

SPECIFICATIONS

DESCRIPTION		MODEL	DW-618M	DW-1A618	DW-2A618	DW-618CII
General Capacity	Table Size	6"x18"				
	Max. Grinding Length	18.7"				
	Max. Grinding Width	6.3"				
	Distance from Table Surface to Spindle Centerline	15.7"				
	Standard Mag Chuck Size	6"x18"				
Longitudinal Movement	Manual Travel	19"				
	Hydraulic Traverse	19"				
	Hydraulic feed (table speed)approx.	3-82 FT/Min				
Cross Movement	Manual Travel	7"				
	Auto cross feed Travel (2A&CII)	7"				
	Hand feed per graduation	0.2"				
	Continuous cross feed (approx.)50/60HZ	(2A&CII)	25 in/min			
	Handwheel per Revolution	0.001"				
Vertical Downfeed	Rapid traverse(approx.)	--				9"/Min
	Slow traverse(approx.)	--				1.1"/Min
	Hand feed per revolution	0.050"				0.050"/MPG
	Hand feed per graduation	0.0001"				0.0001"/MPG
	Auto downfeed rate	--				0.0001"~0.0035"
	Jog	--				0.0001"
	Pre-set spark out times	--				0.9(passes)
	Manual pulse generator	--				x1,x5,x10
Grinding Wheel	Wheel Size (dia x width x bore)	ø8" x 0.5 "x 1.25" (203x12.7x31.75mm)				
	Speed (50Hz/60Hz)	3000/3600rpm				
Motor	Spindle driver motor	3HP (2.3kw)				
	Hydraulic motor	1HP				
	Cross feed motor	25W				
	Elevating Motor	40W				
Weight	Rapid hand elevatipn servo motor	400W				
	Net weight/gross weight(approx).	2002/2288 LBS				
Packing Size	Length x width x height.	61"x51"x87"				

※The manufacturer reserves right to modify the design, specification mechanisms etc. without notice.

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The Finest
Solution

DW-618M · 1A618 · 2A618 · 618CII
PRECISION SURFACE & GRINDER

FEATURES

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.

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

Stringent Quality Control to Supertec 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"



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.

Precision Cartridge Spindle for High Accuracy

High rigidity spindle with preloaded class 7(P4) bearings and run-out of spindle taper less than 0.000030" 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.



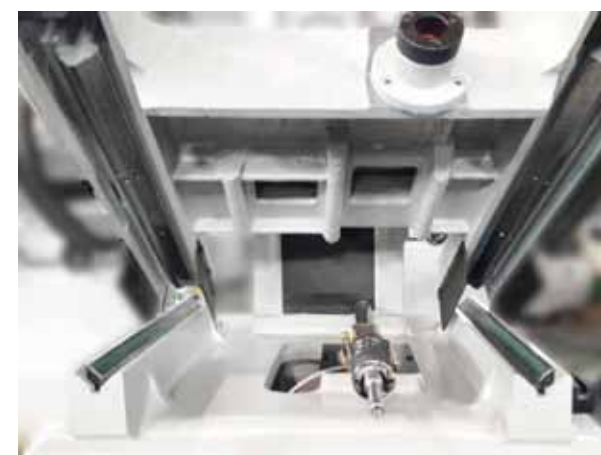
Smooth Ball Way Table

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.

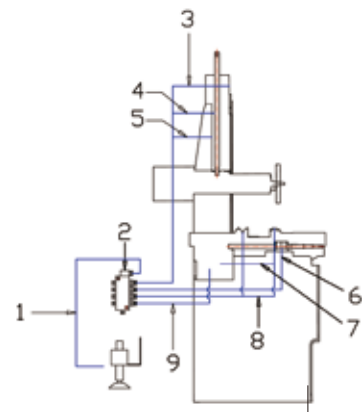


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FEATURES

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.



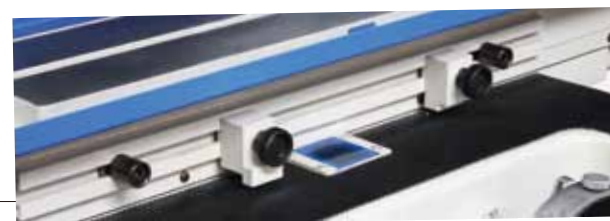
1.	Oil Pump
2.	Flow Drvider
3.	Oil Level Indicator
4.	Elevating Leadscrew
5.	Column Slideways
6.	Crossfeed Leadscrew
7.	Cross Feed Slideways
8.	Longitudinal Slideways
9.	Lubrication Oil Tank

Auto Lubrication System w/Waste Reservoir

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

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)



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)

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

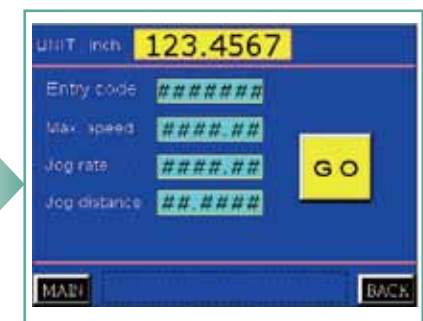
Step 1

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

Main Screen



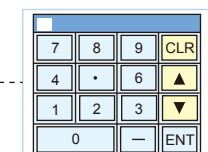
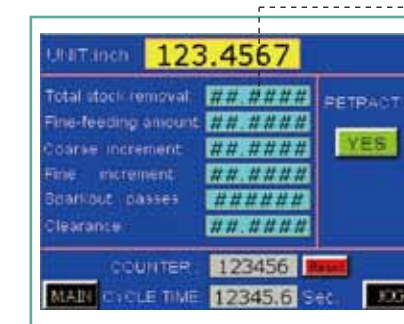
Jog Setting Screen



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.

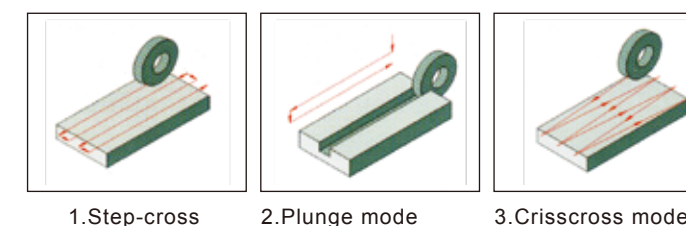
Data Setting Screen



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

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CII Grinding Mode



1.Step-cross

2.Plunge mode

3.Crisscross 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	1 set	Balancing Arbor
1 set	Bolts and Pads	1 set	Touch-up Paint
1 set	Splash Guard (Except 618M)	1 set	Tool Box With Tools
1 set	Operator's Manual & Parts List	1 set	0.000050" Micro Downfeed (CII only)

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OPTIONAL ACCESSORIES

MAGNETIC CHUCKS AND CONTROL

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

COOLANT SYSTEMS AND DUST COLLECTOR

Coolant System (+)	40L
Coolant System W/Magmeyic Separator & Paper Filter (+)	20L/min, 80L
Combination Coolant & Dust Collector (+)	50L
Dust Collector	
Splash Guard	

SONY DIGITAL READOUT SYSTEM

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

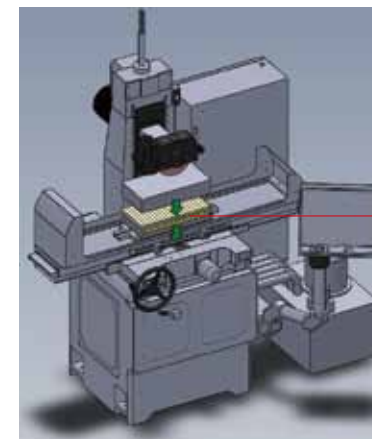
OTHER ACCESSORIES

Manual Parallent Dressing Attchment (*)	
Balancing Stand	
Spare Grinding	8"X½" X1¼"
Spare Wheel Flange	
Micro Downfeed 0.000050" (*)	
Micro Crossfeed 0.000050" (*)	
Universal Wheel Guard	

*Factory installation required

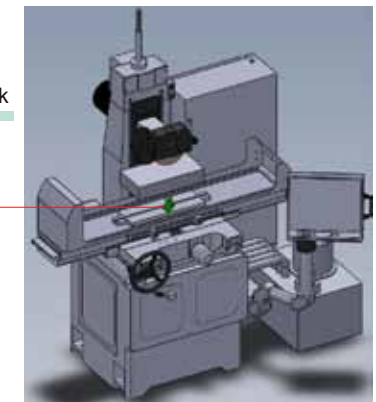
+Must order splash guard when ordering any coolant system (618M only)

PERMISSIBLE LOADS



Grinding With Magnetic Chuck

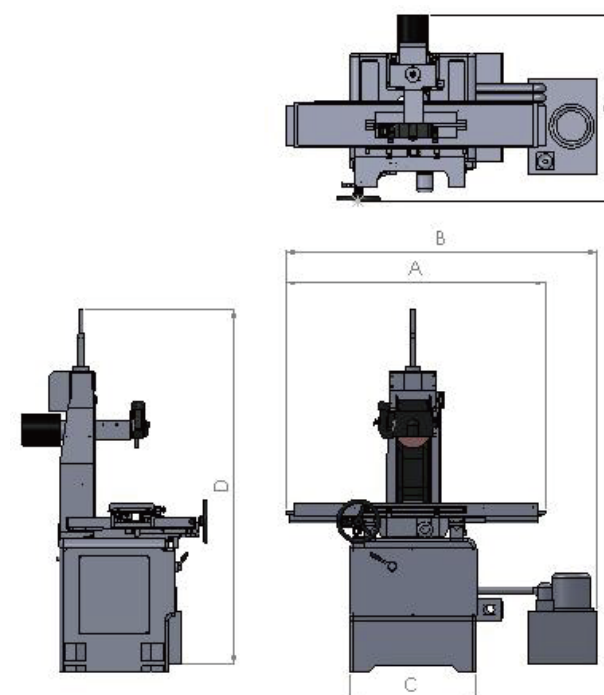
Grinding Without Magnetic Chuck



The total suggested maximum loads of working table shown as follows:
A=Magneyic chuck B=Workpiece C=A+B

MODEL	DW-618M	DW-1A618 DW-2A618	DW-618CII
A lbs(kg)		66 (30)	
B lbs(kg)		396 (180)	
C lbs(kg)		462 (210)	

DIMENSIONAL DRAWINGS



MODEL	DW-618M	DW-1A618 DW-2A618	DW-618CII
A	52"(1320mm)	70"(1770mm)	70"(1770mm)
B	52"(1320mm)	70"(1770mm)	88"(2230mm)
C	28"(720mm)	28"(720mm)	28"(720mm)
D	76"(1940mm)	76"(1940mm)	76"(1940mm)
E	43"(1100mm)	68"(1730mm)	64"(1620mm)