

SEEDTEC®

Precision Surface and Profile Grinding Machine
YSG-618/52 H/AH



CE
ISO 9001 : 2000

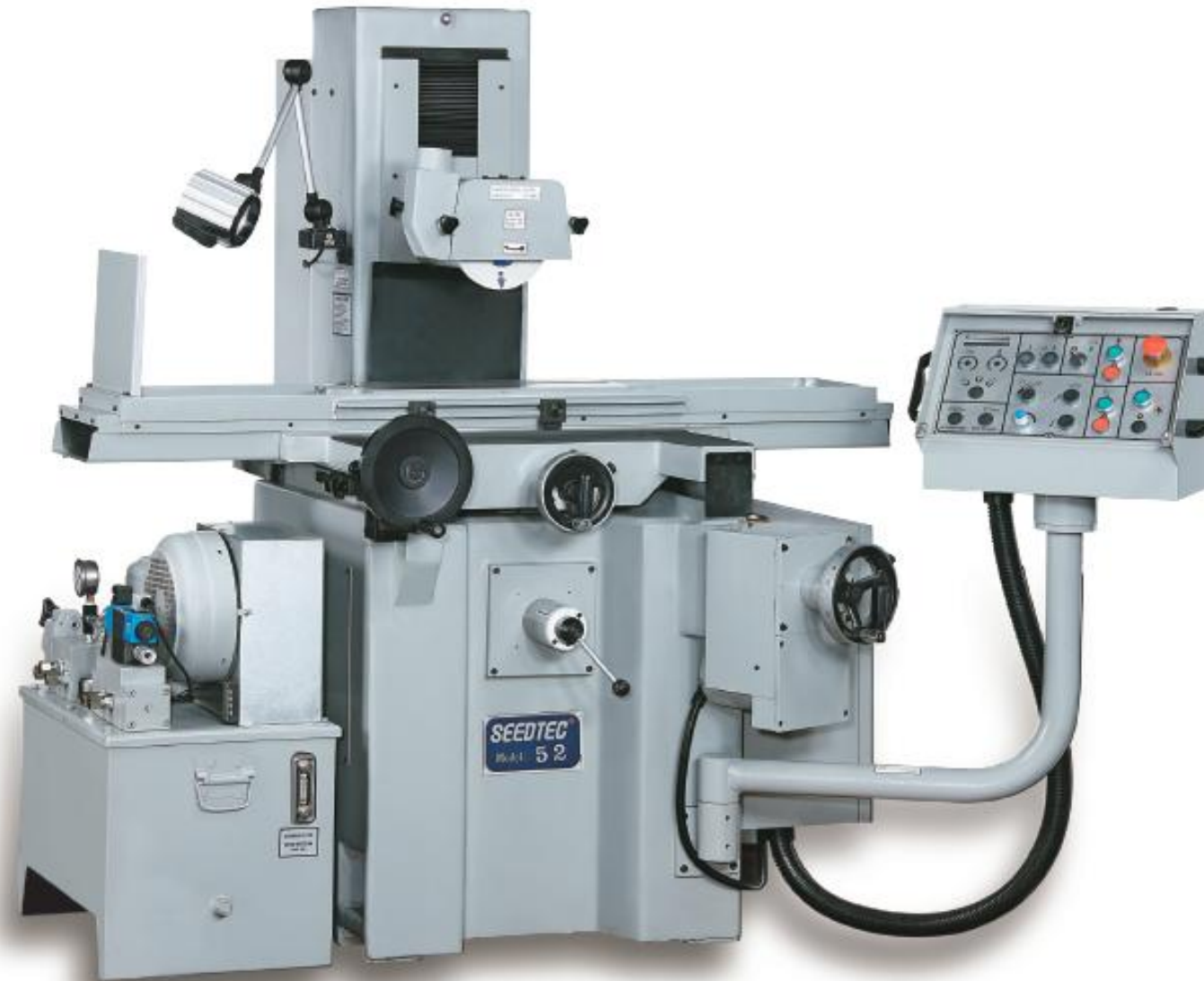
YSG-618 H/AH

- Higher productivity
- Easier to operate
- Heavy duty grinding

- Greater accuracy
- Longer accuracy life
- Advanced surface roughness

FEATURES:

- **RIGID CONSTRUCTION:**
All main elements are made of "Meehanite GC275" castings which have been annealed stress released for long lasting accuracy and stability. Rib reinforced box type construction of main parts ensure high rigidity.
- **HIGH PRECISION:**
Vee and flat ways for longitudinal movement and double vee ways for cross movement. Both longitudinal and cross mating ways are lined with "Turcite B" and precision hand scraped to provide high accuracy and eliminate stick slip.
- **AUTOMATIC LUBRICATION SYSTEM:**
The lubrication pump works as soon as the power is switched on. Lubrication system continuously lubricates ways, vertical lead screw and its bearings and gears.
- **ADVANCED HYDRAULIC CIRCUIT DESIGN:**
Improved hydraulic circuit provides vibration-free reversing motion of table, easier to move table by handwheel when table hydraulic feed is switched off. External, independent hydraulic tank provides with no heat transferred to the base.
- **SLOT GRINDING CAPABILITY:**
The saddle lock feature and precision cross feed ball screw (AH) allow for grinding of slots with highest accuracy without vibration.
- **ANTI-DUST AND WATER-PROOF DESIGN:**
All ways and electric cabinet are well protected free from dust and water to ensure consistent accuracy life.
- **TABLE HYDRAULIC FEED:**
Speed range from 1 m/min to 25m/min (3 fpm-83 fpm) provides easy operation of the machine. Stroke is adjustable by a pair of dogs in front of table. Non-contact proximity switches are used.
- **AUTOMATIC CROSS FEED:(AH)**
A combination of precision ball screw and a electric motor driving system provides quick, smooth automatic cross feed.
- **SUPER PRECISION:**
Consistent temperature control unit (room temperature $\pm 1.2^{\circ}\text{C}$) for hydraulic system is provided as an option for preventing thermal distortion of the machine when super precision is required.



YSG-52 H/AH

STANDARD ACCESSORIES



- (1) Grinding wheel..... 1 pc
- (2) Grinding wheel adaptor & puller..... 1 set
- (3) Arbor for wheel balancing..... 1 pc
- (4) Diamond tool (1/4 carat) with a base..... 1 set
- (5) Dust sweeping plate..... 1 pc
- (6) Working lamp..... 1 set
- (7) Leveling plates..... 5 pcs
- (8) Leveling bolts with nuts..... 5 pcs
- (9) Eyebolts..... 4 pcs
- (10) T-Nut & screws..... 2 sets
- (11) Necessary tools with a tool box..... 1 set
- (12) Lubrication oil (4 liters)..... 1 can
- (13) Plug (5/8")..... 4 pcs
- (14) Operation manual and inspection certificate..... 1 copy each
- (15) Spare paint..... 1 can

OPTIONAL ACCESSORIES

- (1001) Permanent-magnetic chuck (standard or decline type)
- (1002) Grinding wheel balancing apparatus
- (1003) Spare grinding wheel adaptor
- (1004) Dust suction system
- * (1005) Coolant system
- * (1006) Coolant & dust suction system
- * (1007) Inverter
- * (1008) Digital read out for cross/vertical movement
- * (1009) Micro-feeder for cross movement
- * (1010) Micro-feeder for vertical movement
- * (1011) Vertical rapid feed device
- (1012) Radius dressing device
- (1013) Angle dressing device
- (1014) Punch former
- (1015) Sine vise
- (1016) Tool maker vise
- (1017) Sine plate with permanent magnetic chuck
- * (1018) Hand dresser mounted on wheel head
- (1019) Demagnetizer (for permanent magnetic chuck)
- * (1020) Automatic demagnetizing controller (for electro-magnetic chuck)
- * (1021) Electro-magnetic chuck (standard or decline type)
- * (1022) Consistent temperature control unit for hydraulic system
- * (1023) Optical dresser with microscope
- * (1024) Coolant system C/W a magnetic dust separator
- * (1025) Coolant system with paper filter
- * (1027) Coolant system with paper filter C/W a magnetic dust separator
- (1032) Dynamic balancer for grinding wheel
- (1033) Powered conditioning tools for diamond & CBN wheel
- * (1038) Coolant & dust suction system C/W a magnetic dust separator
- * (1040) Splash guard unit

(Note: The marks "*" to be installed at factory)



Big volumn drain device installed externally for easy accessing and cleaning.



Rib reinforced box type base, with enlarged double Vee ways to ensure the best foundation of accuracy.



Delicate saddle clamping device is provided for shoulder and slot grinding.



Non-contact proximity switches and dogs for cross feed stroke adjustment.



Cartridge type spindle unit with precision bearings class ABEC7(P4) and direct drive motor (V3 vibration class)



Precision hand scraped wheel head unit and its ways with continuous lubrication.



SPECIFICATIONS

ITEM	SPEC.	MODEL	618H	618AH	52H	52AH
CAPACITY	Maximum grinding (length x width)		500 x 150 mm		550 x 220 mm	
	Max. distance from table surface to spindle center line		400 mm		400 mm	
TABLE	Table surface (length x width)		465 x 150 mm		500 x 200 mm	
	Maximum longitudinal travel		550 mm		600 mm	
	Maximum cross travel		177 mm		235 mm	
	T-slot (NO. x width)		1 x 17 mm		1 x 17 mm	
FEED	Longitudinal movement of table					
	Hydraulic feed		1~25 m/min		1~25 m/min	
	Hand feed per revolution		69 mm		69 mm	
	Cross movement of saddle					
	Intermittent feed		-	0.15mm-10mm	-	0.15mm-10mm
	Continuous feed		-	1200mm/min	-	1200mm/min
	Hand feed per revolution		5 mm		5 mm	
	Graduation of handwheel		0.02 mm		0.02 mm	
	Vertical movement of wheel head					
	Hand feed per revolution		1 mm		1 mm	
	Graduation of handwheel		0.005 mm		0.005 mm	
	Rapid feed	(OPT.)	220 mm/min		300 mm/min	
SPINDLE & WHEEL	Spindle motor		1.5 HP		2 HP	
	Spindle speed (50HZ/60HZ)		2850 / 3450 RPM		2850 / 3450 RPM	
	Grinding wheel outside diameter (50HZ/60HZ)		ø205 mm / ø180 mm		ø205 mm / ø180 mm	
	Grinding wheel bore		ø31.75 mm		ø31.75 mm	
MOTOR	Hydraulic		2HP x 4P		2HP x 4P	
	Cross feed		-	25 W	-	40 W
	Vertical rapid feed	(OPT.)	25W		80W	
	Floor space (L x W x H)		211 x 130 x 180 cm		211 x 154 x 170 cm	
	Weight (Approx.)		930 kgs		1247 kgs	
	Packing dimension (L x W x H)		192 x 112 x 196 cm		196 x 170 x 202 cm	

NOTE: Specifications are subject to change without notice.

AGENT:

SEEDTEC®

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