



#### PRIMERO MACHINE TOOLS CORP.

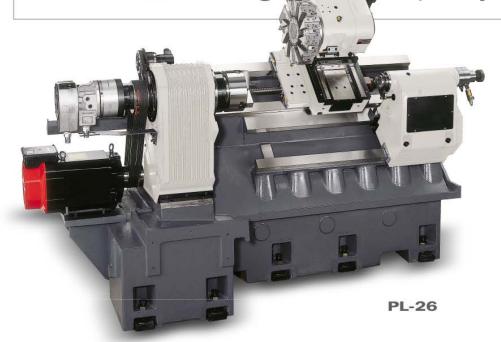
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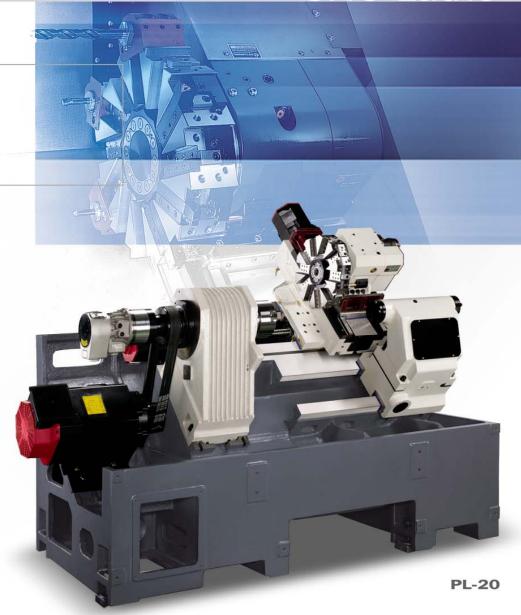
PRIMERO MACHINE TOOLS CORP.

Massive and Rigid Construction for Maximum, Turning Capacity



# HEAVY DUTY CONSTRUCTION THROUGHOUT

- All structural parts are manufactured from high-quality Meehanite cast iron and stress relieved for deformation-free results.
- The 45° slant bed construction assures maximum stability in heavy duty operations. It also allows for convenient chip disposal.
- Square ways on X and Z-axes are hardened and precision ground.
- Saddle and mating surfaces between slide and slideways are coated with wear-resistant media and then precision scraped.
- Exclusively designed saddle movement on Z-axis. Unlike the conventional movement method that employs the upper slideway as the reference slideway, this machine employs double inside slideways as reference slideways. The special design shortens the distance between the reference slideways and the cutting position thereby reducing torque generated by the cutting force. It not only upgrades the cutting rate by up to 20 M/min but also assures outstanding heavy cutting capabilities and maximum stability for the saddle slide movement.



Let PRIMERO CNC Lathes Show You How to Boost Your Turning Productivity.

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### **Outstanding** Features Assure **Greater** Value

## Designed and Engineered with Productivity and Accuracy in Mind

#### HYDRAULIC TURRET

- Choice of 8, 10 and 12 position turret.
- The hydraulic turret features the shortest route random tool selection.
- Bi-directional tool indexing for quick tool change.
- The hydraulic turret accommodates I.D. and O.D. tools for turning intricate parts.
- Heavy duty turret construction assures maximum rigidity and stability.



#### 3-JAW HYDRAULIC CHUCK

The 3-jaw hydraulic chuck is standard equipment and comes with hard and soft jaws.





#### COOLANT SYSTEM

The coolant system delivers high pressure coolant to flush chips and extend tool service life.



#### HYDRAULIC TAILSTOCK

The rigid tailstock is locked on the bed firmly. The tailstock quill movement is driven by hydraulic power for convenient operations.



#### HIGH QUALITY CONTROL COMPONENTS

- The control circuit in the electrical cabinet consists of high-quality electronic components, featuring maximum stability of control performance and long service life.
- The electrical cabinet is equipped with a heat exchanger to ensure constant temperature.
- Totally enclosed electrical cabinet provides dust proofing.







Syntec 900T



#### CNC CONTROL

- The CNC lathe is equipped with a FANUC CNC control as standard equipment.
- Other brands of CNC controls are available such as, Mitsubishi and Siemens.

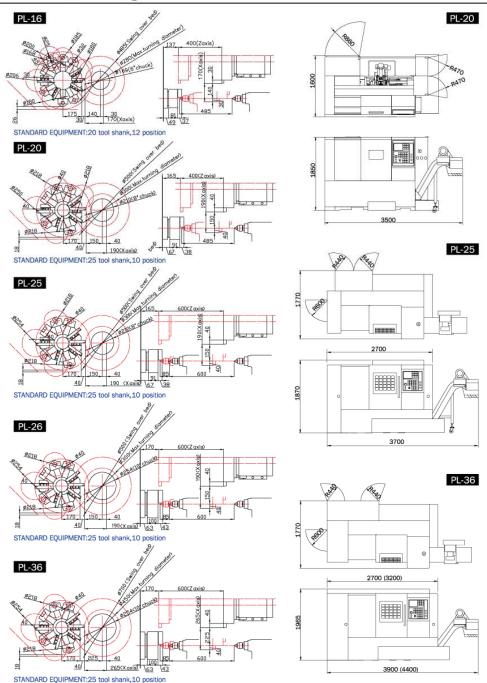
#### HIGH PRECISION SPINDLE

- The spindle is mounted with high precision class P4 angular contact ball bearings, providing outstanding radial and thrust loads.
- The spindle is precision machined from high quality alloy steel, hardened, precision ground and dynamically balanced, making it ideal for heavy duty machining.

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### PRIMERO

#### Tool Interference Diagram



#### Machine Specifications:

MODE	L	UNIT	PL-16	PL-20	PL-25	PL-26	PL-36
Travel	Max. Swing Over Bed	mm	450	500	500	500	700
	Max. Swing Over Cross Slide	mm	280	300	300	300	450
	Distance Between Centers	mm	485	485	685	685	685 (1085)
	Max. Turning Length	mm	400	400	600	600	600 (1000)
	Max. Turning Diameter	mm	280	300	300	300	450
	Max. Bar Diameter	mm	45	52 (68)	52 (68)	75 (92)	75 (92)
Spindle	Hyd. Chuck Diameter	Inch	6"	8"	8"	10"	10"
	Spindle Nose	Type	A2-5	A2-6	A2-6	A2-8	A2-8
	Bearing Type	Туре	7018	NN3020 (3024)	NN3020 (3024)	NN3026 (3028)	NN3026 (3028)
	Spindle Bearing Dia.	mm	90	100 (120)	100 (120)	130 (140)	130 (140)
	Spindle Motor	hp	20	25	25	35	35
	Spindle Speed	rpm	6000	4200	4200	3000	3000
Turret	Number of Tools	pcs	10 (12)	10	10	10	10 (12)
	Square Tool Shank Size	mm	25 (20)	25	25	25	25
	Round Tool Shank Size	mm	40 (32)	40	40	40	40
X-axis	Travel	mm	140+40	150+40	150+40	150+40	225+40
	Rapid Traverse Rate	m/min	20	20	20	20	20
	Servo Motor	Kw	2	2	2	2	2
Z-axis	Travel	mm	400	400	600	600	600 (1000)
	Rapid Traverse Rate	m/min	20	20	20	20	20
	Servo Motor	Kw	2	2	2	2	2
Tailstock	Function	Type	Programmable	Programmable	Programmable	Programmable	Programmable
	Quilt Diameter	mm	80	80	80	80	80
	Morse Slideway	Type	MT4	MT4	MT4	MT4	MT5
X-Axis Slideway		Type	Box Way	Box Way	Box Way	Box Way	Box Way
Y-Axis Slideway		Type	Box Way	Box Way	Box Way	Box Way	Box Way
Coolant Tank Capacity		Liter	180	180	200	200	200
Hydraulic Pump Motor		hp	1	1	2	2	2
Size	Floor Space	cm	195 x 175	195 x 175	265 x 175	265 x 175	265 x 175
	Machine Weight	kg	4200	4500	5200	5350	5600 (6000)

■ PL-16L, PL-20L are with Linear Ways.

Notes: Design and specifications are subject to change without prior notice.

#### **STANDARD EQUIPMENT:**

- Hvdraulic Turret
- Coolant System
- Chuck Air Blast
- Work Lamp
- Chuck Open/Close Confirmation
- Hydraulic Pressure Confirmation
- Chip Conveyor with Cart Single Point Orientation on Spindle
- Programmable Tailstock
- Spindle Rigid Tapping
- Heat Exchanger
- Tool Box with Tools
- I.D & O.D. Tool Holders
- Tool Shim & Splashing Block
- Face Tool Holder
- Operational Manual

#### **OPTIONAL EQUIPMENT:**

- Auto Door
- Over Load
- Oil Mist Collector
- Oil Mist Cooling System
- Coolant Through Ball Screws on 2 Axes
- Bar Feeder Interface
- Bar Feeder
- Auto Length Measuring Tool-Setter
- Hydraulic Power Unit Cooling System
- Air Conditional Heat Exchanger
- Cutting Fluid Cooling Device

- 20 kg High Pressure Coolant System
- Chuck High/Low Pressure Change
- Voltage Regulator
- Transformer
- Oil/Water Separator
- 2 Axes Linear Scale
- Parts Conveyor
- Servo Turret
- Wireless Edge Measuring System
- Power Turret + C-axis

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