	900 x 75 x 305	900 x 75 x 305
砂轮线速度	mm		35	35	35	35	35/17.5	35	35
Internal grinding device									
Spindle speed	r/min		-	1000	1000	-	7000	-	-
Wheel size	mm		-	max: 35x25x10 min: 17x20x6	max: 50x25x13 min:17x20x6	-	max:175x32x13 min:17x20x6	-	-
Table									
Hand feed per. rev		mm	6	6	6	5		5	5
Max. swiveling angle	clockwise	°	3°	3°	3°	3°(1500), 2°(2000, 3000)		2°(3000), 1°(4000, 5000)	
	anticlockwise	°	9° (750), 8° (500)			7°(1000), 6°(1500)		6°(1500), 5°(2000), 3°(3000)	
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
Tailstock									
Center tape (MT)		MT	4	4	4	6	6	80# (metric)	100# (metric)
Quill travel		mm	30	30	30	70	70	100	100
Motor									
Wheelhead motor power		Kw	5.5	4	5.5	15	5/7.5	18.5	18.5
Internal grinding		Kw		1.1	1.1		1.5		
Workhead motor power		Kw	0.75	0.75	1.5	2.2/3.6	4	5	10
Machine									
Gross weight		t.	4(500) 4.2(750)	4.1(500) 4.3(750)	5.3(1000) 6.1(1500)	11.2(1500) 13(2000), 17.4(3000)		25(3000) 28(4000),30	28(3000) 31(4000),35
Packing dimension		cm	260x206x 205(500) 300x206x 205(750)	260x206x 205(500) 300x206x 205(750)	338x200x 205(1000) 438x200x 205(1500)		540x270x 210(1500) 610x270x 210(2000) 810x270x 210(3000)		
Old model			MW1320	MW1420	M1432B	M1350	M1450	M1363	M1380

Internal Grinder



IGG20

IG20A
IGD20A

The characteristics after improvement are as follows:

The feed and dressing-compensation systems are two independent systems so that it is unnecessary to readjust machines after changing a new wheel. The feed system is capable of performing automatic grinding cycle to control the final size of the workpiece.

A jumping device is equipped on these machines, therefore, it is unnecessary to manually reset the machines after measuring or dressing.

The worktable is driven by hydraulic system. The speed can be adjusted steplessly.

The wheel feed can be carried out either manually or hydraulically.

The worktable is equipped with an axial micro-movement device for grinding end faces with the internal grinding spindle.

A thyristor converter is provided for work spindle for speed variation.

There is a machined surface on the bed for installing steady-rest when grinding long workpieces.

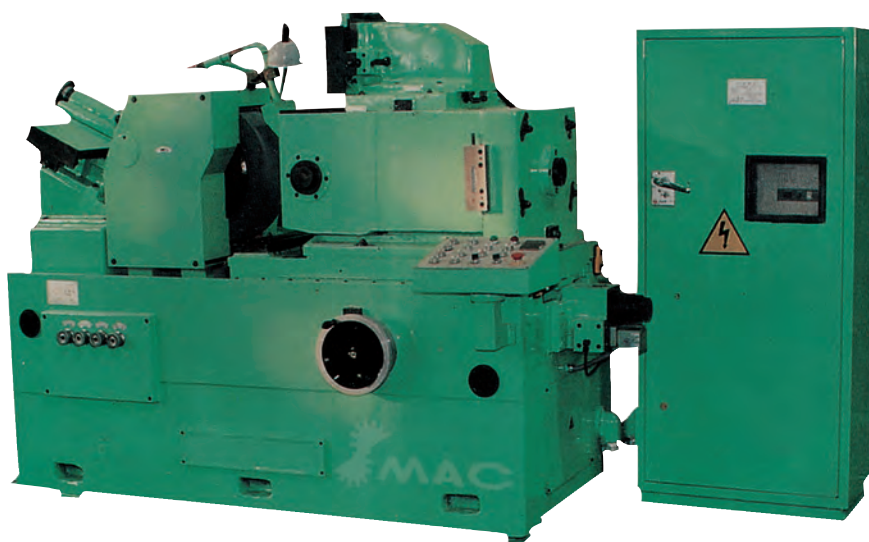
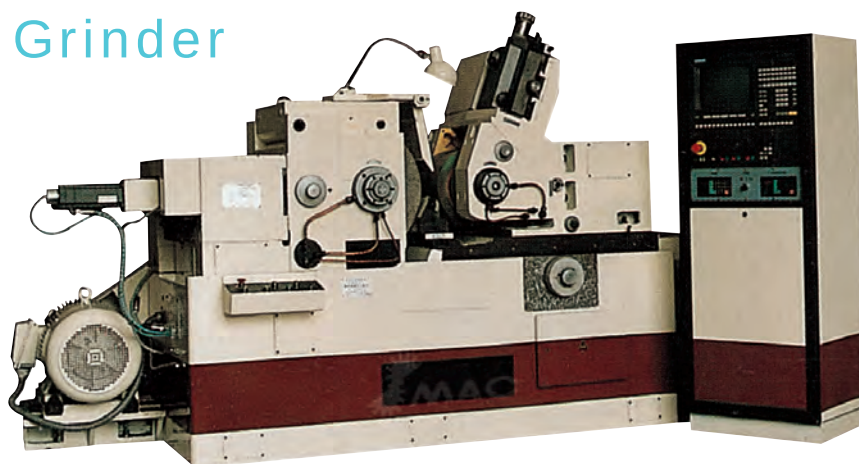
Internal Grinder is equipped with a end face grinding attachment, hence, bore and outside end face can be ground at one setup.

The machine is provided with a grinding spindle of 18000r/min. The grinding capacity can reach as small as 20mm I.D.

	Model	Dia. to be ground (mm)	Max. grinding depth(mm)	Working accuracy (μm)			Total power (kw)	Weight (kg)	Remark	Old model
				Roundness	Cylindricity	Roughness (Ra)				
17401	IG5A	3-50	80	3	3	0.63	7.39	1200		M215A
17402	IGD5A	3-50	80	3	3	0.63	8.14	1300		MD215A
17403	IGK5	3-50	80	1	2	0.40	6.5	2500	CNC	MK215
17404	IG10C	6-100	150	3	5	0.63	4.14	1600		M2110C
17405	IGK10	15-100	125	3	3	0.63	7.5	4000	CNC	MK2110
17406	IGD10A	10-100	125	1	3	0.16	7.5	3500	High precision	MGD2110A
17407	IG20A	50-200	200	3	8	0.63	8.6	3400		M2120A
17408	IGD20A	50-200	200	3	8	0.63	8.89	3500		MD2120A
17409	IGK20	50-200	200	3	5	0.63	8.5	3300	CNC	MK2120
17410	IGG20	50-200	200	1.2	3	0.16	9	3500	High precision	MG2120
17411	IG50A	150-500	450	5	8	0.63	8.92	4500		M250A
17412	IG32C	20-320	280	15	15	1.25	11.47	6500		M2532C
17413	IGK10	30-100	80	2	3	0.40	10	5000	CNC	MK2710
17414	IG009A	45-160	750	20	8/200	0.80	6	6000		WX-009A
17415	IG031A	35-135	80			0.80	6.7	2500		WX-031A
17416	IG034A	155-250	50	10	20	0.80	4.5	6500		WX-034A
17417	IG42A	6	20	0.8	2	0.16	6.3	3000		WX-42A
17418	IG065	40-120	115-230			0.4	10	6500		WX-065

Centerless Grinder

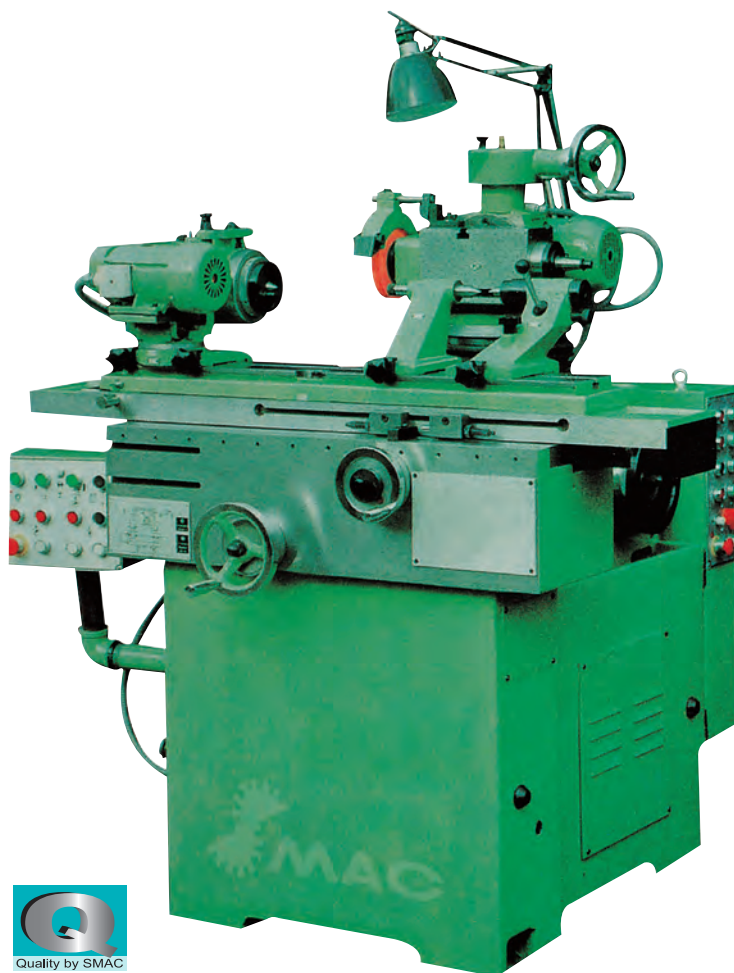
GKS10100/CNC



GS1080D

	Model	Dia. to be ground (mm)	Grinding wheel size DxHxd (mm)	Working accuracy (μm)			Total power (kw)	Weight (kg)	Remark	Old model
				Roundness	Cylindricity	Roughness (Ra)				
17501	G1020A	0.5-20	300x100x127	1.6	3	0.32	5.35	2000		M1020A
17502	GG1020	0.5-20	300x100x127	1	1.2	0.125	5.75	2000	High precision	MG1020
17503	GT1040A	2-40	350x125x127	2	3	0.25	8.83	2000		MT1040A
17504	G1050A	5-50	400x150x203	2	3	0.32	12.48	2800		M1050A
17505	GG1050A	5-50	500x150x305	1	1.8	0.16	16.13	5000	High precision	MG1050A
17506	GGT1050	2-50	450x150x250	1	1.8	0.16	12.29	5000	High precision Through feed	MGT1050
17507	G1080	5-80	500x150x305	2	3	0.32	18	5000	High peripheral speed	M1080
17508	G10100	10-100	500x200x305	2	4	0.32	20.2	4500		M10100
17509	GS10100	10-100	600x200x305	2	3	0.32	36.6	7000	High peripheral speed	MS10100
17510	GKS10100	10-100	600x200x305	2	3	0.32	36.6	7000	High precision peripheral speed CNC	MKS10100
17511	GG10100	10-100	600x200x305	1	2	0.125	23.21	7000	High precision	MG10100
17512	GW10200	10-200	600x300x305	2	4	0.32	42.62	10000		MW10200
17513	GGW10200	10-200	600x300x305	1	2.5	0.16	24.12	10000	High precision	MGW10200
17514	G11100A	10-100	500x400x305	2	4	0.32	26.25	8100	Wide grinding wheel	M11100A
17515	G11150	10-150	600x400x305	2	5	0.32	37	10000	Wide grinding wheel	M11150
17516	G11200/2	50-200	500x600x305	3	5	0.32	40.67	10000	Wide grinding wheel	M11200/2
17517	G10300	50-300	600x500x305	3	5	0.32	44	12000		M10300
17518	GT10400	50-400	750x500x350	5	8	0.32	70	18000	Through feed	MT10400
17519	3G6020	4-20		1		0.125	28	7000	For tapered roller	3M6020
17520	3G6040	18-40		1.5		0.125	30	10000	For tapered roller	3M6040

Universal Cutter & Tool Grinder



The series machine are specially suitable for sharpening tools in HSS, tungsten carbide and other materials, also for cylindrical, surface, slot and profile grinding work. By using additional attachment, you greatly extend the range of application of there machines and can solve individual machineing problems, such as grinding of various hobs, for tools, spherical cutters, twist drills and steep taper reamers, etc.

The series machine wheelhead with two-dimensional setting(except TGA25B), workhead stock swivels with double dir., And supplied with ISO-50 taper hole. Worktable is supported iin preloaded ball guide and can be driven by hand or by infinitely changing rate hydraulic

Optional Accessories

Hob cutter grinding attachment 1 set
 Blow wheel and cutter gauge dresser 1 set
 Drill grinding attachment 1 set
 Circular permanent-magnetic chuck 1 set
 Dust extractor 1 set
 Extended grinding wheel spindle 1 set
 Cylinder center spindle 1 piece
 Worktable longitudinal digital display unit 1 set
 Grinding attachment for special cutters 1 set
 Universal grinding head 1 set
 Dividing plates 5 piece
 Universal wheel dresser 1 set
 Three-jaw chuck 1 set
 Universal rectangular permanent-magnetic chuck 1 set
 Web grinding equipment 1 set
 Spring collet chuck 14 piece
 Worktable micro-feeding mechanism 1 set
 Double end side wheel dresser 1 set
 Precision wheel dresser 1 set

Specification	Model	Unit	14001	14002	14003	14004	14005
			TGA25	TGY25	TGA25B	TGYA25B	TG25A
Distance between left tailstock and right tailstock centers	mm		650				650
Max. Workpiece diameter	mm		250				250
Height of centers	mm		130				125
Max. length for cylindrical grinding	mm		270				270
Work table travel by hand	mm		400				500
Swivel range of table to either side			±45°				±60°
Work table travel by hydraulically				400mm		400mm	
Vertical/Cross slide travel	mm		230/250				230/250
Max./Min distance between table Surface and grinding spindle	mm		298/48				50/280
Horizontal swivel range of wheelhead			360°				360°
Max/Min grinding spindle inclinable			±15°(exclud MA6025B)				±15°
Grinding spindle speed	rpm		2700,4000,5500				3000
Total power	kw		3.15KW				1.43
Overall dimensions	mm		1340x1320x1320				1480x1102x1215
Gross Weight/Net Weight	kg		1100	1150	1150	1250	1000
Linearity	mm		0.005		0.003		0.005
Roughness	um		0.63		0.32		0.63
Old model			MA6025	MYA6025	MGA6025B	MGYA6025B	MQ6025A