

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"	24"	24"	24"	24"	28"	28"	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"	0.02"~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"	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"		0.0008"	MPG 0.0001"/0.001"/0.005"					
Wheelhead Vertical Infeed	Automatic Infeed	0.0005"~0.004"	0.0004"~0.002"			0.0004"~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	1780rpm			1800rpm					
	Motor	3HP/5HP(OPT.)	7.5HP/10HP(OPT.)	10HP/15HP(OPT.)		15HP/20HP(OPT.)					
Grinding Wheel	Diameter x Width x Bore	ø8"x0.5"xø1.25"	ø14"x2"xø5"		ø14"x2"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		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 manufacturer reserves the right to modify the design,specifications and its mechanisms etc., of the machine without notice.

Supertec

THE FINEST SOLUTION



PLANOTEC SERIES

PRECISION SURFACE GRINDER

SUPERTEC MACHINERY, INC.

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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 applications.

"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

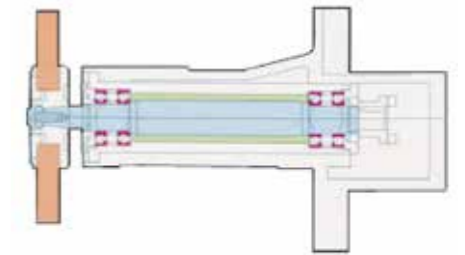
The automatic lubrication system continuously supplies re-circulated filtered lube oil to all slideways to prolong the machines life and provide smooth, low friction, stick-slip free movement.

The Finest Solution

MACHINE CONSTRUCTION

Spindle

High rigidity wheel spindle rotates in grease packed precision class 7 angular contact ball bearings. The cartridge 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 achieve grinding accuracy and superior finishes.



Vertical movement (Y axis)

The column is a massive one piece casting that is heavily ribbed for maximum 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.

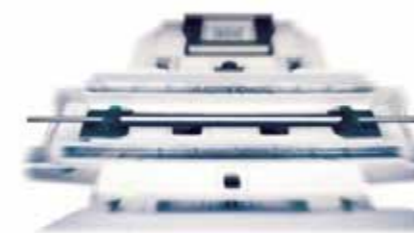
Cross movement (Z axis)

High 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.



Longitudinal movement (X axis)

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.



PLC control with LCD touchnology for simple operation

GRINDING MODE

STEP-CROSS	CRISSCROSS	PLUNGE

FEED SELECTION

FRONT	REAR	LEFT	RIGHT
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PARK SELECTION

LEFT	RIGHT	NEXT
------	-------	------

- Grinding Mode Selection
- Down Feed Selection
- Table Parking Selection

- Total stock removal
- Total fine grinding amount
- Coarse & Fine increment
- Sparkout passes & Clearance setting

Data Screen

Position: _____

TOTAL STOCK REMOVAL : _____mm

FINE-FEED AMOUNT : _____mm

COARSE INCREMENT : _____mm

FINE INCREMENT : _____mm

SPARKOUT PASSES : _____

CLEARANCE : _____mm

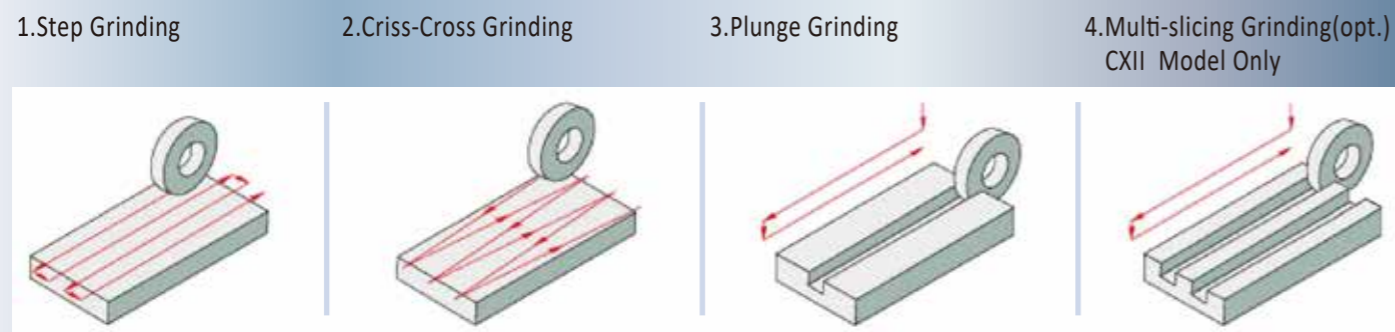
Data Input Keyboard

7	8	9	CLR
4	5	6	▲
1	2	3	▼
0	-	ENT	

MAIN
JOG

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 maximum 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.

EASY 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



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



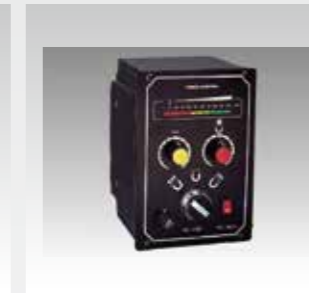
■ Rotary table



■ Roller type dressing attachment



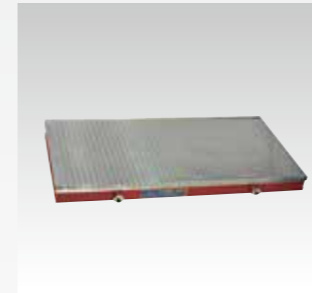
■ Diamond wheel dressing attachment



■ 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