Supertec



PRECISION SURFACE & GRINDER

The Imest Solution

= Supertec

The PLANOTEC surface grinder excels due to the ease of the control settings in the manual and automatic grinding cycles. This grinder distinguishes itself with exceptional quality standards and workmanship. With simplified shop floor conversational programming it helps to increase productivity and is suitable for tool room or production application.

"Made By SUPERTEC" equals accuracy, precision and reliability.



Saddle Type Structure

- The base utilizes a rigid box design that provides strong steady support to ensure the machines long term precision.
- The double Vee design of the base slideways provides greater rigidity and increased grinding accuracy.

Downfeed Increment Input 0.0001mm/0.000010" 0.0001" flatness accuracy & Ra 6um finish

PLANOTEC is set to become the industry standard

PLANOTEC-820NC / 1224NC / 1632NC

MACHINE CONSTRUCTION

Hydraulic power pack

The stand alone hydraulic unit eliminates vibration and heat transfer.

A cooling fan reduces the hydraulic oil temperature and limits thermal growth in the machine and allows for accurate smooth movement of the slideways



Auto lubrication system

The automatic lubrication system continuously supplies re-circulated filtered lube oil to all slideways to prolong the machines life and provide smooth, low friction, stick-slip free movement.

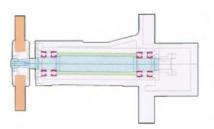
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MACHINE CONSTRUCTION

Spindle

High rigidity wheel spindle rotates in grease packed precision class 7 angular contact ball bearings. The cartidge spindle is interchangeable for easy maintenance and replacement. Spindle, coupling and class V3, 7.5HP spindle motor are precisely balanced for low vibration and powerful output to achive grinding accuracy and superior finishes.





Vertical movement (Y axis)

The column is a massive one piece casting that is heavily ribbed for maximun rigidity. The wheel head travels on high precision linear slideways via precision ballscrew and A.C. servo motor which is driven from the top to ensure a highly accurate downfeed. Manual control of the Y axis is done through the conveniently situated MPG.

Cross movement (Z axis)

Hight grade Meehanite cast iron is used for the bed, saddle and other major castings. All castings are heat tempered and stress relieved during the manufacturing process to assure stability of the machine structure and resist deflection under load. The saddle movement is controlled through hydrostatic, precisely hand scraped. Turcite-B coated double Vee slideways that are driven via a precision ballscrew and A.C. motor.



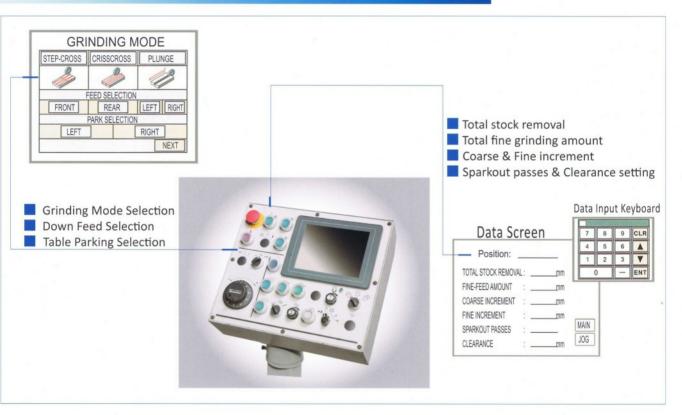
The hydraulically powered table traverses on hydrostatic, precisely



The hydraulically powered table traverses on hydrostatic, precisely hand scraped, Turcite-B coated, double Vee slideways which maintain a perfect fit for the life of the grinder. The double Vee design on the table is most important in maintaining accuracy during slot and shoulder grinding. The proximity switch style reverse trip dogs are properly covered and can easily set the table stroke. The table speed is infinitely variable.

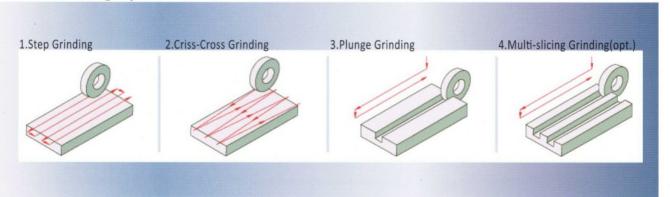
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PLC control with LCD touchnology for simple operation



The Finest Solution

NC Grinding Cycle





Guarantees The Finest Solution



PLANOTEC-24120NC

Column Type Structure

- The column type design uses less floor space than a saddle type.
- The column is a boxway design for enhanced stability.
- A precision ballscrew and A.C. servo motor on the downfeed insures maximun accuracy and repeatability.

MACHINE CONSTRUCTION



Column Type "T" shaped Base

- The integral "T" shaped base is manufactured from Meehanite casting that undergoes tempering and stress relief treatment to ensure structure stability.
- The base is 2.5 times longer than the working table insuring the table is fully supported during grinding operations.
- The working table has deepend double Vee slideways with an extra wide span enabling the table to move with smooth stick free operation.
- A hydrostatic lubrication system allows the working table to be fully supported by a pressurized film of oil, thus eliminating the friction between guidyway surfaces. The lubrication system has a pressure sensor switch to make sure the machine has enough oil film pressure.

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CNC Surface Grinders



MACHINE ACCESSORIES

STANDARD ACCESSORIES

- ■Standard grinding wheel with flange
- ■Working lamp
- ■Leveling screws with blocks

- ■Balancing stand with arbor
- ■Wheel extractor
- ■Operation manual with part list
- ■Hand tools box with adjustment kits
- ■Diamond kit with holder
- ■Splash guard
- ■Standard coolant tank





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OPTIONAL ACCESSORIES

- ■Permanent magnetic chuck
- ■Tilting Permanent magnetic chuck
- Combine coolant and dust collector
- Dust collector
- ■Hydraulic parallel dressing attachment
- Automatic dressing attachment with compensation system
- ■Inverter for wheel head spindle
- Auto demagnetizer
- Manual demagnetizer
- Option scale
- ■Full Enclosure
- Oil and mist separator
- ■Spare wheel flange(5")



■ Coolant system with Magnetic separator and paper filter



■ Coolant system with Magnetic separator



■ Chiller



■Rotary table



 Roller type dressing attachment



■ Diamond wheel dressing attachment



■ Magnetic chuck control (Standard)



■Magnetic chuck control (Hi power)



■Electromagnetic chuck (fine pole)



■Angle dressing attachment



 Radius dressing attachment



■ Parallel dressing attachment (manual)



Scope type dressing attachment



■ Dual side dressing attachment



■Roller type balancing stand

SPECIFICATIONS

DESCRIPTION /	MODEL	820NC	1224NC	1632NC	2040NC	2060NC	2448NC	2460NC	2480NC	24100NC	24120NC	
Table size		8"x20"	12"x24"	16"x32"	20"x47"	20"x59"	24"x47"	24"x59"	24"x78"	24"x98"	24"x117"	
Max. Grinding Length	Longitudinal	20"	24"	34"	49"	61"	49"	61"	80"	100"	119"	
Max. Grinding Width	Crosswise	8"	12"	16"	20"	20"	24"	24"	24"	24"	24"	
Standard Chuck Size		8"x20"	12"x24"	16"x32"	20"x40"	20"x59"	24"x47"	24"x59"	24"x78"	24"x98"	24"x117"	
Max. Distance from Table Surface to Spindle Centerline		20"	22"		24"		28"					
"Table Longitudinal Travel(X axis)"	Hydraulic Traverse	22"	26"	34"	44"	63"	49"	61"	80"	100"	119"	
	Max. Traverse (Manual)	24"	28"	36"	46"	65"	51"	63"	82"	102"	121"	
	Table Speed, Infinitely Variable	4~82fpm	10~82fpm			10~105fpm						
"Cross Travel (Z axis)"	Rapid Travel, approx	2~3fpm		2~	3fpm		0.9~5fpm					
	Automatic Traverse Increment	0.02"~0.4"		0.0	2"~0.4"		0.04"~0.4"(opt.0.004"~1.57")					
	Cross Traverse (Automatic)	8.5"	14.5"	18.5"	22"		25.5"					
	Max. Traverse (Manual)	9"	15"	15" 19"		25"		26"				
	Handwheel per Revolution	0.2"	0.2"		0.2"		MPG 0.01"/0.1"/0.5"					
	Handwheel per Graduation	0.0125"	0.0008"		0.0	0.0008"		MPG 0.0001"/0.001"/0.005"				
Wheelhead Vertical Infeed	Automatic Infeed	0.00005"~0.004"		0.0000	4"~0.002"		0.00004"~0.001"					
	Handwheel per Revolution (MPG)	0.004"		0.004"/	0.04"/0.4"		0.01"/0.05"/0.1"					
	Handwheel per Graduation (MPG)	0.00004"	0.00004"/0.004"/0.04"				0.0001"/0.0005"/0.001"					
Grinding Spindle	Speed	3600rpm		178	30rpm		1800rpm					
Grinding Spindle	Motor	3HP/5HP(OPT.)	7.5HP/10	OHP(OPT.)	10HP/1	5HP(OPT.)		15HP/20HP(OPT.)				
Grinding Wheel	ling Wheel Diameter x Width x Bore Ø8"x0.5"xØ1.25"		ø14"x2"xø5" ø14"x			xø5"mm	ø20"x2"xø5"mm					
Crossfeed Motor		40W	0.2KW		1/4HP		1KW(SERVO)					
Elevating Motor		40W	1KW		1KW		3KW(SERVO)					
Hydraulic Motor		1HP	2HP		5HP Î		5HP					
Weight	Net Weight, approx.	3240LB	6614LB	8598LB	10560LB	15653LB	11905LB	19400LB	15565LB	17434LB	19467LB	
	Gross Weight, approx.	3571LB	7055LB	9259LB	11880LB	18960LB	17813LB	21605LB	22046LB	24030LB	26433LB	
Packing Size	Lengthxwidthxheight	87"x63"x87"	113"x89"x99"	121"x89"x101"	131"x90"x100"	177"x89"x100"	138"x90"x96"	204"x90"x101"	178"x91"x99"	300"x111"x103"	300"x111"x103"	

Note: All specifications shown above are for reference. The manufaceturer reserves the right to modify the design, specifications and its mechanisms etc., of the machine without notice.

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