



PRECISION SURFACE GRINDER (Handfeed/Hydraulic/Auto)

614/618/818/820 SERIES



▲ PSG-820 3A



Feature

- Easy operation needs no calculation
- Rough and fine feed two phase processing ensures high precision.
- Zero set and zero return are available for easy handing, just press the return key to original start point.
- Even if the vertical head is moved or modified from the current position.
- Original feed setting won't be affected
- Automatic transverse and deep plunge cycles available.
- Two plunge mode feed selections: Left side or dual side
- Minimum increment 0.001 mm

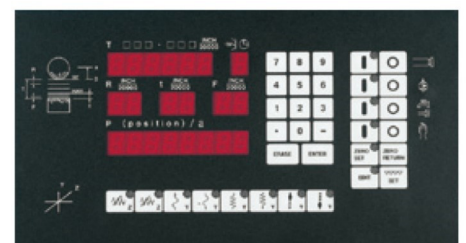
Automatic Models to Save Your Cost & Manpower

Auto Downfeed Surface Grinder Series

AD PLC-controller Type Series



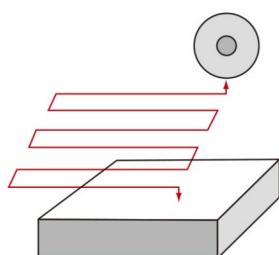
Operation Panel



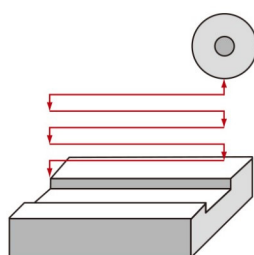


PSG-618AD/820AD

Surface Grinding

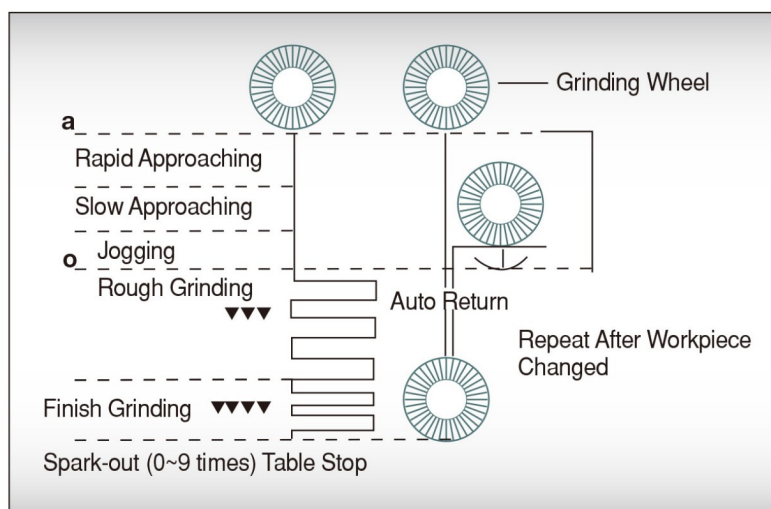


Plunge Grinding



The Motor Control of Vertical

Model	Stepping Motor
618	✓
820	✓



The New Hydraulic Oil Tank



PSG-618 2A



Table use proximity switch for stepless, side to side speed changes and increase convenience.

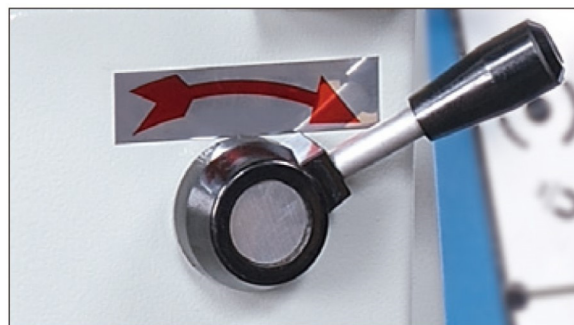
Semi-auto Forming Surface Grinder Series



PSG-820 3A

PSG-618 1A/2A/3A
PSG-820 1A/2A/3A

Table feeding adjustment lever



1A	Hydraulic Table
2A	1A+Motorized Crossfeed
3A	2A+Power Rapid Vertical Feed



PSG-614/618T

Feature

- All casting pieces are made in Taiwan with the annealing treatment to enhance high rigidity and stability in grinding.
- Double V sideways are precision hand scraped and coated with Turcite B for smooth movement and stability.
- Standard auto-lube system provides lubrication on all ways.
- The spindle is coupled directly with motor which ensures high spindle run out providing a precision grinding.

High Precision Manual Surface Grinder Series

Roller Guide Manual Precision Surface Grinder PSG-618B/818B

Designed by roller guide mounted in tracks under the table, provide smooth & light grinding and reduced the fatigue to the operator.

Rapid Feed or MPG Micro Feed (Vertical)

The rapid feed device can promote the efficiency work. The MPG micro feed provide the accuracy of feed adjustment and suit for extra fine surface grinding.



Accessories



Permanent Chuck



Permanent
Magnetic Chuck



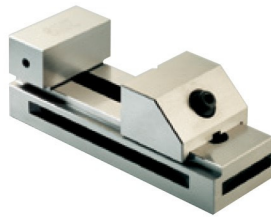
Tool Box & Tool Kit



Auto Demagnetizer
(for Electro-Magnetic Chuck)



Demagnetizer
(for Permanent Chuck)



Tool Maker Vise



Wheel Flange



Parallel Dresser



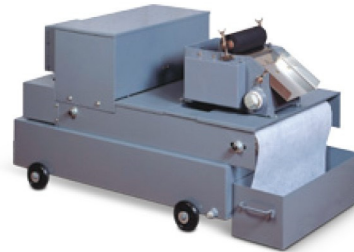
Dust Suction &
Coolant System



Dust Suction
System



Coolant System



Coolant System with Auto Paper
Filter & Magnetic Separator



Inverter

Standard

- Working Lamp
- Wheel Balancing Arbor
- Grinding Wheel with Flange
- Flange Extractor
- Wheel Dresser with Diamond
- Leveling Screw & Plate
- Toolbox & Tools
- Operation Manual

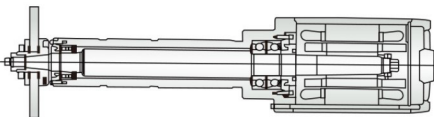
Optional

- Permanent/ Electro Magnetic Chuck
- Inclined Permanent Magnetic Chuck
- Parallel Dressing Attachments
- Angle Dressing Device
- Radius Dressing Device
- Demagnetizer
- Coolant System W/ Splash Guard
- Coolant System & Dust Unit W/ Splash Guard
- Dust Suction System
- Wheel Balance Stand
- Grinding Wheel Flange
- Vertical MPG Microfeed Device
- Punch Former
- Precision Vise
- LED Working Lamp
- Magnetic Separator Filter
- Paper Filter W/ Coolant System
- Coolant System with Auto Paper Filter and Magnetic Separator
- DRO & Linear scale
- Wheel Inverter

614/ 618/ 818/ 820 Feature

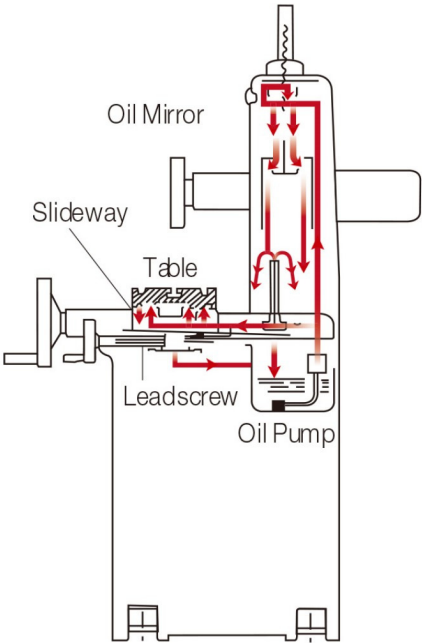
Precision Grinding Spindle

is coupled directly with V-3 motor which ensures high spindle run out accuracy of 0.001 mm. The precision cartridge spindle, greased & maintenance free incorporates 4 preloaded class 7(P4) super precision angular contact ball bearings for heavy grinding.

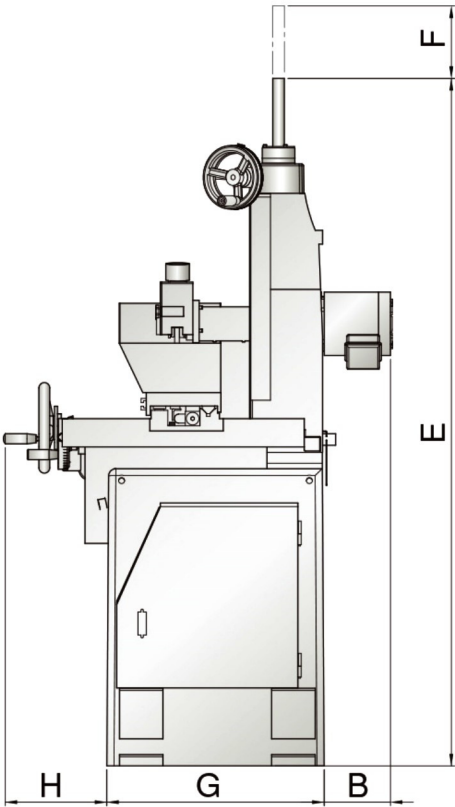
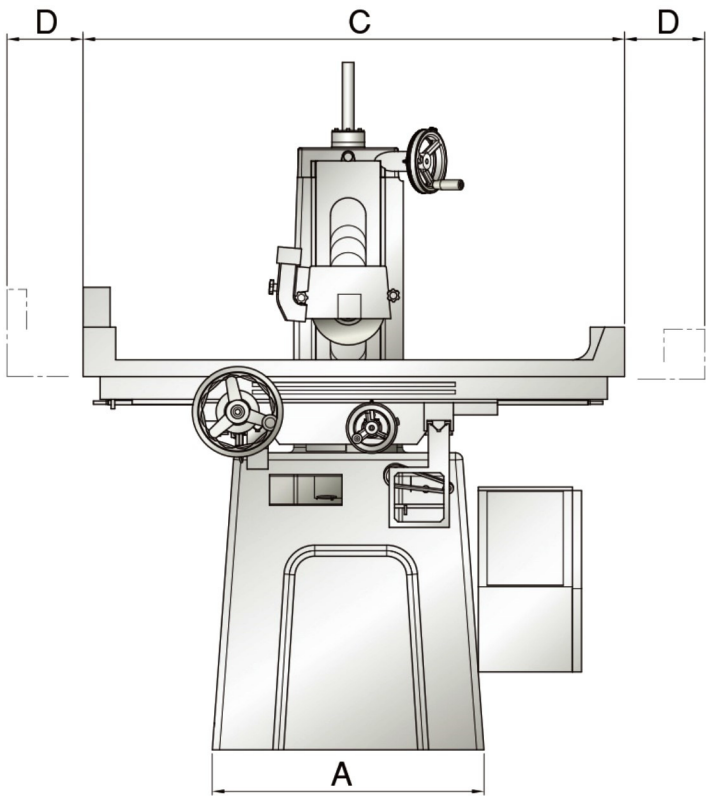


Standard Auto-lube System

Standard auto-lube system provides ample lubrication on all slide ways, lead screws and nuts, Lubrivating oil is filtered and recycled, smooth movement and minimal wear and tear.



Working Area



Model	Unit	614	618T/B	618/820
A	mm	640	760	760
B		180	180	500
C		1,000	1,210	1,510
D		238	238	265
E		1,800	1,800	1,900
F		200	200	200
G		600	600	600
H		375	400	475

SPECIFICATION :

Description	Unit	Model				
		PSG-614	PSG-618T PSG-618B	PSG-818B	PSG-1A618 PSG-2A618 PSG-3A618 PSG-618AD	PSG-1A820 PSG-2A820 PSG-3A820 PSG-820AD
General Capacity						
Table Working Surface	mm	150x352	150x450	200x450	150x457	200x500
Max. Table Travel		170x380	176x480	220x485	180x485	230x530
Max.Grinding Surface		150x350	150x450	200x450	150x450	200x500
Max.Distance Center of Spindle to Table		420	420 / 450 (Opt.)			
Longitudinal Movement						
Table Guideway		V & Flat Way				
Table Speed	M/min	—	—	—	3 ~ 25	
Cross Movement						
Rapid Power (Approx)	mm/min	—	—	—	1,100 (60HZ) / 900 (50HZ)	
Hand Wheel (1rev)	mm	5	5	5	5	5
Hand Wheel (1gra)		0.02				
Microfeed (1gra) / Opt.		0.002	0.002	0.002	0.002	0.002
Increment (Approx)		—	—	—	0.15 ~ 7.5	0.15 ~ 7.5
Vertical Movement						
Hand Wheel (1rev)	mm	1	1	1	1	1
Hand Wheel (1gra)		0.005				
Rapid Power Elevation (Approx) (3A/Ad)	mm/min	—	—	—	220 (60HZ)	220 (60HZ)
MPG Micro Feed / Opt.	mm	(x1) 0.001 (x10) 0.01 (x100) 0.1				
Auto. Downfeed (Only for AD Series)						
Feed Rate (Coarse / Fine)	mm	—	—	—	0.001 ~ 0.099	
Total Stock Removal		—	—	—	0.001 ~ 999.999	
Fine Feed Stock Removal		—	—	—	0.001	
Spark Out	passes	—	—	—	0 ~ 9	
Grinding Wheel						
Wheel Dimensions (DiaxWidthxBore)	mm	180x13x31.75			180x13x31.75	
Wheel Speed	rpm	3,000 / 3,600				
Motor						
Spindle Motor	HP	1.5	1.5	2	1.5	2
Cross Feed	W	—	—	—	25	40
Hydraulic	hpxp	—	—	—	1x6	1x6
Vertical Feed (Only for 3A/ AD Series)		—	—	—	25W (3A) / 21.6 kg-cm (AD)	
Coolant Pump	HP	1/8			1/8	
Weight	kgs	670	780 / 870	800 / 890	850 / 950	920 / 1,020
Packing Size (LxWxH)	cm	130x105x210	145x110x210	167x115x210	170x115x210 190x150x210 (AD)	172x125x210 190x150x210 (AD)



**TOP PHOENIX
INTERNATIONAL CORP.**
Machinery Exporter & Importer

No. 48-3, Wayao Rd., Dali Dist.,
Taichung City 412, Taiwan
E-Mail: sales@topphoenix.com.tw; topphoenix24@gmail.com;
top.phoenix@msa.hinet.net
http://www.topphoenix.com.tw
Tel: 886-4-2406-5028 (Rep.) Fax: 886-4-2406-5019

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