



Affordable and easy to operate, the Supertec 618 series of surface grinders are designed and built for accuracy, durability and smooth performance. Available in 5 different models, these machines offer many features and solutions to increase your productivity.

STP-618M	Hand Feed Surface Grinder
STP-1A618	Hydraulic Table Travel Grinder
STP-2A618	Hydraulic Table and Cross Feed Grinder
STP-618CII	Hydraulic Table, Cross and Down Feed Grinder
STP-618CXII	Hydraulic Table, Cross and Down Feed Grinder, and Slicer

Stringent Quality Control to Supertee Specifications:

Work table flatness: 0.00012"

Parallelism of longitudinal movement: 0.0001"/18"

Parallelism of cross movement: 0.000080"/6"

Run-out of wheel taper: 0.000060"







FEATURES

Precision Cartridge Spindle for High Accuracy

High rigidity spindle with four preloaded class 7(P4) bearings and run-out of spindle taper less than 0.000060" T.I.R. provides quiet, vibration free operation for better workpiece accuracy and surface finish. The cartridge type spindle is interchangeable for easy maintenance and field replacement. Spindle bearings are grease sealed for life.



Powerful 3HP Low Vibration Spindle Motor

3 HP V3 grade spindle motor assembly is dynamically balanced for low vibration and powerful output to achieve precision work standards and better grinding capability.



The ball way table travels on hardened and ground guideways to ensure smooth, easy movement of table for better quality surface finish and longer way life.





Hand Scraped Double V Base and Saddle Ways

Cross way surfaces are hand scraped and Turcite coated for absolute flatness and high wear resistance. Thus, It assures a smoother saddle movement for higher accuracy and longer life.



FEATURES

Rugged Construction

All castings are heat tempered and stress relieved twice during the manufacturing process to assure stability of the machine structure and resist deflection under load.

Massive one-piece cast column is heavily ribbed for rigidity. Hardened & ground tool steel column ways with cast spindle slide is precision fit for smooth gravity downfeed .

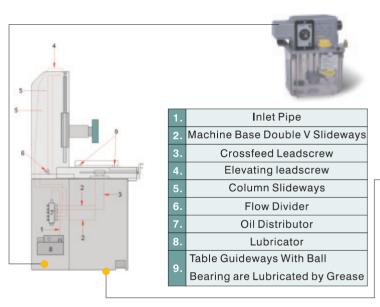


Table Reversal Mechanism

The table reversal is hydraulically powered and actuated by non-contact proximity switches. Table speed and stroke are infinitely variable and can be easily adjusted for ease of operation and higher grinding efficiency. (except 618M)



Auto Lubrication System w/Waste Reservoir

The lubrication system continuously floods the saddle, the column ways, and the leadscrews with non-recirculated filtered lube oil for better performance and less maintenance.





0.000050" Micro Downfeed and Crossfeed

Optional down feed and cross feed micrometer attachments are calibrated to 0.000050". Finer adjustment by engaging worm gear allows higher grinding tolerance with ease. (standard on CII/CXII)

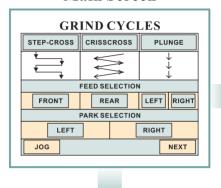


Mitsubishi PLC control uses a menu-driven LCD touch screen technology for simple operation. (CII and CXII Models only)

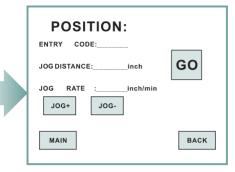
Step 1

Choose the following functions:
Grinding Mode Selection
Down Feed Selection
Table Parking Selection
Jog Setting or Next Screen

Main Screen



Jog Setting Screen

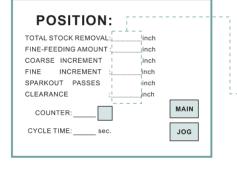




Step 2

Fill in the blanks to set total stock removal, total fine grinding amount, rough increment, fine increment, spark-out passes, & reset height, and press cycle start to complete automatic grinding cycle.

Data Setting Screen

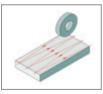




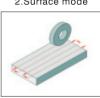
The data input key window will be displayed when touch to input data

CII Grinding Mode

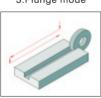




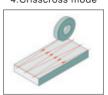
2.Surface mode



3.Plunge mode

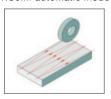


4.Crisscross mode

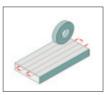


CXII Grinding Mode

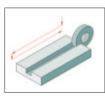
1.Semi-automatic mode



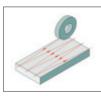
2.Surface mode



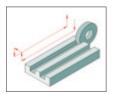
3.Plunge mode



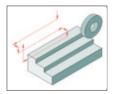
4.Crisscross mode



5.Slice mode



6.Step grinding mode





STANDARD ACCESSORIES

Quantity	Description	Quantity	Description	
1 pc	Grinding Wheel	1 set	Dust Guard	
1 set	Wheel Flange	1 set	Diamond Dresser	
1 set	Wheel Extractor	Wheel Extractor1 setBalancing ArborBolts and Pads1 setTouch-up Paint		
1 set	Bolts and Pads			
1 set	Splash Guard (Except 618M)	1 set	Tool Box With Tools	
1 set	Operator's Manual & Parts List	erator's Manual & Parts List 1 set 0.000050" Micro Downfeed (CII / C		

The Finest Solution

OPTIONAL ACCESSORIES

MAGNETIC CHUCKS AND CONTROL

Electromagnetic Chuck	6" x 18"
Auto. Demagnetizer (*)	
Permanent Magnetic Chuck	6" x 18"

COOLANT SYSTEMS AND DUST COLLECTOR

40L
20L/min, 80L
50L

SONY DIGITAL READOUT SYSTEM

One Axis Digital Readout (*)	Elevating
Two Axis Digital Readout (*)	X & Y Axis

OTHER ACCESSORIES

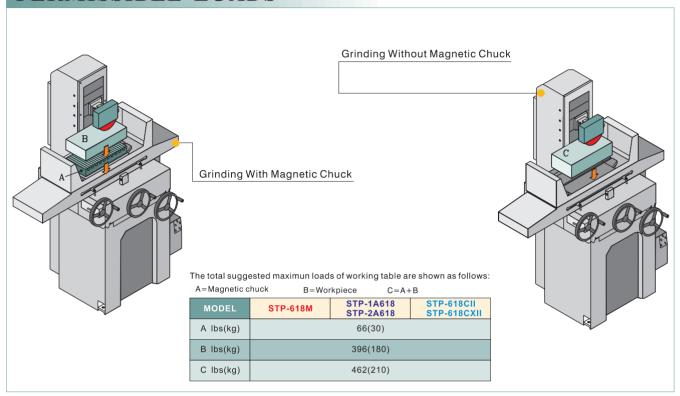
Manual Parallel Dressing Attachment (*)	
Balancing Stand	
Spare Grinding Wheel	8"X ¹ / ₂ " X1 ¹ / ₄ "
Spare Wheel Flange	
Micro Downfeed 0.000050"(*)	
Micro Crossfeed 0.000050"(*)	
Universal Wheel Guard	

^{*}Factory installation required

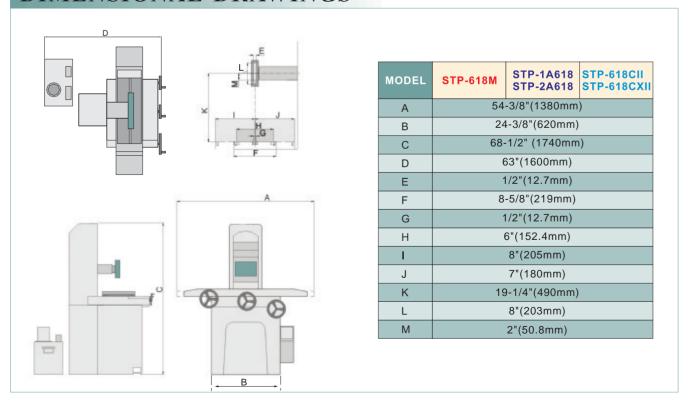
⁺Must order splash guard when ordering any coolant system (618M only)







DIMENSIONAL DRAWINGS



SPECIFICATIONS

DESCRIPTION MODEL		STP-618M	STP-1A618	STP-2A618	STP-618CII	STP-618CXII
	Table Size		6" x	18" (150 x 450m	m)	
General	Max. Grinding Length	19" (480mm)				
Capacity	Max. Grinding Width			6" (170mm)		
	Distance from Table Surface to Spindle Centerline	19.3" (490mm)				
	Standard Magnetic Chuck Size		6" x	18" (150 x 450m	m)	
Longitudinal	Manual Travel	20.9" (530mm)				
Movement	Hydraulic Travel	-		20" (510mm)		
	Table Speed (infinitely variable)	-	16-	82 fpm (5-52m/mi	n)	
	Manual Travel		7'	' (180mm)		
	Rapid Travel, approx.	-		38ipm(960	Omm/min)	
	Automatic Traverse Travel	- 6		6-3/4"(170	mm)	
Cross Movement	Automatic Traverse Increment	-		0.02-0.24"(0.4-6mm)		0.0001-0.002" (0.001-0.05mm)
	Handwheel per Graduation		0.00	1" (0.02mm)		
	Handwheel per Revolution		0	2" (5mm)		
	Rapid Travel, approx.				4ipm (10	00mm/min)
Vertical	Automatic Traverse Increment	-		0.0001-0.002" (0.001-0.05mm)		
Downfeed	Handwheel per Graduation	0.0001" (0.005mm) 0.000050"(0.0001mm)-Option			0.000050"(0.0001mm) micro downfeed	
	Handwheel per Revolution	0.050" (1mm)			0.050" (0.1mm) micro downfeed	
Grinding	Wheel Size (OD x W x B)	ø8" x 1/2" x ø1-1/4" (ø203 x 12.7 x ø31.75mm) 2850rpm/3450rpm				
Wheel	Speed (50Hz/60Hz)					
	Spindle Motor	3HP (2.3kw)				
Motor	Crossfeed Motor	-		5w	1/2HP (0.4kw)	
WO CO	Elevating Motor	-			1/2HP	(0.4kw)
	Hydraulic Motor	-		1HP (0.75kw)		
Floor Space	Total Space Required	76" x 43" x 69"		76" x 59" x 69"		
. ioo. opace	(L x W x H)	(1950 x 1100 x 1770mm)		(1950 x 1500 x 1770mm)		
Weight	Net, approx.	1588lbs (722kgs)		1775lbs (807kgs)		
	Gross, approx.	1808lbs (822kgs)		1995lbs (907kgs)		
Total Rated Power, approx.		3HP (2.3kw)	4HP (3kw)	4.1HP (3.1kw)	4.6HP (3.5kw)	5HP (3.8kw)
Packing Dimension (L x W x H)		58" x 44" x 76" (148 x 110 x 194cm)		x 194cm)	61" x 49"x 76" (1	55 x 124 x 194cm)

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