

PL 600

Horizontal Turning | Turn-mill Centers



Right Turning Platform for Your Specific Application

PL 600 U

PL 600 UR

PL 600 R/Y

www.bfwindia.com

Service Toll Free: 7406044444

High Performance Horizontal Turning Centers

Models: PL 600U | PL 600UR | PL 600R-Y

BFW Horizontal Turning Centers PL series are an example of how great machine design delivers versatility and great performance. Its integrated castings provide rigidity, productivity & accuracy.

Built with optimized structure for improving power utilization, minimize the vibration for turning heavy & large diameter components. i.e Large crankshafts, rotor shafts, truck axle beams & pump bearings etc.

The better working ergonomics are the prime objective of BFW to develop state-of-art horizontal turning center series. Rugged & graded cast iron structural parts with higher mechanical performance are for roughing to finishing operation with long term accuracy with precision.

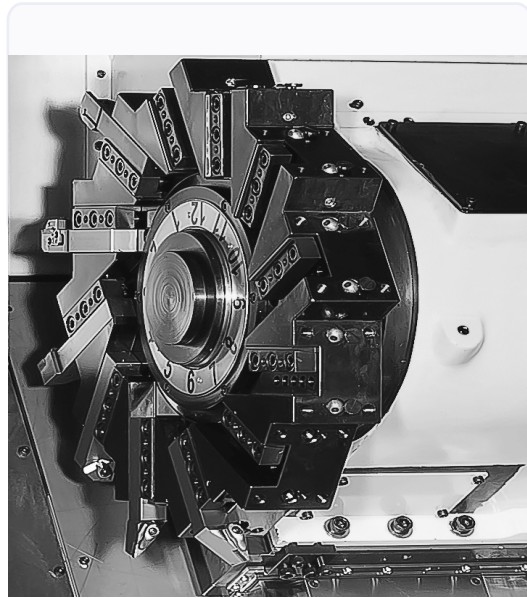
Wide access to the chuck zone facilitates ease of loading and unloading of parts.

“High Performance Turning Centers” Engineering philosophy is based on three strong pillars.

- ▶ **Rigidity**
- ▶ **Higher Productivity**
- ▶ **Extensive Series Range**

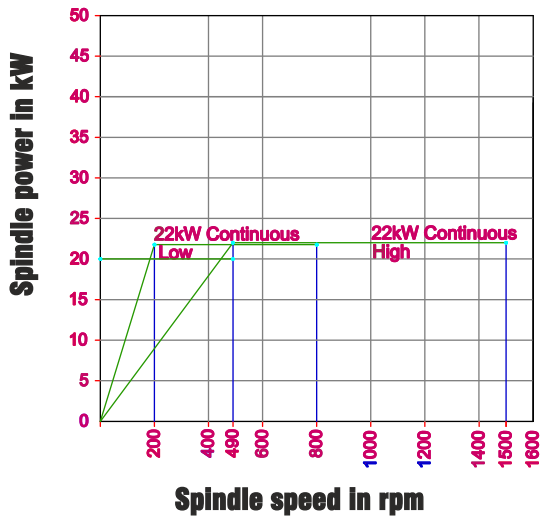
| | | PL 600 U/ UR | | | | | | | | | | | | PL 600 UR - Y | | |
|---|---------|---|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------------------------------|-------------------|-------------------|
| Model | | 1000 ABC | | 1500 ABC | | 2000 ABC | | 3000 ABC | | 4000 ABC | | 4500 ABC | | 1000 ABC | 1500 ABC | 2000 ABC |
| Chuck size | mm | A2 11 | A2 15 | A2 11 | A2 15 | A2 11 | A2 15 | A2 11 | A2 15 | A2 11 | A2 15 | A2 11 | A2 15 | A2 11 | A2 11 | A2 11 |
| | | 500 | 630 | 500 | 630 | 500 | 630 | 500 | 630 | 500 | 630 | 500 | 630 | 500 | 500 | 500 |
| Max turning dia on chuck | mm | 630 | | 630 | | 630 | | 630 | | 630 | | 610 | | 500 | 500 | 500 |
| Max turning dia between centers (over carriage) | mm | 460 | | 460 | | 460 | | 460 | | 460 | | 460 | | 500 | 500 | 500 |
| Axes strokes X/ Z (PL 600 U) | mm | 415/ 1100 | | 415/ 1600 | | 415/ 2140 | | 415/ 3100 | | 415/ 4100 | | 415/ 4600 | | 280/ 790 | 280/ 1070 | 280/ 1590 |
| Axes strokes X/ Z (PL 600 UR) | mm | 415/ 1100 | | 415/ 1600 | | 415/ 2120 | | 415/ 3100 | | 415/ 4100 | | 415/ 6620 | | NA | | |
| Axes strokes X/ Z/ Y | mm | NA | | | | | | | | | | | | 300/ 1180/ +/- 75 | 300/ 1680/ +/- 75 | 300/ 2180/ +/- 75 |
| Spindle nose (opt) | | A2-11 (A2-15) | | | | | | | | | | | | A2 -11 | A2 -11 | A2 -11 |
| Spindle power | kW | Fanuc/ Siemens 22/ 26 | | | | | | | | | | | | Fanuc/ Siemens/ Mitsubishi 22/ 26 | | |
| Live tool motor power max | kW/ rpm | 5.5 kW/ 3200 Rpm Applicable for PL 600 UR only | | | | | | | | | | | | 5.5/ 7.5 kW/ 3000 Rpm | | |
| Max turning dia x max length | mm | 460/ 1000 | | 460/ 1500 | | 460/ 2000 | | 460/ 3000 | | 460/ 4000 | | 460/ 4500 | | 500/ 1000 | 500/ 1500 | 500/ 2000 |

PL 600

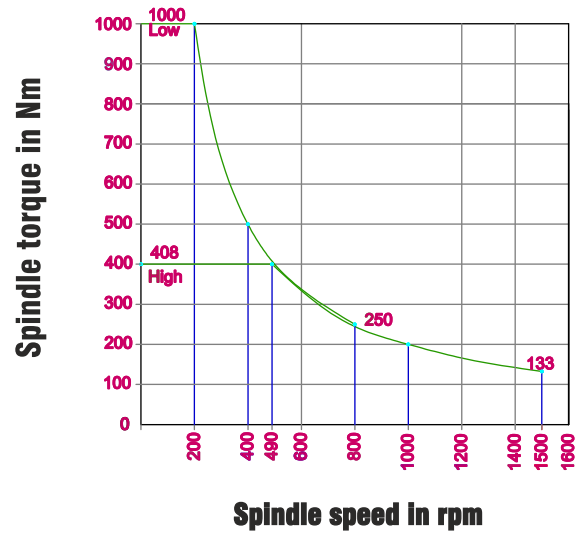


Spindle Characteristics

Power Characteristics

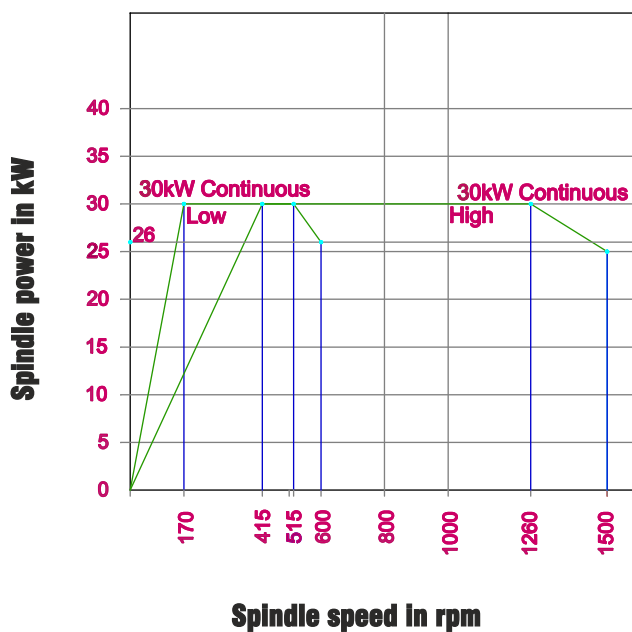


Torque Characteristics

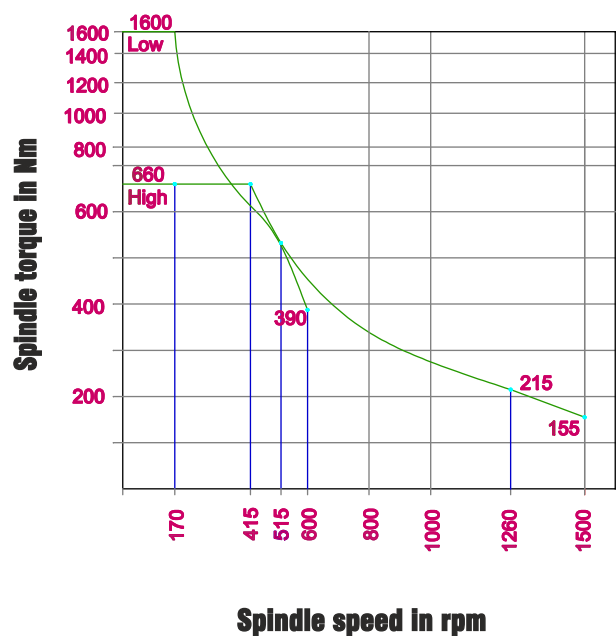


Motor: Fanuc 22/ 26 KW

Power Characteristics

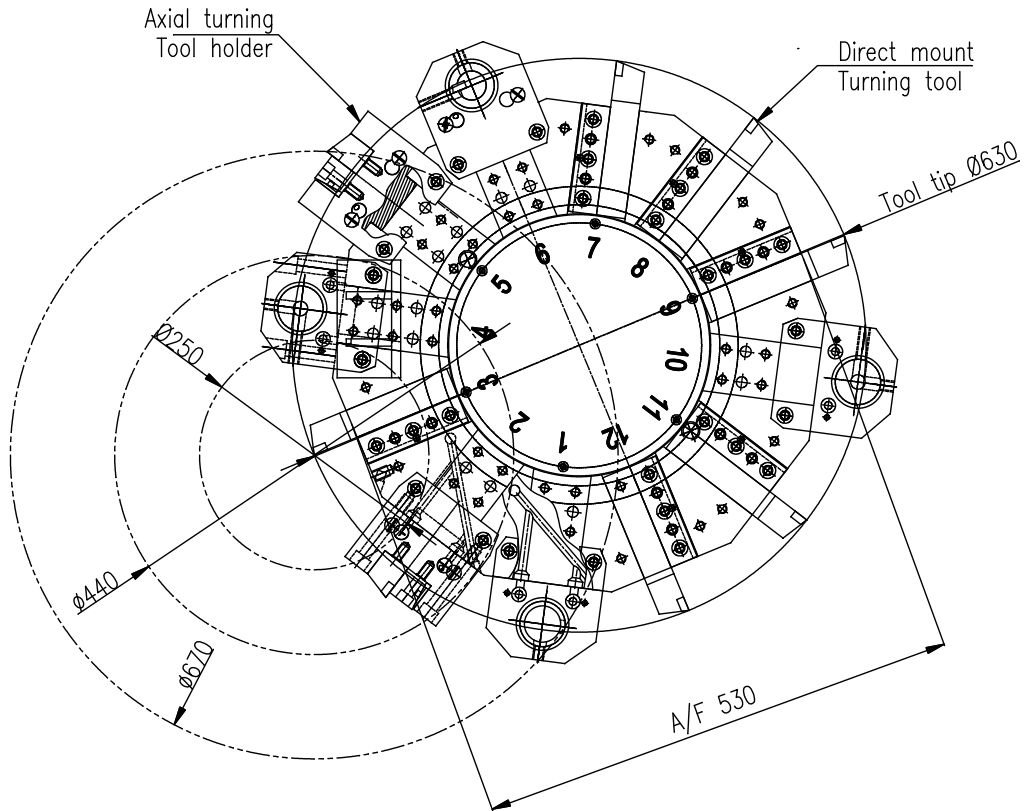


Torque Characteristics

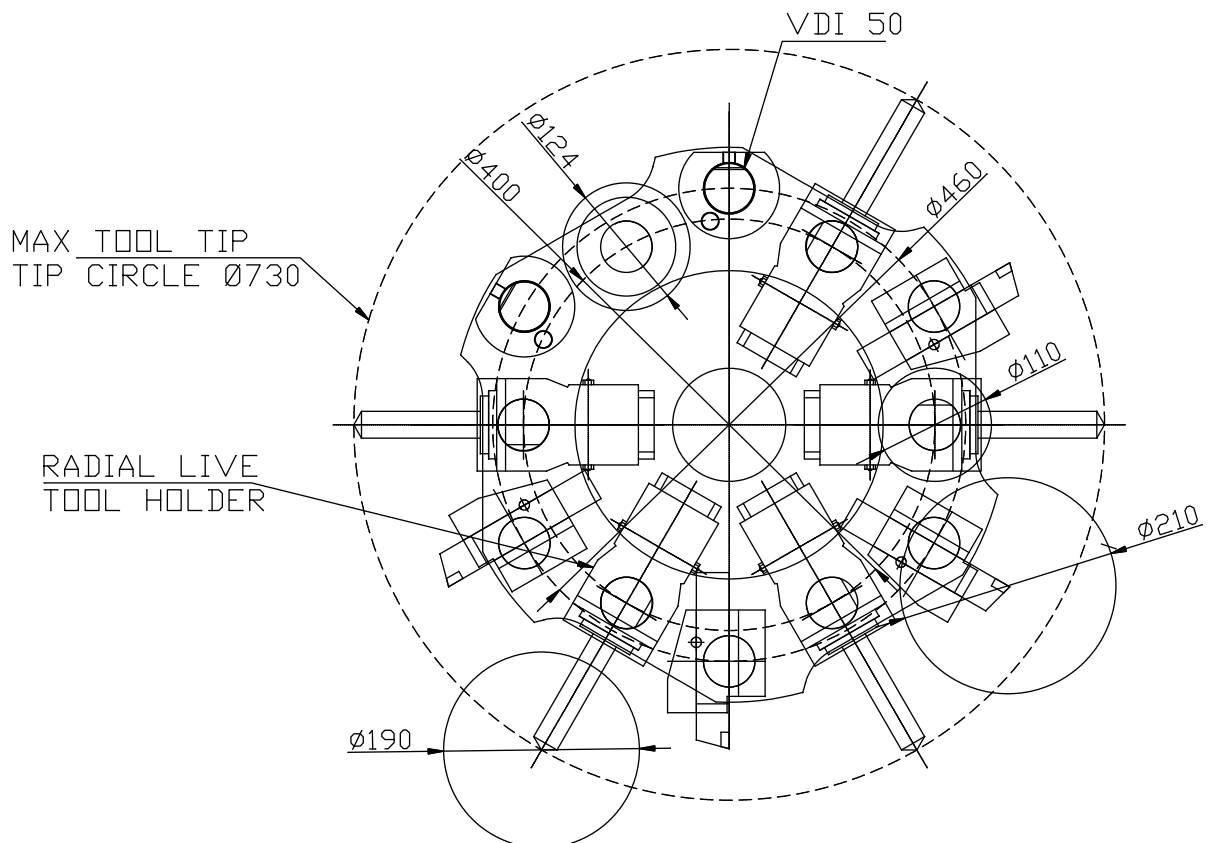


Motor: Fanuc 30/ 37 KW

Interference Diagram - Turning Center

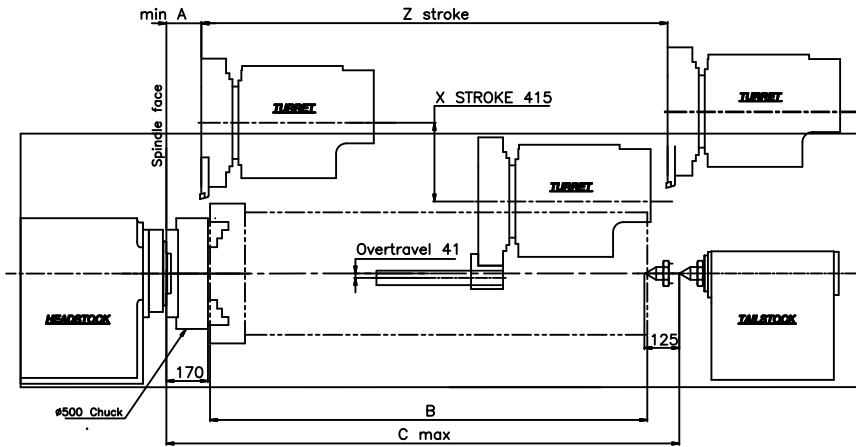


Interference Diagram - Turn mill Center



Capacity Diagrams

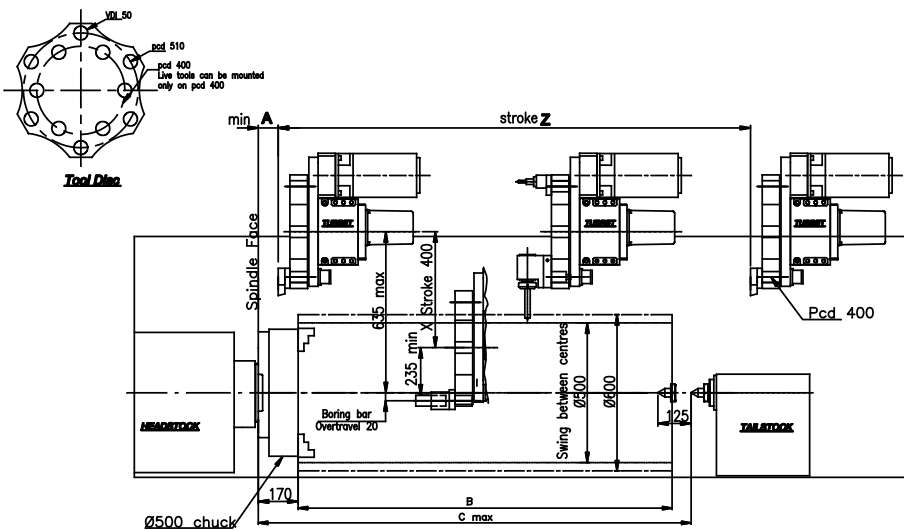
PL600U/1000 TO 4500 TURNING CENTRE
CAPACITY LAYOUT



PL600U

| | 1000 | 1500 | 2000 | 3000 | 4000 | 4500 |
|---|------|------|------|------|------|------|
| Z | 1120 | 1620 | 2140 | 3100 | 4100 | 4660 |
| A | 140 | 140 | 160 | 200 | 230 | 220 |
| B | 1000 | 1500 | 2000 | 3000 | 4000 | 4500 |
| C | 1220 | 1720 | 2250 | 3300 | 4330 | 4880 |

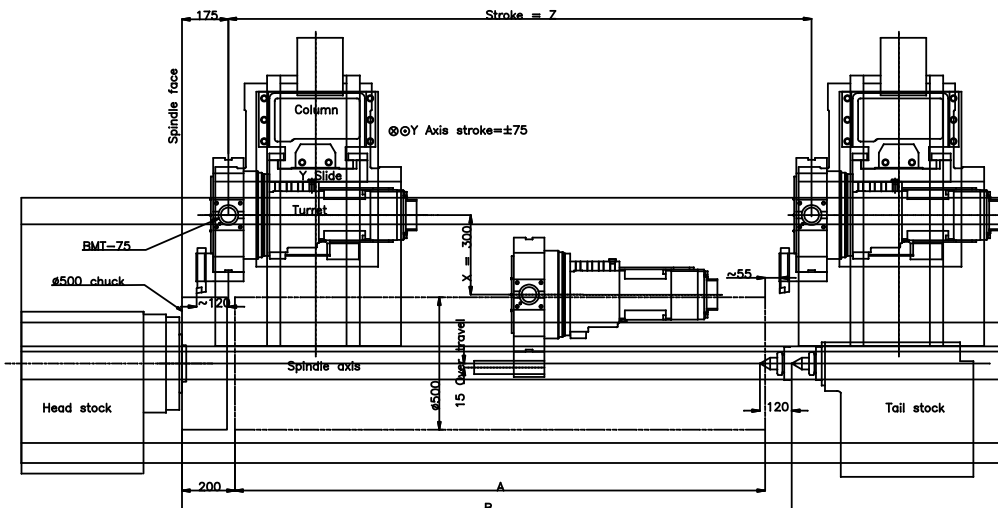
PL600UR/1000 TO 4000 TURN MILL CENTRE
CAPACITY LAYOUT



PL600UR

| | 1000 | 1500 | 2000 | 3000 | 4000 |
|---|------|------|------|------|------|
| Z | 1100 | 1600 | 2120 | 3100 | 4100 |
| A | 200 | 200 | 220 | 250 | 275 |
| B | 1000 | 1500 | 2000 | 3000 | 4000 |
| C | 1220 | 1720 | 2250 | 3300 | 4330 |

PL600R-Y /1000 TO 2000 TURN MILL CENTER
WITH Y AXIS CAPACITY LAYOUT



PL600R-Y

| | 1000 | 1500 | 2000 |
|---|------|------|------|
| Z | 1180 | 1680 | 2180 |
| A | 1000 | 1500 | 2000 |
| B | 1300 | 1800 | 2300 |

Standard & Optional Features

| | PL 600U | PL 600 UR | PL 600 R/ Y |
|--|---------|-----------|-------------|
| Automatic lubrication for slide-ways (including pressure & level switches) | S | S | S |
| Built-in operator's console | S | S | S |
| Cabin type splash guard | S | S | S |
| Foot switch for chuck & tail stock | S | S | S |
| Complete electrical fittings for 3 phase AC 415 +/- 10 % 50 Hz +/- 1 Hz | S | S | S |
| Coolant level indicator | S | S | S |
| Front door safety interlock on/off key switch | S | S | S |
| Front manual door interlock | S | S | S |
| Hydraulic oil level indicator | S | S | S |
| Leveling screws and plates | S | S | S |
| Load meter for spindle (part of the display) | S | S | S |
| Manual pulse generator | S | S | S |
| One set of Manuals in English | S | S | S |
| Process completion lamp | S | S | S |
| Spindle jog switch | S | S | S |
| Tool box with tool kit | S | S | S |
| Work light | S | S | S |
| Write protect with key switch | S | S | S |
| Coolant pumping unit with chip tray | S | S | S |
| BFW standard ivory white RAL 9002 machine colour with orange door RAL 2002 | S | S | S |
| Air conditioner for main electrical panel | S | S | S |
| Tool number display | S | S | S |
| Separate push button for cycle start & stop | S | S | S |
| Lifting slings & tube | S | S | S |
| 2 speed geared drive | S | S | S |
| A2-11 spindle | S | S | S |
| 15/ 18.5 kW spindle motor | S | S | NA |
| 30/ 37 kW spindle motor | S | S | NA |
| Ø105 mm big bore belt drive spindle | NA | NA | 0 |
| Work holding for chuck upto Ø315 mm | 0 | 0 | NA |
| Work holding for chuck upto Ø400 mm | NA | NA | 0 |
| Special turret disc for tool shank of 32 height x 25 width, up to 85 mm overhang for crankshaft journal turning applications | 0 | 0 | NA |
| Steady rest of maximum clamping range 30- 245 mm with side mounted cylinder | 0 | 0 | NA |
| Steady rest of maximum clamping range 60-280 mm with side mounted cylinder | NA | NA | 0 |
| Linear scales on X and Z axes with air pressurization to prevent dust entry | 0 | 0 | 0 |
| Interfacing of gantry for automatic loading & unloading of workpiece | 0 | 0 | 0 |
| Motorized swing arm type probe for measuring tool offsets Radio type job probe for workpiece measurements | 0 | 0 | 0 |
| Automatic pneumatic operated door | 0 | 0 | 0 |
| Steady rest with narrow arms for crankshaft journal turning applications | 0 | 0 | 0 |
| Longitudinal chip conveyor with chip bin in lieu of coolant with chip tray | 0 | 0 | 0 |
| Cross chip conveyor with chip bin in lieu of coolant tank with chip tray | 0 | 0 | 0 |

Technical Specifications - PL 600U

| Specifications | Unit | PL500U/ 1000 | PL600U/ 1500 | PL600U/ 2000 | PL600U/ 3000 | PL600U/ 4000 | PL600U/ 4500 |
|--|--------|---|------------------------------------|----------------------------|--|------------------------------------|----------------------------|
| Capacity | | | | | | | |
| Maximum turning length | No | 1000 | 1500 | 2000 | 3000 | 4000 | 4500 |
| Swing over bed way cover - axis ht. 410/ 460 | mm | 720/ 800 | 660/ 760 | 650/ 750 | 640/ 740 | 630/ 730 | 610/ 710 |
| Max turning diameter on chuck - axis ht. 410/ 460 | mm | 700/ 700 | 660/ 700 | 650/ 700 | 640/ 700 | 630/ 700 | 610/ 700 |
| Swing between centers (over carriage) | mm | 500/ 600 | 500/ 600 | 500/ 600 | 500/ 600 | 500/ 600 | 500/ 600 |
| Max bar capacity | mm | 90 mm dia with appropriate hollow chuck & cylinder | | | | | |
| Distance from spindle face to turret face | mm | 140 - 1260 | 140 - 1760 | 160 - 2300 | 200 - 3300 | 230 - 4330 | 220 - 4880 |
| Distance - spindle face to tailstock center | mm | 1220 | 1720 | 2250 | 3300 | 4330 | 4880 |
| Max weight between centers | kg | 1000 | 1000 | 1000 | 1200 | 1200 | 1200 |
| Max between centers + 1 steady | kg | 1500 | 1500 | 1500 | 1700 | 1700 | 1700 |
| Bed | | | | | | | |
| Bed slant angle with respect to vertical | deg | 22.5 | | | | | |
| Type of guide ways, overall guide-ways width | | Integral, rectangular induction hardened & ground, 1000 | | | | | |
| Axes drives | | | | | | | |
| Working stroke X axis | mm | 415 | 415 | 415 | 415 | 415 | 415 |
| Working stroke Z axis | mm | 1120 | 1620 | 2140 | 3100 | 4100 | 4660 |
| Servomotor static torque X & Z axes | Nm | Fanuc - 20, Siemens - 16 | | | Fanuc - 20, Siemens - 16 | | |
| Ball-screw diameter x pitch X & Z axes | mm | X - 50 x 10 Z = 50 x 10 | X - 50 x 10 Z = 50 x 10 | X - 50 x 10 Z = 50 x 15 | X - 50 x 10 Z = 63 x 20 | X - 50 x 10 Z = 63 x 20 | X - 50 x 10 Z = 63 x 20 |
| Rapid traverse rate X & Z axes | m/ min | 12 & 15 | 12 & 15 | 12 & 15 | 12 & 10 | 12 & 10 | 12 & 10 |
| Head stock | | | | | | | |
| | | Standard | | Option 1 - high speed | | Option 2 - high power | |
| Drive type | | Poly V belt drive with in-built 2 speed gearbox in head-stock | | | | | |
| Spindle motor power - contin. / short term | | | | | | | |
| Spindle motor power - contin./ short term | mm | A2-8/ 87 | Std: A2-8/ 87, Optional: A2-11/ 87 | | Std: A2-8/ 87, Optional: A2-11/ 87 | | |
| Spindle speed range - 2 ranges | | NA | | | Hollow shaft encoder, soft and hard brakes | | |
| Spindle nose/ Hole through spindle | | MT5 In-built revolving spindle with 3+2 brgs | | | MT5 In-built revolving spindle with 3+2 brgs | | |
| Tail stock | | | | | | | |
| Quill centre | | Std - MT4 | Optional - MT5 | | Std - MT4 | Optional - MT5 | |
| Quill diameter x stroke | mm | 160 x 125 | | | 160 x 125 | | |
| Quill actuation, Maximum quill thrust | kgf | Hydraulic, 800 | | | Hydraulic, 800 | | |
| Base clamping & linking to saddle | kgf | Std - programmable, hydraulic | | | Std - programmable, hydraulic | | |
| Base clamping & linking to saddle | | Std - manual | Optional - programmable, hydraulic | | Std - manual | Optional - programmable, hydraulic | |
| Turret | | | | | | | |
| Turret type | | 12 station bi-directional, hydraulic clamping & indexing | | | | | |
| Tool disc type | | Polygonal disc with direct mounting turning tools | | | | | |
| Tool holders | mm | 2 axial holders for tool shank 32 x 32, 4 boring holders dia 60 | | | | | |
| Other details | | | | | | | |
| CNC system | | Fanuc OiTF / Siemens 828D | | | | | |
| Hyd tank capacity, pressure and flow rate | | 60 ltr, 40 kg/ cm2, 20 lpm | | | | | |
| Biggest steady rest | mm | Fenwick and Ravi, model: FRU B4, range 30-245 mm | | | | | |
| | | 1000 abc | 1500 abc | 2000 abc | 3000 abc | 4000 abc | 4500 abc |
| Basic machine envelope size L x B x H | mm | 4200 x 2750 x 2800 | 4700 x 2750 x 2800 | 5260 x 2750 x 2800 | 5200 x 2750 x 2800 | 6250 x 2750 x 2800 | 8000 x 2750 x 2800 |
| Basic machine weight (without chip conveyor) | kg | 9500 | 10000 | 11000 | 12500 | 14500 | 16000 |
| Total connected power | kVA | 60 kVA (for 22/ 26 kW), 75 kVA (for 30/ 37 kW); 415 V, 50 Hz: 3 phase | | | | | |
| Machine axis height from floor | mm | 1270 | | | | | |
| Coolant system | type | Rajmane coolant pump 1.5 kW, 250 ltr | | | | | |
| # VDI turret is used, the max turning diameter and length will reduce - consult technical dept | | | | | | | |

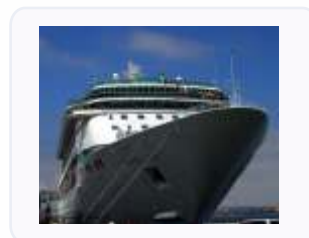
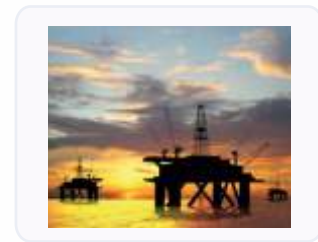
Technical Specifications - PL 600UR

| Specifications | Unit | PL500UR/ 1000 | PL600UR/ 1500 | PL600UR/ 2000 | PL600UR/ 3000 | PL600UR/ 4000 | PL600UR/ 4500 |
|--|--------|--|----------------------------|----------------------------|--|----------------------------|----------------------------|
| Capacity | | | | | | | |
| Maximum turning length | No | 1000 | 1500 | 2000 | 3000 | 4000 | 4500 |
| Swing over bed way cover - axis ht. 410/ 460 | mm | 720/ 800 | 660/ 760 | 650/ 750 | 640/ 740 | 630/ 730 | 610/ 710 |
| Max turning diameter on chuck - axis ht. 410/ 460 | mm | 630 | 630 | 630 | 630 | 630 | 610 |
| Max bar capacity | mm | 90 mm dia with appropriate hollow chuck & cylinder | | | | | |
| Distance from spindle face to turning tool face | mm | 130 - 1230 | 130 - 1730 | 150 - 1270 | 1280 - 3280 | 205 - 4305 | 210 - 4830 |
| Distance - Spindle face to tailstock center | mm | 140 - 1260 | 140 - 1760 | 160 - 2300 | 200 - 3300 | 230 - 4330 | 220 - 4880 |
| Distance - spindle face to tailstock center | mm | 1220 | 1720 | 2250 | 3300 | 4330 | 4880 |
| Max weight between centers | kg | 1000 | 1000 | 1000 | 1200 | 1200 | 1200 |
| Max between centers + 1 steady | kg | 1500 | 1500 | 1500 | 1700 | 1700 | 1700 |
| Bed | | | | | | | |
| Bed slant angle with respect to vertical | deg | 22,5 | | | | | |
| Type of guide ways | | Integral, rectangular induction hardened & ground, 1000 | | | | | |
| Overall width of guideways | | 1000 | | | | | |
| Axes drives | | | | | | | |
| Working stroke X axis | mm | 415 | 415 | 415 | 415 | 415 | 415 |
| Working stroke Z axis | mm | 1120 | 1600 | 2120 | 3100 | 4100 | 4620 |
| Servomotor static torque X & Z axes | Nm | Fanuc - 20, Siemens - 16 | | | Fanuc - 20, Siemens - 16 | | |
| Ball-screw diameter x pitch X & Z axes | mm | X - 50 x 10 Z = 50 x 10 | X - 50 x 10 Z = 50 x 10 | X - 50 x 10 Z = 50 x 15 | X - 50 x 10 Z = 63 x 20 | X - 50 x 10 Z = 63 x 20 | X - 50 x 10 Z = 63 x 20 |
| Rapid traverse rate X & Z axes | m/ min | 12 & 15 | 12 & 15 | 12 & 15 | 12 & 10 | 12 & 10 | 12 & 10 |
| Head stock | | | | | | | |
| | | Standard | | Option 1 - high speed | | Option 2 - high power | |
| Type of drive | | Poly V belt drive with in-built 2 speed gearbox in head-stock | | | | | |
| Spindle motor power - contin. / short term | | Fanuc/ Siemens 22/ 26 | | Fanuc/ Siemens 22/ 26 | | Fanuc 30, Siemens 28 | |
| Spindle motor power - contin./ short term | mm | 6 - 800, 25 - 1500 | | 6 - 800, 25 - 2500 | | 6 - 800, 25 - 1500 | |
| Spindle nose/ hole through spindle | mm | Standard A2-11/ 105; optional A2-15/ 105 with larger front bearings | | | | | |
| Tail stock | | | | | | | |
| Quill centre | | MT5 In-built revolving spindle, 3+2 bearings | | | MT5 In-built revolving spindle, 4+2 bearings | | |
| Quill diameter x stroke | mm | 160 x 125 | | | 160 x 125 | | |
| Quill actuation, Maximum quill thrust | kgf | Hydraulic, 800 | | | Hydraulic, 800 | | |
| Base clamping & linking to saddle | | Hydraulic, 800 | | | Hydraulic, 800 | | |
| Base clamping & linking to saddle | | Std - programmable, hydraulic | | | | | |
| Turret | | | | | | | |
| Turret type | | 12 station bi-directional, hydraulic clamping & motor indexing live turret-Duploatic/ Baruffaldi | | | | | |
| Tool disc type | | Axial disc with VDI 50 holes on pcd 400 & 460 | | | | | |
| Tool holders | mm | 6 radial & 2 axial tool holders for 32 x 32 tool shank; 4 boring holders dia 50, all VDI 50 | | | | | |
| Live tool motor power & output speed | | 5.5 kW, 3200 rpm | | | | | |
| Right angle & Coaxial Live drilling heads | | VDI 50 type, suitable for Er40 collets, clamp range 6 - 26 mm | | | | | |
| | mm | Fenwick and Ravi, model: FRU B4, range 30-245 mm | | | | | |
| Other details | | | | | | | |
| CNC system | | Fanuc OiTF/ Siemens 828 D | | | | | |
| Hyd tank capacity, pressure & flow rate | | 60 ltr, 40 kg/ cm ² 20 lpm | | | | | |
| Biggest steady rest | mm | Fenwick & Ravi, model: FRU 5.1, range 85 - 350 mm | | | | | |
| | kg | 1000 abc | 1500 abc | 2000 abc | 3000 abc | 4000 abc | 4500 abc |
| Total connected powerBasic machine envelope size L x B H (without chip conveyor, hyd power pack) | mm | 4200 x 2750 x 2800 | 4700 x 2750 x 2800 | 5200 x 2750 x 2800 | 6250 x 2750 x 2800 | 7300 x 2750 x 2800 | 8000 x 2750 x 2800 |
| Basic machine weight (without chip conveyor) | kg | 9500 | 10000 | 11000 | 12500 | 14500 | 16000 |
| Coolant system | type | Rajmane coolant pump 1.5 kW, 250 ltr | | | | | |
| # VDI turret is used, the max turning diameter and length will reduce from above values - consult technical dept | | | | | | | |

Technical Specifications - PL 600R - Y

| Specifications | Unit | PL600R - Y/ 1000 | PL600R-Y/ 1500 | PL600R - Y/ 2000 |
|---|------|--|----------------------------|----------------------------|
| Capacity | | | | |
| Maximum turning length | mm | 1000 | 1500 | 2000 |
| Swing over bed way cover - axis ht. 410/ 460 | mm | 760 | 760 | 760 |
| Max turning diameter on chuck - axis ht. 410/ 460 | mm | 500 | 500 | 500 |
| Max bar capacity | mm | 600 | 600 | 600 |
| Distance from spindle face to turning tool face | mm | 90 (with appropriate hollow chuck cylinder) | | |
| Distance - Spindle face to tailstock center | mm | 55 - 1235 | 55 - 1735 | 55 - 2235 |
| Distance - spindle face to tailstock center | mm | 1300 | 1800 | 2300 |
| Max weight between centers | kg | 600 | 600 | 600 |
| Max between centers + 1 steady | kg | 500 | 500 | 500 |
| Bed | | | | |
| Bed slant angle with respect to vertical | deg | 45 | | |
| Type of guide ways, overall width | mm | Integral, rectangular induction hardened & ground, 1050 | | |
| Overall width of guideways | | 1000 | | |
| Axes drives | | | | |
| Working stroke X axis | mm | 300 | 300 | 300 |
| Working stroke Z axis | mm | 1180 | 1680 | 2180 |
| Servomotor static torque X, Z & Y axes | Nm | Fanuc - 37, 27, 12; Siemens - 36, 27, 16 | | |
| Ball-screw diameter x pitch X & Z axes | mm | X - 50 x 10 Z = 50 x 10 | X - 50 x 10 Z = 50 x 10 | X - 50 x 10 Z = 50 x 15 |
| Ballscrew diameter Y axis | mm | 40 x 10 | 40 x 10 | 40 x 10 |
| | | 15 x 16 | 15 x 16 | 15 x 16 |
| Head stock | | Standard | | Option 1 - high speed |
| Spindle motor power - contin. / short term | | Std: Fanuc - 22/ 26 OR Siemens - 22/ 26; 1500 base rpm | | |
| Option | kW | Fanuc - 30/ 37 OR Siemens - 28/ 33, base rpm 1150 OR 1000 | | |
| Drive tupe, spindle speed range - Std | rpm | 2 speed inbuilt gear drive, ranges: 6 - 600 & 15 - 1500 | | |
| Spindle nose/ Hole through spindle | mm | Standard: A2-11/ 105 | | |
| Tail stock | | | | |
| Quill centre | | MT5 In-built revolving spindle, 3+2 bearings | | |
| Quill diameter x stroke, actuation | mm | 125 x 120, Hydraulic | | |
| Maximum quill thrust | kgf | 630 | | |
| Base clamping & linking to saddle | | Programmable, Hydraulic | | |
| Base clamping & linking to saddle | | Std - programmable, hydraulic | | |
| Turret | | | | |
| Turret type | | 12 station bi-directional, hydraulic clamping & motor indexing live turret-Duploatic/ Baruffaldi | | |
| Tool disc type | | Radial polygonal disc with 12 holes, BMT 75 tool clamp | | |
| Tool shank size & boring bar hole size | mm | 32 x 32, Dia 50 | | |
| Live tool motor power & output speed | kW | 5.5/ 7.5 & 3000 rpm | | |
| Live tool head collet size & capacity | mm | Er40, 6 to 26 mm | | |
| Max drilling capacity | mm | 22 mm in steel of UTS 50 kg/ mm2 | | |
| Other details | | | | |
| CNC system | | Fanuc OiTF/ Siemens 828 D | | |
| Hyd tank capacity, pressure & flow | | 60 ltr, 40 kg/ cm ² 20 lpm | | |
| Largest steady rest | mm | Fenwick & Ravi, model: FRU 5.1, range 85 - 350 mm | | |
| | kg | 1000 abc | 1500 abc | 2000 abc |
| Basic machine envelope size L x B x H | mm | 4660 x 2640 x 2800 | 5160 x 2640 x 2800 | 5660 x 2640 x 2800 |
| Basic machine weight | kg | 9500 | 10650 | 12000 |
| Total connected power | kVA | 50 kVA, 415 V, 50 Hz; 3 phase | | |
| Coolant system | type | Grunfos coolant pump 1.1 kW, 300 ltr | | |
| Machine axis height from floor | mm | 1275 | | |

Applications & Sectors



Associates in India

| | |
|---|---|
| Ahmedabad : Spinak Engineering , 9824033277 | Jamshedpur: IMTS, 9334804275 |
| Bengaluru: JR Rao & Co, 9844102252 | Kanpur: Response Engineers, 9838070906 |
| Bengaluru: Upnal CNC, 9341310391 | Kolhapur: Ganesh Technologies, 9822095229 |
| Chennai: PN Engineering - 9840096822 | Krishna: Mr K Sarath Kumar, 9908674736 |
| Coimbatore: Astra Engineers, 9626269998 | Nagpur: AK Enterprises, 9373124916 |
| Ernakulam: Prompt Machine Tools, 9846056446 | Nashik: Smart Services, 09823019761 |
| Hubballi: Nano Machine Tools, 9379276004 | Vishakhapatnam: C& I Systems, 9848127436 |
| Indore: Alif Industrial Sales, 9329842594 | Vapi: Deep Engineering, 9825610842 |
| Jalandhar: GRD Innovation Solutions, 9780153601 | Belgaum: VI Machine Tools, 9343833266 |

Manufacturing Plants in India

| | |
|--|-------------------------------------|
| Bangalore: (080) 39821100 Karnataka | Hosur: (04344) 400026 Tamil Nadu |
|--|-------------------------------------|

Tech Centres

| | | | |
|-------------------------------------|-------------------------------------|--------------------------------------|--|
| Pune: (020) 32524638 Maharashtra | Kolhapur: 9822095229 Maharashtra | Ahmedabad: (079) 26588529 Gujarat | Coimbatore: (0422) 262669 Tamilnadu |
|-------------------------------------|-------------------------------------|--------------------------------------|--|

International Network

| | | |
|------------|-------------|--------------|
| Bangladesh | Kuwait | Saudi Arabia |
| Bahrain | Netherlands | Sri Lanka |
| China | Oman | South Africa |
| France | Poland | Thailand |
| Germany | Qatar | Turkey |
| Iran | Russia | UAE |

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