

ACRA

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



ACRA HIGH PRECISION

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 handscripted and laminated with **TURCITE B** providing a smooth movement and ever low wearing, mostly suitable for **FORMING** grinding.

Ball ways are available for hand feed grinder **ASG-618B/818B** 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 & nose-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/818AD)

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.



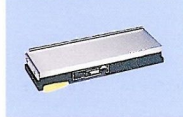
Pictures shown with options

SURFACE GRINDER

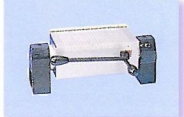
OPTIONAL ACCESSORIES AT EXTRA COSTS



Electromagnetic chuck



Permanent mag. Chuck



Inclinable permanent magnetic chuck



Dust collector



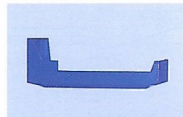
Coolant system



Coolant & dust unit



Diamond dresser



Splash guard



Balancing stand



Manual overhead dressing attachment



Manual demagnetizer



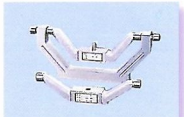
Chuck control with auto demagnetizer



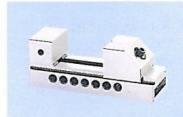
Spare wheel flange



Halogen lamp



Radius forming attachment



Precision vise



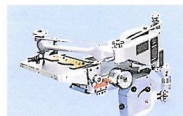
Punch former



Digital read out

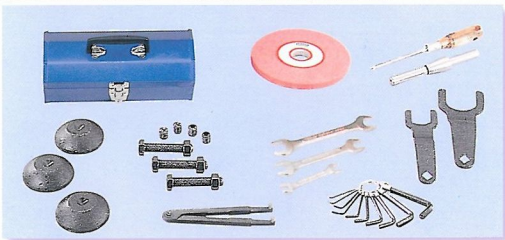


Optidress-E



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



★ 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 DOWNFEE

3A:2A+RAPID DOWNFEE

SPECIFICATION:

DESCRIPTION		MODEL	ASG- 618S 618B	ASG-818B	ASG- 618/1A 618/2A 618/3A 618AD	ASG- 818/1A 818/2A 818/3A 818AD
General Capacity	Table size		(6x18")	(8x18")	(6x18")	(8x18")
	Max. grinding length		(18-3/4")	(18-3/4")	(18-3/4")	(18-3/4")
	Max. grinding width		(16-1/3")	(8.6")	(6-1/3")	(8.6")
	Distance from table surface to spindle center		(15-3/4")	(15-3/4")	(15-3/4")	(15-3/4")
	Standard mag chuck size		(6x18")	(8x18")	(6x18")	(8x18")
Longitudinal Movement	Manual travel		(19")	(19")	(19")	(19")
	Hydraulic traverse		-	-	(18-15/16")	(18-15/16")
	Table speed (infi variable)		-	-	(1/8~1")	(1/8~1")
Cross Movement	Manual travel		(7")	(9-1/2")	(7")	(9-1/2")
	Rapid traverse (2A/3A/AD)		-	-	48inch/min	48inch/min
	Auto increment feeds (2A/3A/AD)		-	-	(1/16"~1/3")	(1/16"~1/3")
	Handwheel per graduation		(0.001")	(0.001")	(0.001")	(0.001")
	Handwheel per revolution		(0.2")	(0.2")	(0.2")	(0.2")
Vertical Downfeed	Rapid traverse (3A)		-	-	(9"/min)	(9"/min)
	Auto downfeed (AD)		-	-	(0.00003~0.004")	(0.00003~0.004")
	Handwheel per graduation		(0.0002")	(0.0002")	(0.0002")	(0.0002")
	Handwheel per revolution		(0.05")	(0.05")	(0.05")	(0.05")
Grinding Wheel	Wheel size (dia X width X bore)		(7x2/3x1-1/4")	(7x2/3x1-1/4")	(7x2/3x1-1/4")	(7x2/3x1-1/4")
	Spindle speeds (60C/50C)		3600/3000 rpm	3600/3000 rpm	3600/3000 rpm	3600/3000 rpm
Motors	Spindle motor		1.5HP	2 HP	1.5 HP	2 HP
	Cross feed motor (2A/3A/AD)		-	-	1/6 HP	1/6 HP
	Elevating motor (3A/AD)		-	-	1/4 HP	1/4 HP
	Hydraulic motor		-	-	1HP	1HP
Weight	Net (approx)		(1584 lbs)	(1980 lbs)	(1974 lbs)	(2530 lbs)
	Gross (approx)		(1870 lbs)	(2860 lbs)	(2233 lbs)	(2860 lbs)
Packing Size	length X width X height		(55"x45"x78")	(57"x49"x78")	(63"x45"x78")	(57"x49"x78")

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

ACRA MACHINERY, INC.

2050 N. DURFEE AVE. S. EL MONTE, CA91733

TEL:(800)225-4631 FAX:(626)279-1540

E-MAIL:acramach@pacbell.net