

FREEPORT

MANUAL PRECISION SURFACE GRINDING MACHINE

SGS-618M

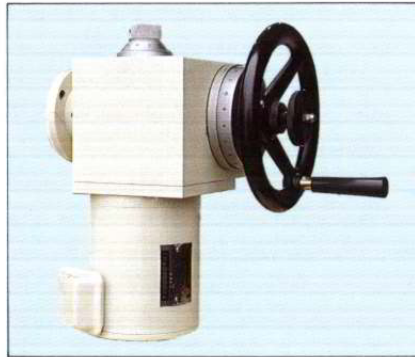
SGS-816M

SGS-1020M



GRADE "A" CNS

FEATURES AND CONSTRUCTION

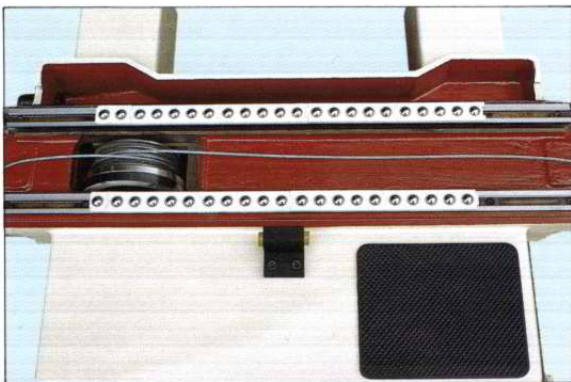


◀ Micro adjustment & rapid downfeed construction (Optional accessory)

- Use 1/5 HP motor to drive wheel head for up and down movement.
- Minimum feeding capacity of micro adjustment switch is 0.002mm, the feeding capacity can be increased per user's request.
- There is a clutch assembly to reduce normal wear of the parts.

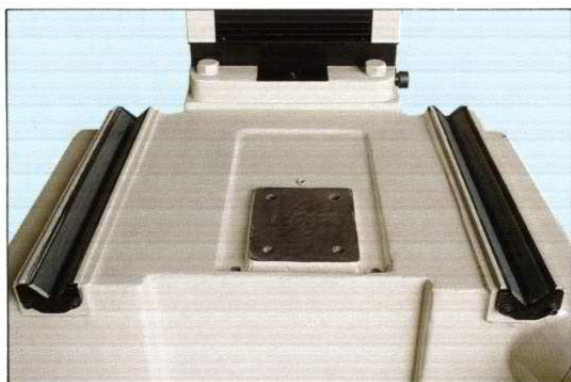
▶ Operational panel

- There are pictures to indicate the functions of control switches and buttons, the operator can easily understand their functions.
- A big emergency stop button and low tension wire ensure the safety of the operator.



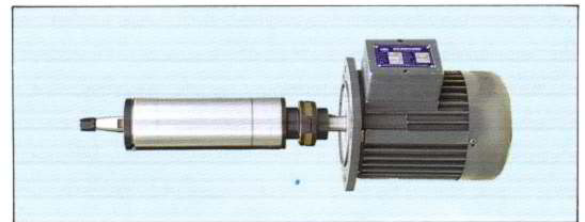
◀ Table slideway

- Table slideway is formed for a special hardened and precise ground alloy steel.
- Precise roller balls enable movement light and easy.
- Table can move steadily and smoothly.



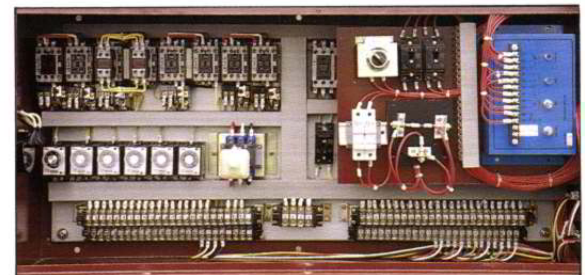
◀ V-V cross slideway

- Two V cross slideways are coated with TURCITE-B, then, be scraped manually.
- Well-designed lubrication system assures smooth cross movement even if it's used for heavy and long time machining.



▲ Spindle and V³ graded spindle motor

- High precision spindle has two pairs of super precision angular contact ball bearings, which are sealed completely, and the spindle requires no further maintenance.
- 2 HP V³graded spindle motor drives spindle to meet high precision grinding.



▲ Electric control system

- Perfect wires design shows by different colors and wire's numbers, give a convenient inspection and maintenance.
- Wires are low tension and have dual safety protection, thus, ensure operator's safety.

MODEL		SGS-618M	SGS-816M	SGS-1020M
Working surface of table (W. x L.)		150 x 460 (6" x 18")	160 x 410 (6¼" x 16")	230 x 500 (9" x 19¾")
Max. grinding surface (W. x L.)		150 x 460 (6" x 18")	200 x 410 (8" x 16")	250 x 500 (10" x 20")
Max. horizontal travel of table		485 (19")	430 (17")	525 (21")
Max. cross travel of table		180 (7")	200 (8")	270 (10¾")
Distance between table surface and spindle center		460 (18")		500 (19¾")
Variable table speed		Manual		
Downfeed handwheel	Per graduation	0.01 (0.001")		
	Per revolution	2 (0.1")		
Crossfeed handwheel	Per graduation	0.02 (0.0005")		
	Per revolution	4 (0.2")		
Auto downfeed micro adjustment	Per graduation	0.002 (0.0001")		
	Per revolution	0.2 (0.01")		
Spindle motor		2HP x 2P		
Rapid downfeed motor		½ HP x 6P		
Grinding wheel (O.D. x T. x I.D.)		203 x 31.75 x 12.7 (8" x 1¼" x ½")		
Rotation speed of spindle		3500RPM/60HZ 2900PPM/50HZ		
Coolant pump		⅛ HP		
Dust-suction motor		½ HP x 2P		
Machine weight	Net	650kgs (1430lbs)	650kgs (1430lbs)	1300kgs (2860lbs)
	Gross	730kgs (1600lbs)	730kgs (1600lbs)	1550kgs (3410lbs)
Packing dimension		1520 x 1280 x 1880	1420 x 1280 x 1880	1700 x 2070 x 2108
		60" x 50½" x 74"	56" x 50½" x 74"	67" x 81½" x 83"

* We follow a policy of continuous improvement of all our products, reserving the right to change specifications, mechanics, or designs at any time without notice or obligation.



SUNNY MACHINERY CO., LTD.

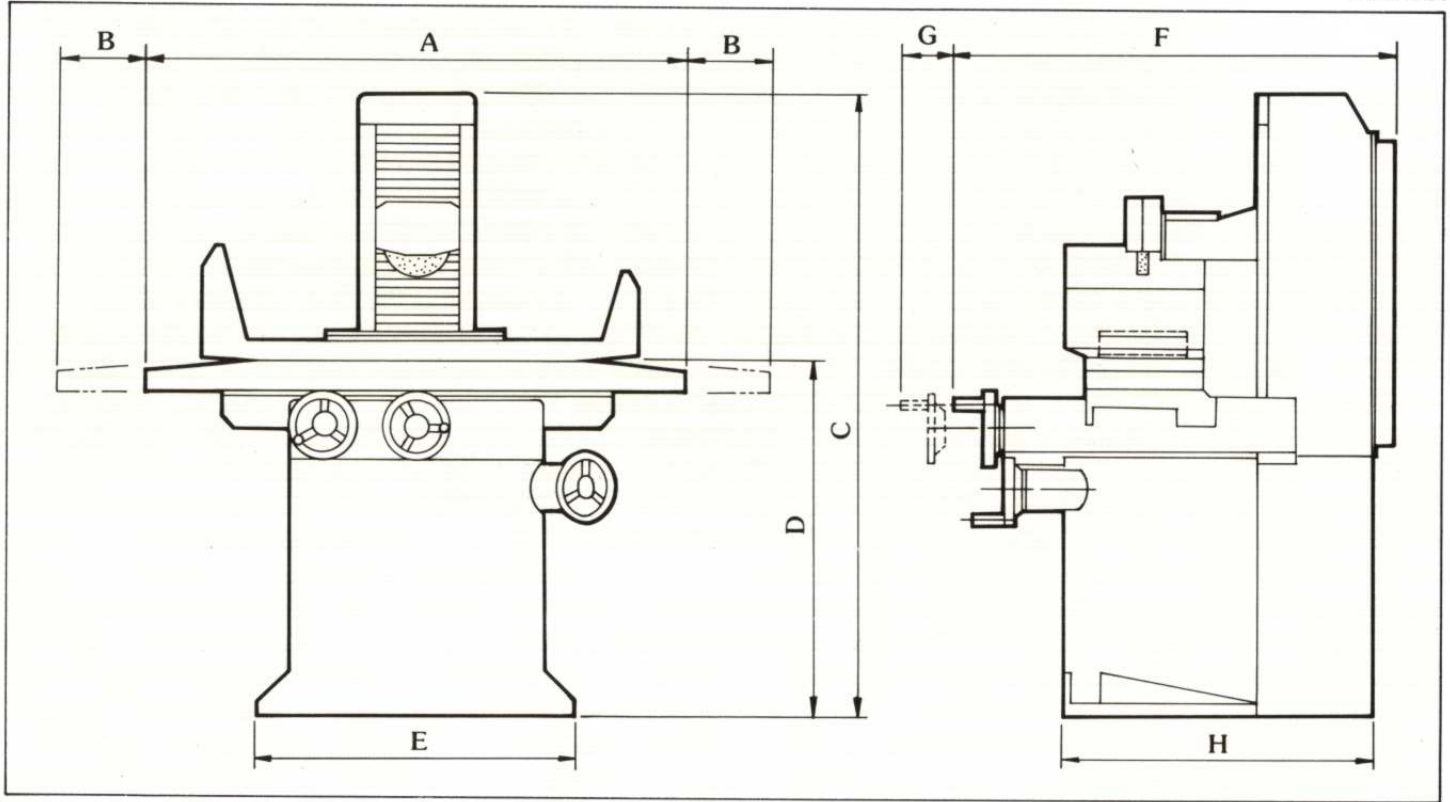
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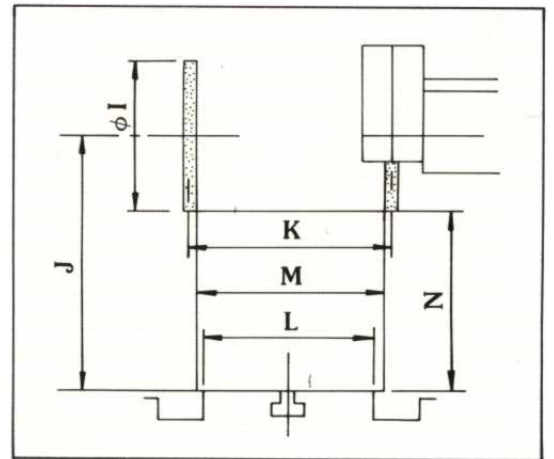
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PROFILE DIMENSION

UNIT: MM



	SGS-618M	SGS-816M	SGS-1020M
A	1260 (49½")	1160 (45½")	1520 (60")
B	240 (9½")	215 (8½")	260 (10¼")
C	1660 (65½")	1660 (65½")	1720 (67¾")
D	940 (37")	940 (37")	990 (39")
E	615 (24¼")	615 (24¼")	890 (35")
F	850 (33½")	900 (35½")	1020 (40¼")
G	180 (7")	200 (8")	270 (10¾")
H	700 (27½")	750 (29½")	870 (34¼")
I	200 (8")	200 (8")	200 (8")
J	460 (18")	460 (18")	500 (19¾")
K	165 (6½")	215 (8½")	265 (10½")
L	150 (6")	160 (6¼")	230 (9")
M	150 (6")	200 (8")	250 (10")
N	360 (14")	360 (14")	400 (15¾")



STANDARD ACCESSORIES

1	Operation manual	1 pc.
2	Tool box with tools	1 set
3	Wheel flange	1 pc.
4	Wheel balancing base	1 pc.
5	Wheel balancing arbor	1 pc.
6	Grinding wheel	1 pc.
7	Flange extractor	1 pc.
8	Diamond dresser	1 pc.
9	Diamond dresser base	1 pc.
10	Working light	1 pc.

OPTIONAL ACCESSORIES

1	Coolant equipment	1 set	9	Electromagnetic chuck	1 set
2	Dust suction equipment	1 set	10	Inclinable electromagnetic chuck	1 set
3	Cooling and dust suction equipment	1 set	11	Angle forming attachment	1 set
4	Coolant equipment with paper filter	1 set	12	Radius forming attachment	1 set
5	Coolant equipment with paper filter and magnetic separator	1 set	13	Sine bar	1 set
6	Manual type overhead parallel dressing attachment	1 set	14	Precision vise	1 set
7	Hydraulic type overhead parallel dressing attachment	1 set	15	Punch former	1 set
8	Permanent magnetic chuck	1 set	16	Electrodemagnetized equipment	1 set