

The **PLANOTEC**, excels due to the ease of setting and operation in manual and automatic grinding cycles.

This machine distinguishes itself by exceptional quality standards and workmanship "**Made by SUPERTEC**", providing accuracy, precision and reliability. With simplified conversational programming, it helps to increase productivity and is suitable for general tool room or simple production environments.

— **Guarantees The Finest Solution** —



Downfeed Increment Input 0.0001mm / 0.000010"

PLANOTEC is set to become the operators choice.

(Machine shown with optional accessories)

PLANOTEC — 820CII / 1224CII / 1632CII

The Finest Solution

Mitsubishi PLC control with LCD touch screen technology for simple operation.

Innovation, ease and friendly operation with conversational programming.

Operator can easily select the canned cycles and set the grinding data for automatic grinding mode.

Main Screen

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

Data Screen

POSITION:-1234.567

TOTAL STOCK REMOVAL : 1234.567mm
 FINE-FEED AMOUNT : 1234.567mm
 COARSE INCREMENT : 1234.567mm
 FINE INCREMENT : 1234.567mm
 SPARKOUT PASSES : 1234.567mm
 CLEARANCE : 1234.567mm

CYCLETIME:12345.6sec. CONTER:1234567 [BACK]

* Input the value for :
 - Total Stock Removal
 - Total Fine Grinding Amount
 - Coarse & Fine Increment
 - Spark Out Passes & Clearance Setting

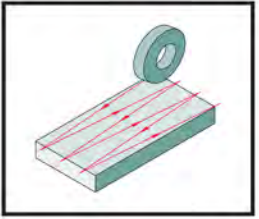
Number Key window

7	8	9	CLR
4	5	6	▲
1	2	3	▼
0	-	ENT	

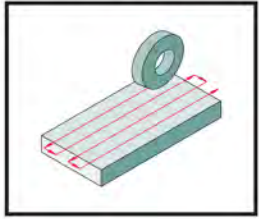
The Finest Solution

CI Grinding Cycles

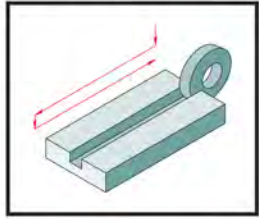
1.Semi-automatic mode



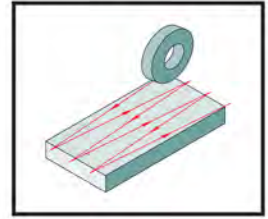
2.Surface mode



3.Plunge mode

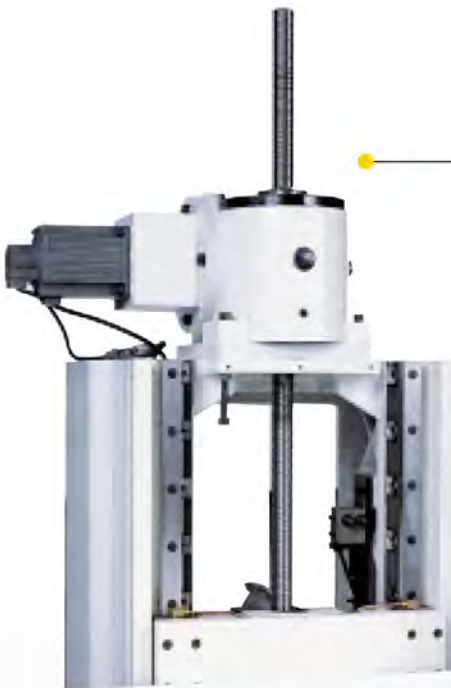
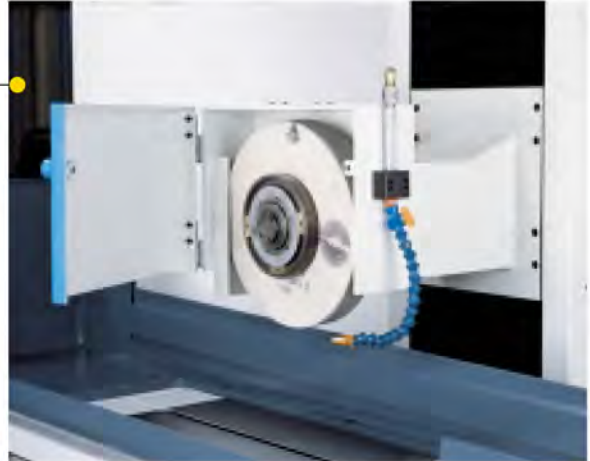


4.Crisscross mode



MACHINE CONSTRUCTION**● Spindle**

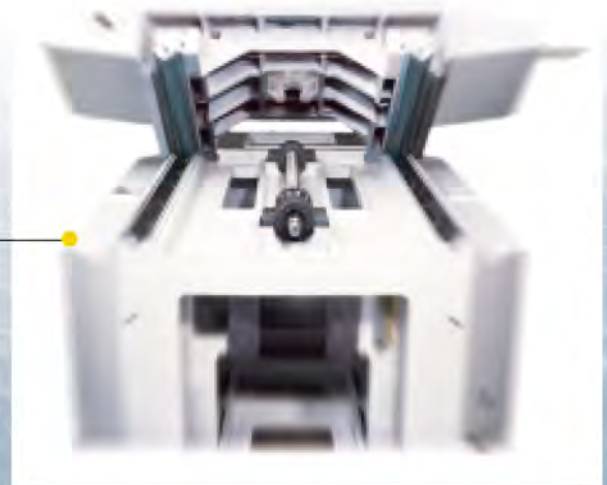
High rigidity wheel spindle rotates in grease packed precision class 7 angular contact ball bearings. The cartridge spindle is interchangeable for easy maintenance and replacement. Spindle, couplings and class V3 7 1/2 spindle motor are precisely balanced for low vibration and powerful output to achieve grinding accuracy and superb finishes.

**● Vertical movement (Y axis)**

Massive one-piece cast column is heavily ribbed for rigidity. Wheelhead travels on the high precision linear slideways by precision ballscrew and AC servomotor drive from the column top, thus ensures high accurate downfeed. Manual control of the Y axis by conveniently situated MPG.

● Cross movement (Z axis)

High grade Meehanite cast iron is used for bed, saddle and major units. All castings are heat tempered and stress relieved during manufacturing process to assure stability of the machine structure and resist deflection under load. Saddle operates on hydrostatic, precisely hand scraped, and Turcite coated double vee slideways by precision ballscrew.



The Finest Solution



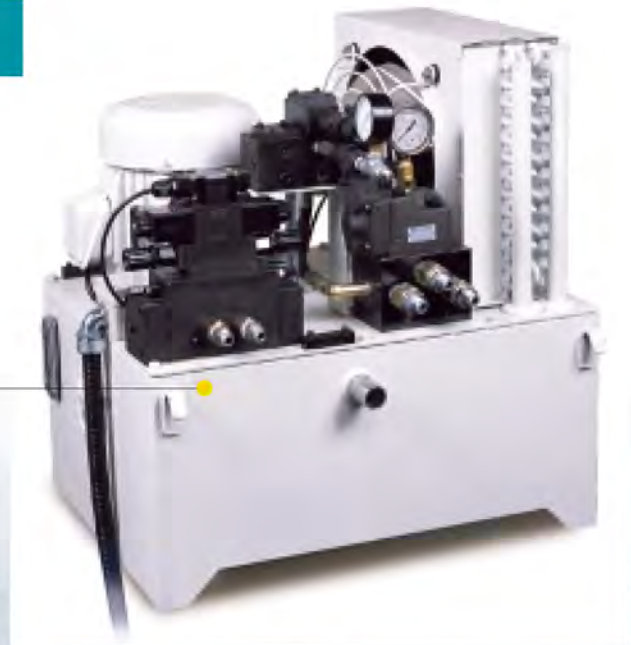
● **Table movement (X axis)**

Hydraulically powered table traverse operating on hydrostatic, precisely hand scraped, and Turcite coated double vee slideways, which maintains a perfect fit for the life of your grinder. This is important in shoulder and slot grinding. The proximity switches operated reverse dogs are properly covered for operator's safety and easily set suitable table stroke to obtain the highest grinding efficiency. Table speed is infinitely variable.

The **Finest** Solution

● **Hydraulic power pack**

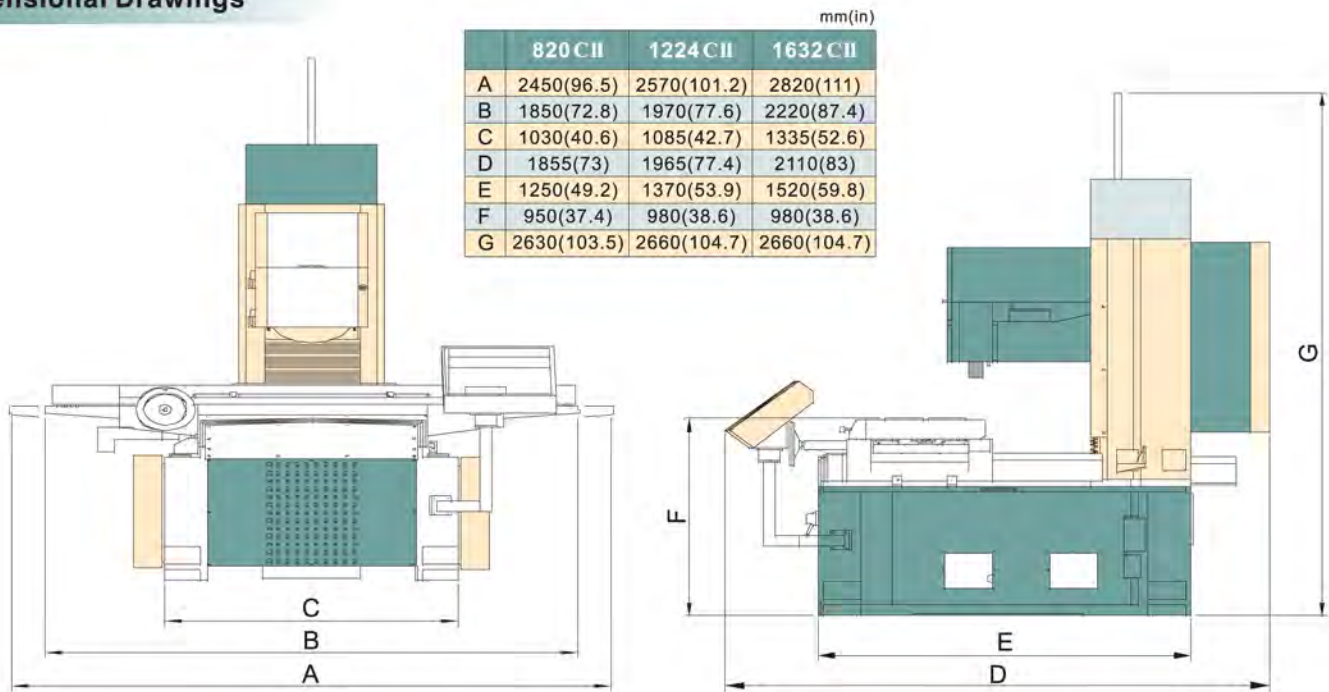
Hydraulic power pack with cooling fan unit ensures accuracy and the smoothest movement of the table, and avoids possible deflection from heat.



● **Auto lubrication system**

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

The Finest Solution

Dimensional Drawings

Optional Accessories:

1.	Electro-magnetic Chuck
2.	Auto. Demagnetizer
3.	Spare Wheel Flange
4.	Manual Parallel Dressing Attachment
5.	Hydraulic Parallel Dressing Attachment
6.	Overhead Dresser with Auto. Compensation System
7.	Balancing Stand
8.	Coolant System(58L)
9.	Coolant System w/Paper Filter(20L/min, 80L or 60L/min, 140L)
10.	Coolant system w/Magnetic Separator & Paper Filter
11.	Dust Collector
12.	Combination Coolant & Dust Collector
13.	Variable spindle Speeds for Wheelhead
14.	Digital Readout
15.	Dynamic Balance System

Standard Accessories:

1.	Grinding Wheel	1 pc.
2.	Grinding Wheel Flange	1 set
3.	Wheel Extractor	1 pc.
4.	Wheel Balancing Arbor	1 pc.
5.	Diamond Holder including Diamond Dresser	1 pc.
6.	Splash Guard	1 set
7.	Tool Box w/Adjusting Tools	1 set
8.	Leveling Screws w/Blocks	1 set
9.	Operator's Manual & Parts Lists	1 set

Additional equipment:

A comprehensive range of additional equipment is available upon request to suit an individual requirements.

PLANOTEC SPECIFICATIONS

DESCRIPTION / MODEL		mm (inch)		
		820 CII	1224 CII	1632 CII
Table Size		200x500 (8"x20")	300x600 (12"x24")	400x800 (16"x32")
Max. Grinding Length	Longitudinal	500 (20")	600 (24")	800 (32")
Max. Grinding Width	Crosswise	200 (8")	300 (12")	400 (16")
Standard Chuck Size		200x500 (8"x20")	300x600 (12"x24")	400x800 (16"x32")
Max. Distance from Table Surface to Spindle Centerline		500 (20")	600 (24")	
Table Longitudinal Travel (X axis)	Hydraulic Traverse	550 (22")	650 (26")	850 (34")
	Max. Traverse (Manual)	600 (24")	700 (28")	900 (36")
	Table Speed, Infinitely Variable	3-25 m/min (10-82fpm)		
Cross Travel (Z axis)	Rapid Travel, approx.	1000 mm/min(40 ipm)		
	Automatic Traverse Increment	0.5mm-8mm(0.02"-0.32")		
	Cross Traverse (Automatic)	245 (9.6")	360 (14")	460 (18")
	Max. Traverse (Manual)	255 (10")	370 (14.5")	470 (18.5")
	Handwheel per Revolution	5mm (0.2")		
	Handwheel per Graduation	0.02mm(0.001")		
Wheelhead Vertical Infeed	Automatic Infeed	0.0001-0.3mm(0.000010"-0.01")		
	Handwheel per Revolution (MPG)	0.01/0.1/1mm(0.001"/0.01"/0.1")		
	Handwheel per Graduation (MPG)	0.0001/0.001/0.01mm(0.000010"/0.0001"/0.001")		
Grinding Spindle	Speed	60Hz/1800rpm,50Hz/1500rpm		
	Motor	3.75kw(5 HP)	3.75kw(5HP)/5.6kw(7.5 HP)	
Grinding Wheel	Diameter x Width x Bore	305x32x76.2mm (12"x1¼"x3")	355x50x127mm (14"x2"x5")	
Crossfeed Motor		1/4 HP /6P		
Elevating Motor		400 kw(0.5 HP)		
Hydraulic Motor		1.5Kw(2 HP)		
Weight	Net Weight, approx.	2600 kgs (5780 lbs)	3300 kgs (7330 lbs)	4100 kgs (9100 lbs)
	Gross Weight , approx.	2980 kgs (6560 lbs)	3600 kgs (8000 lbs)	4500 kgs (9900 lbs)
Packing Size	Length x Width x Height	190cmx190cmx220cm (74.8"x74.8"x86.6")	227cmx210cmx230cm (89.4"x82.7"x90.6")	270cmx227cmx230cm (106"x89.4"x90.6")

Note: All the 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.