

SG2050AHD - Full Auto

* Auto feed & manual on transverse, auto hydraulic transmission & manual feed on longitudinal, rapid feed, step-feed and auto down feed control on vertical.

* Vertical movement adopts PLC to realise the auto grinding.

**“+” saddle is adopted in the design, all these three guide way is lined with TF wearable material and lubricated by intermittent forced oil pump, the column have double walls, the table right and left moving is driven by variable displacement vane pump and adopted closed type hydraulic system. all above make the machine with high rigidity and precision, small thermal distortion, moving smoothly, low nose and temperature increase, is easy to maintain. the table is driven by manual or by hydraulic in right or left direction, the speed is variable changed by adjusting lever located on the saddle, driven by manual or by motor through driven the ball leading screw. The grinding head could be driven by servo motor, also it be driven by manual.

Application:

The machine is used for mid-type & mini –type material processing workshop and the other maintain & tools workshop in.

The machine is mainly used to grinding the surface with the wheel circle face, the surface been ground have high precision and low roughness. also it can grind the vertical surface with the end face of the wheel, the workpieces can be placed on the magnetic chuck or fixed directly on the table or with other fixtures suit to various work pieces.

The machine can be used for grinding steel, cast iron and non ferrous metals.

Standard appendix:

(1) Electro magnetic chuck, (2) coolant tank, (3) demagnetic equipment, (4) wheel cover guard, (5) leveling wedge and foundation bolt (6) balance arbor (7) wheel dresser base (8) wheel flange and wheel (9) tool box and tools **(10) PLC auto grinding controller**

Optional accessories:

(1) Balancing stand (2) coolant tank with dust collector (3) coolant tank with magnetic separator (4) coolant tank with dust collector and magnetic separator (5) coolant tank with paper filter (6) coolant tank with paper filter and magnetic separator (7) manual parallel wheel dresser (8) Universal wheel dresser (9) Radius & angle dresser (10) Sine dresser (11) Digital readout (12) Luxurious (tiltable) permanent magnetic chuck

Item/model	unit	SG2050AHD
Table size (w*l)	mm	200*460

Max.longitudinal &cross travel	mm	510*238	
Max.distance from spindle center to table	mm	450	
Electro magnetic chuck size	mm	200*460	
Speed of table longitudinal movement	m/min	7-23	
Table 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/min	0.005/0.01/0.02/0.03/0.04/0.05
	Rapid speed	m/min	460
	Feed of handwheel	mm/div	0.005
Grinding wheel	speed	rpm	2850(50HZ)、3450 (60HZ)
	Size (OD*W*ID)	mm	200*20*31.75
Spindle motor	kw	1.5	
Hydraulic motor	kw	0.75	
Colling pump motor	kw	0.04	
Elevating motor	kw	0.5	
Cross feed motor	kw	0.04	
Max.loading capacity(include chuck)	kg	120	
Total rated power	kw	3	
Height of machine	mm	1675	
Floor space (L*W)	mm	2050*1400	
Gross weight	kg	1600	
Package dimensions (L*W*H)	mm	1900*1720*2175	

Full auto (PLC) hydraulic surface grinder



SGA4080AHD

Features:

Auto feed & manual on transverse, auto hydraulic transmission & manual feed on longitudinal, step-feed and auto down feed control on vertical.

Vertical movement adopts PLC to realise the auto grinding.

Standard appendix:

- (1) Electro magnetic chuck
- (2) coolant tank
- (3) demagnetic equipment
- (4) wheel extractor
- (5) leveling wedge & foundation bolt
- (6) balance arbor
- (7) wheel dresser base
- (8) wheel flange and wheel
- (9) tool box and tools
- (10) PLC auto grinding controller

Optional accessories:

- (1) balancing stand
- (2) coolant tank with dust collector
- (3) manual parallel wheel dresser
- (4) universal dresser
- (5) radius & angle dresser
- (6) sine dresser
- (7) 2-axis DRO

Item/model	unit	SG2050AHD	SGA2550AHD	SGA3063AHD	SGA30100AHD	SGA4080AHD	SGA40100AHD
Table size (w*l)	mm	200*460	250*500	305*635	305*1020	406*813	406*1020
Max.longitudinal & cross travel	mm	510*238	560*275	765*340	1130*340	910*450	1130*450
Max.distance from spindle center to table	mm	450	450	580	580	580	580
Electro magnetic chuck size	mm	200*460	250*500	300*600	300*1000	400*800	400*1000
Speed of table longitudinal movement	m/min	7 - 25					
Table transverse movement	Auto feed	m/min 0.1 - 8					
	Rapid feed	m/min 990					
	Feed of hand wheel	m/min 0.02					
Wheel head vertical movement	Auto feed	mm/min 0.005/0.01/0.02/0.03/0.04/0.05					
	Rapid feed	m/min 240					
	Feed of handwheel	mm/div 0.005					
Grinding wheel	Speed	rpm 2850(50Hz)、3450 (60Hz)		rpm 1450(50HZ)、1750 (60HZ)			
	Size (OD*W*ID)	mm 200*20*31.75		mm 350*40*127			
Spindle motor	kw	1.5	2.2	5.5			
Hydraulic motor	kw	0.75		2.2			
Cooling pump motor	kw	0.04		0.125			
Elevating motor	kw	0.5					
Cross feed motor	kw	0.04					
Max.loading capacity(include chuck)	kg	120	180	270	400	500	600
Total rated power	kw	3	3.7	9			
Height of machine	mm	1675		1890			
Floorspace (L*W)	mm	2050*1600	2300*1600	2900*2200	4400*2200	3600*2400	4400*2400
Gross weight	kg	1600	1800	2900	3500	3500	4000
Packagedimensions (L*W*H)	mm	1906*1716*2195	2316*2016*2208	2350*2220*2150	2950*2220*2210	2850*2270*2180	2950*2270*2210

Technical Parameters

Item/model	unit	SG2050AHD	SGA2550AHD	SGA3063AHD	SGA30100AHD	SGA4080AHD	SGA40100AHD
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Max.longitudinal &cross travel	mm	510*238	560*275	765*340	1130*340	910*450	1130*450
Max.distance from spindle center to table	mm	450	450	580	580	580	580
Electro magnetic chuck size	mm	200*460	250*500	300*600	300*1000	400*800	400*1000
Speed of table longitudinal movement	m/min	7-25					
Table 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/min	0.005/0.01/0.02/0.03/0.04/0.05				
	Rapid speed	m/min	240				
	Feed of handwheel	mm/div	0.005				
Grinding wheel	speed	rpm	2850(50HZ)、3450 (60HZ)		1450(50HZ)、1750 (60HZ)		
	Size (OD*W*I D)	mm	200*20*31.75		350*40*127		
Spindle motor	kw	1.5	2.2	5.5			
Hydraulic motor	kw	0.75			2.2		
Colling pump motor	kw	0.04			0.125		
Elevating motor	kw	0.5					
Cross feed motor	kw	0.04					
Max.loading capacity(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*W)	mm	2050*1400	2300*1600	2800*2200	4400*2200	3600*2400	4400*2400
Gross weight	kg	1600	1800	2800	3500	3800	4300
Package dimensions (L*W*H)	mm	1906*1716*2195	2316*2016*2208	2350*2220*2150	2950*2220*2210	2850*2270*2180	2950*2270*2210