

# FREJOTH

**HIGH PRECISION  
HANDFEED SURFACE GRINDER  
HYDRAULIC SURFACE GRINDER**



**ASG-618/1A/2A  
818/1A/2A**



## FEATURES

### MACHINE CONSTRUCTION

The main parts of the machine such as base, column & saddle are made of "MEEHANITE" castings which are stress released by annealing to ensure stable rigidity and high accuracy and to extend machine life.

### SLIDEWAYS (BALL WAYS OR TURCITE WAYS)

Both longitudinal & cross slideways are precisely handcrafted and laminated with TURCITE providing a smooth movement and ever low wearing, mostly suitable for FORMING grinding.

Ball ways are available for hand feed grinder ASG-618B/618B only. Finely selected steel balls are utilized for a light movement so as to maximize working efficiency.

### SPINDLE

The precision cartridge spindle, greased & free of maintenance, is incorporated with 4 pieces of preloaded class 7 (P4) super precision angular contact ball bearings in a room with constant temperature offering a stable & noise-free rotation so as to extend its longevity. The spindle is directly mounted onto the motor for direct drive. It not only provides a high torque but also vibration free under heavy grinding.

### TABEL REVERSE DEVICE (1A/2A/3A/AD)

With application of proximity switches, the table stroke can be set and adjusted easily according to the workpiece size to enhance grinding efficiency. Noise-free traverse.

### AUTO LUBRICATION SYSTEM

The automatic lubrication system is furnished as standard to provide ample lubrication on all slideways and leadscrews enabling a smooth movement so as to minimize wearing possibility.

### RAPID VERTICAL FEED (3A/AD--OPT FOR 1A/2A)

Rapid vertical feed is driven by an AC motor to maximize working efficiency.

### CENTRALISED CONTROL PANEL

All buttons & switches are situated on the control panel for an easy and convenient operation.

### AUTOMATIC DOWNFEED: (618AD/618AD)

The automatic downfeed is executed by PLC control featuring a variety of performances such as, 2-speeds downfeed (rapid & slow speeds), micro down-feed, zero return setting after cycle grinding, surface or plunge grinding, left side/right side/both sides downfeed, etc to accommodate different grinding demands.



614  
ASG- 618  
618



ASG- 618AD  
618AD

Pictures shown with options

# ON SURFACE GRINDER

## OPTIONAL ACCESSORIES AT EXTRA COSTS



Electro-magnetic chuck



Permanent mag. chuck



Inclinable permanent magnetic chuck



Dust collector



Coolant system



Coolant & dust unit



Diamond dresser



Splash guard



Balancing stand



Manual overhead dressing attachment



Manual demagnetizer



Chuck control with auto demagnetizer



Spare wheel flange



Halogen lamp



Radius forming attachment



Precision vise



Punch former



Digital read out



Optidress-E



Diaform wheel forming attachment

## STANDARD ACCESSORIES



- Grinding wheel with flange
- Wheel extractor
- Wheel wrench
- Balancing arbor
- Auto lube system
- Tool box with adjusting tools
- Levelling screws with blocks
- Operation manual with parts list



# FREJO TH

★ HS-2µm precision handscrape model on request

S: TURCITE-B SLIDEWAYS

1A: LONG. HYDRAULIC TRAVERSE

B: BALL SLIDEWAYS

2A: 1A+MOTORIZED CROSS FEED

AD: 3A+AUTO DOWNFEED

3A: 2A+RAPID DOWNFEED

## SPECIFICATION:

DESCRIPTION		MODEL	ASG- 618S 618B	ASG-818B	ASG- 618 1A 618 2A 618 3A 618AD	ASG- 618 1A 618 2A 618 3A 618AD
<b>General Capacity</b>	Table size		150x460mm (6x18")	200x457mm (8x18")	150x460mm (6x18")	200x457mm (8x18")
	Max. grinding length		475mm (18-3/4")	475mm (18-3/4")	475mm (18-3/4")	475mm (18-3/4")
	Max. grinding width		160mm (6-1/3")	200mm (8.6")	160mm (6-1/3")	200mm (8.6")
	Distance from table surface to spindle center		400mm (15-3/4")	400mm (15-3/4")	400mm (15-3/4")	400mm (15-3/4")
	Standard mag chuck size		150x460mm (6x18")	200x457mm (8x18")	150x460mm (6x18")	200x457mm (8x18")
<b>Longitudinal Movement</b>	Manual travel		485mm (19")	485mm (19")	485mm (19")	485mm (19")
	Hydraulic traverse		-	-	480mm (18-15/16")	480mm (18-15/16")
	Table speed (inf. variable)		-	-	1-25mm (1/8-1")	1-25mm (1/8-1")
<b>Cross Movement</b>	Manual travel		180mm (7")	240mm (9-1/2")	180mm (7")	240mm (9-1/2")
	Rapid traverse (2A/3A/AD)		-	-	1200mm/min	1200mm/min
	Auto increment feeds (2A/3A/AD)		-	-	1-10mm (1/16"-1/3")	1-10mm (1/16"-1/3")
	Handwheel per graduation		0.02mm (0.001")	0.02mm (0.001")	0.02mm (0.001")	0.02mm (0.001")
	Handwheel per revolution		5mm (0.2")	5mm (0.2")	5mm (0.2")	5mm (0.2")
<b>Vertical Downfeed</b>	Rapid traverse (3A)		-	-	220mm/min (9"/min)	220mm/min (9"/min)
	Auto downfeed (AD)		-	-	0.001-0.099mm (0.00003-0.004")	0.001-0.099mm (0.00003-0.004")
	Handwheel per graduation		0.005mm (0.0002")	0.005mm (0.0002")	0.005mm (0.0002")	0.005mm (0.0002")
	Handwheel per revolution		1mm (0.05")	1mm (0.05")	1mm (0.05")	1mm (0.05")
<b>Grinding Wheel</b>	Wheel size (dia X width X bore)		180x16x32mm (7x2/3x1-1/4")	180x16x32mm (7x2/3x1-1/4")	180x16x32mm (7x2/3x1-1/4")	180x16x32mm (7x2/3x1-1/4")
	Spindle speeds (60C/50C)		3600/3000 rpm	3600/3000 rpm	3600/3000 rpm	3600/3000 rpm
<b>Motors</b>	Spindle motor		1.5HP	2 HP	1.5 HP	2 HP
	Cross feed motor (2A/3A/AD)		-	-	1/8 HP	1/8 HP
	Elevating motor (3A/AD)		-	-	1/4 HP	1/4 HP
	Hydraulic motor		-	-	1HP	1HP
<b>Weight</b>	Net (approx)		720kgs (1584 lbs)	900 kgs (1980 lbs)	885 kgs (1974 lbs)	1150 kgs (2530 lbs)
	Gross (approx)		850 kgs (1870 lbs)	1300 kgs (2860 lbs)	1015 kgs (2233 lbs)	1300 kgs (2860 lbs)
<b>Packing Size</b>	Length X width X height		1400x1150x1980mm (55"x45"x78")	1600x1250x1980mm (57"x49"x78")	1600x1150x1980mm (57"x45"x78")	1600x1250x1980mm (57"x49"x78")

NOTE: We reserve the right to modify the specs of this brochure without prior notice.

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