

SPECIFICATIONS

GT Column Surface Grinders 2A-2Axis Automatic, 3A-3Axis Automatic

MODEL	PNC	GT-2448	GT-2460	GT-2480	GT-24100	GT-24120	GT-3248	GT-3260	GT-3280	GT-32100	GT-32120
Table clamping surface (WxL) inch	W	24					32				
	L	53	65	84	104	124	53	65	84	104	124
Maximum cross travel	inch	26					33.86				
Maximum grinding area	W	24					31.89				
	L	49	61	80	100	120	49	61	80	100	120
Max. distance between spindle center to table		31.5/39.4(optional)					31.5/39.4(optional)				
Down feed per division (MPG)	inch	0.0001,0.0005,0.001					0.0001,0.0005,0.001				
Down feed per revolution (MPG)	inch	0.01,0.05,0.1					0.01,0.05,0.1				
Auto downfeed Servo motor	inch	0.0005-0.002					0.0005-0.002				
Longitudinal table speed	fpm	10-105					10-105				
Crossfeed intermittent	inch/feed	0.004-1.57					0.004-1.57				
Crossfeed continuous	fpm	0.9-5					0.9-5				
Crossfeed per division	inch	0.0001,0.001,0.005					0.0001,0.001,0.005				
Grinding wheel dimension (ODxDxWidth)		20x5x2 / (20x5x3 optional)					20x5x2 / (20x5x3 optional)				
Spindle speed(50/60HZ)	R.P.M.	1450/1720					1450/1720				
Spindle motor	H.P.	15/25(optional)					15/25(optional)				
Hydraulic pump motor 6 pole	H.P.	7.5	7.5	7.5	7.5	10	7.5	7.5	7.5	10	10
Total power motor	H.P.	24/34	24/34	24/34	24/34	26.5/36.5	24/34	24/34	24/34	26.5/36.5	26.5/36.5
Floor space (HxWxL)	L	187	211	250	289	329	187	211	250	28-	329
	W	117					135				
	H	96.8					102.7				
Net weight(approx)	lbs	14300	16060	18920	22000	24200	17380	19140	22220	25300	27940
Chuck weight	lbs	700	880	1190	1490	1790	1200	1310	2070	2590	3100
Maximum workpiece on chuck	lbs	2640	3300	3960	3960	4400	2640	3300	3960	3960	4400

☆ Model 2A is two axis automatic with rapid down feed, model 3A is three axis automatic and auto-stop, Y & Z axis are driven by servo motor with touch screen panel NC control.
 ☆ Manufacturer reserves the right to change or improve specifications without notice.

☆ Saddle movement type grinding area: 6" x 14" ~ 18"x40"
 ☆ Double column type grinding area: 48" x 80" ~ 80" x 240"
 ☆ Arm movement type grinding area: 32" x 48" ~ 40" x 220"

STANDARD ACCESSORIES

1. Grinding wheel 1 Pc.
2. Wheel flange 1 set.
3. Coolant system 1 set.
4. Tools with box 1 set.
5. Balancing arbor 1 Pc.
6. Wheel extractor 1 set.
7. Chiller for hydraulic oil 1 set.
8. Hydro static system 1 set.

OPTIONAL ACCESSORIES

1. Vertical spindle grinding equipment
2. Electro-magnetic chuck
(Includes rectifier with automatic demagnetizing.)
3. Spare wheel flange
4. Balancing stand
5. Halogen machine lamp
6. Coolant system with paper filter
7. Magnetic dust separator
8. DRO 1 or 2 Axis
9. Variable speed spindle

SUPERTEC MACHINERY, INC.

6435 ALONDRA BLVD, CA 90723

(562)220-1675 PH

(562)220-1677 FAX

www.supertecusa.com

E-MAIL:info@supertecusa.com

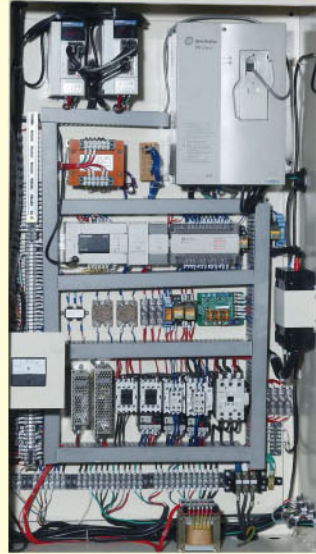
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COLUMN TYPE SERIES

Precision and Heavy Duty

Surface Grinding Machine



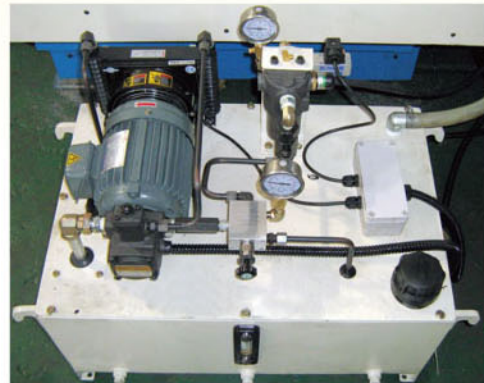


24 VOLT ELECTRIC CONTROL AND TOUCH SCREEN CONTROL PANEL

- The machine is equipped with the PLC touch screen control with easy to learn conversational shop floor language.
- The control has a safety feature that prevents the hydraulics system from being started with out the electromagnetic chuck engaged. This feature will not allow the wheel head to rapid down while the Hydraulic system is in operation.
- Original workpiece zero position is stored in the control memory even if power to the machine is lost.



Touch screen panel



LUBRICATION SYSTEM

A fully automatic hydrostatic lubrication system is employed on the slideways. An alarm alerts the operator when the oil gets low preventing damage to the machine.



HYDRAULIC TANK SYSTEM

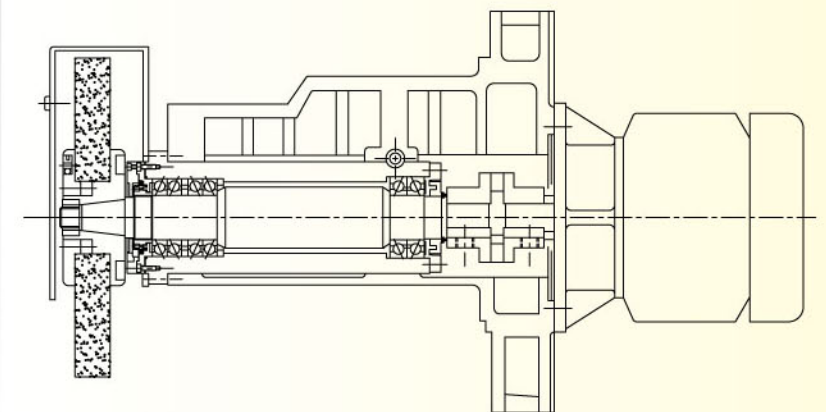
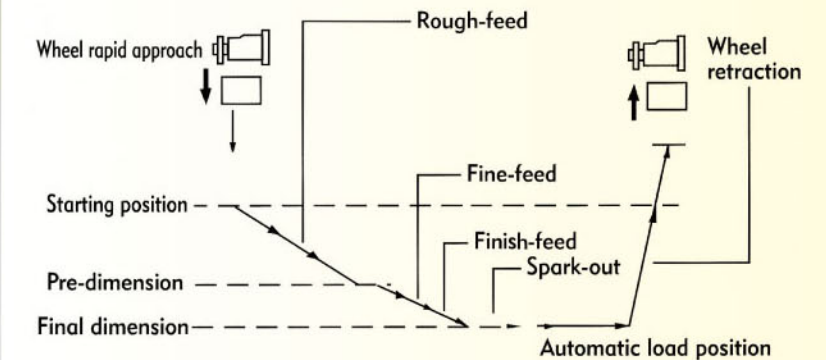
CHILLER FOR HYDRAULIC OIL

A separate hydraulic unit is equipped with a chiller system to avoid transference of heat and vibration from hydraulic system to the machine.

SPINDLE AND WHEELHEAD

The extra rigid designed spindle is suitable for heavy duty grinding. The grinding spindle is supported by six pieces of super precision angular contact, preloaded bearings with permanent lifetime grease lubrication (as shown). The interchangeable spindle is mounted in the rigid wheelhead. It is driven by a dynamically balanced 15 HP motor via a flexible coupling to eliminate deflection and vibration. This permits an exceptional quality grinding finish.

AUTOMATIC GRINDING CYCLE



POWERFUL PLC TOUCH SCREEN CONTROL

- A precision ballscrew, and A.C. servo motor with encoder, coupled with the PLC touch screen control allows the operator a wide range of grinding programs and control features. Grinding cycles include: Surface, Plunge, and Crisscross modes.
- A color touch screen is easy to read and simple to operate. Both rough and fine feed rates can be set on the touch screen. The wheelhead can be jogged up or down with use of two push button switches.

FEATURES AND CONSTRUCTION

- Both V-ways of the table are precision ground and hand scraped, they are lubricated by hydrostatic lubrication system for smoother movement and longer machine life. The table moves in the longitude axes only while the machines column moves in the cross feed axes. The table is fully supported by the base casting even when at either end position.
- All of the major cast iron components such as the base, table, column, wheel head and saddle are honey comb ribbed and are annealed to relieve stress improving the machine performance and life expectancy.
- The vertical travel of the wheel head is driven by a precision ground ball screw and A.C Servo Motor with encoder. The slide ways are lubricated by an automatic lube system to insure smooth movements.
- Easy setting of the cross travel, for automatic cross feed is on the control panel setting distance and reversal points viz the push buttons on the control panel.