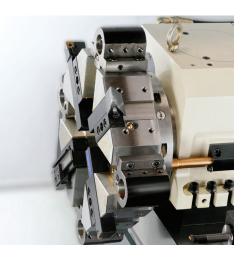


# PLG Series

Designed for high production, raising the bar on capability.

## GANG TOOL

## PLG Series



The PLG series lathe brings a new level of efficiency to high production turning processes. PLG series owes much of its success to the gang tooled design, which offers several important advantages:

- \* Reduce job changeover time. Complete changeover can be accomplished in mere minutes by swapping the tool plate.
- \* Improved tool change time, there's no time lost to indexing time like on turret based machines.
- \* Gang tooling eliminates a source of inaccuracy as the tool plate has no moving parts compared to a tool turret.

### **FEATURES**

### **Long Travels**

PLG-42L, PLG-52 and PLG-60 have extra long 12.6" X-axis travel which allows more tools to be placed on the gang tool table. Additionally, PLG-52 and PLG-60 have 22.05" of Z-axis travel to accommodate longer parts and even special tooling.

#### Accuracy

The PLG-series lathes are built to exacting quality standard. They should hold positional accuracy of 0.0001".

#### **Chuck Sizes**

PLG-42 and PLG-42L have A2-5 spindle nose which accepts 6" hydraulic chuck. While both PLG-52 and PLG-60 both use A2-6 spindle nose, PLG-52 uses 8" chuck and PLG-60 uses 10" chuck due to the difference in motor rating.

### **Bar Capacity**

1.65" (42mm), 2.05" (52mm), 3" (78mm) inch bar capacity

## Gang Tooling with Optional Turret

PLG series CNC lathes can be factory built with either gang tool table alone or with a combination of gang tool table and a turret. The turret is hydraulically driven and allows 8 more tools to be used on the same machine.

#### **Parts Catcher**

To reduce operator part handling, PLG series lathes can be ordered with parts catcher. The parts catcher accepts parts that have been parted off at the spindle and loads them onto a parts conveyor. The conveyor moves finished parts to the exterior of the machine.



## STANDARD EQUIPMENT

#### Power and Efficiency

- FANUC 0iMate cooltool
- FANUC servo motors
- FANUC Manual Guide 0i
- Hydraulic pump unit for chuck activation
- Automatic lubrication for sliding ways
- Rigid cast iron base

#### Tooling

- · Gang tool plate
- Removable sub-plate
- ID tool holders (3)
- OD/Cut off tool holders (2)
- Tool holder bushings (1 set)

#### **Time Saving Automation**

• Bar feed interface (FEDEK DH-65 series)

#### Productivity & Convenience

- High resolution LCD display
- Program transfer using PC card on front panel
- RS-232 serial interface for program uploads
- Halogen work light with adjustable arm
- 2 color LED signal light tower

#### Coolant, Chip & Thermal Management

- Programmable coolant system
- Coolant level indicator with temperature gauge
- Chip pan with pull out handle
- Dedicated heat exchanger for electronic cabinet

#### Safety, Service & Diagnostic

- Electrical cabinet locks
- Easy access service panels
- Toolkit and toolbox

## **OPTIONAL EQUIPMENT**

#### Workholding

- Spindle 5 degree indexing
- Hydraulic chuck:
  6" (PLG-42, PLG-42L, PLG-42XL),
  8" (PLG-52), 10" (PLG-60)
- Collet chuck: 5C/16C (PLG-42, PLG-42L), S20 (PLG-52), S30 (PLG-60)
- Tailstock with programmable quill (PLG-52, PLG-60)

#### Tooling

- 8-Station turret (PLG-42, PLG-42L, PLG-52, PLG-60)
- 3/8", 1/2" or 3/4" center height Hardinge-style tooling
- Live tool package

#### Productivity & Convenience

- Foot switch to activate collet or chuck opening/closing
- Parts catcher and parts conveyor

#### **Time Saving Automation**

- Magazine-style short bar feeder
- 12 ft bar feeder
- Bar extension
- Automatic door
- Gantry loader

#### Coolant, Chip & Thermal Management

- On-table coolant delivery
- Stainless steel high pressure coolant nozzles
- Chip conveyor (belt-type) and chip cart
- Mist collector
- Coolant chiller

#### Safety, Service & Diagnostic

- Front door interlock
- CE mark



Chip Conveyor



Bar Feeder





Short-Nose 16C Collet Chuck



3-Jaw Power Chuck



S20/S30 Collet Chuck



Mist Filter

## PLG series with automated loaders custom designed to fit customer's needs





## **SPECIFICATIONS**

	MODEL	PLG-42	PLG-	PLG-42L		PLG-52		PLG-60	
Capacity	Max. turning diameter	152 mm 6 in	ch 152 mm	6 inch	300mm	12 inch	380mm	15 inch	
	Swing over cross slide	112 mm 4.4	inch 112 mm	4.4 inch	160mm	6.3 inch	160mm	6.3 inch	
	Cross slide travel (X-axis)	230 mm 9.09	5 inch 305 mm	12 inch	320mm	12.60 inch	320mm	12.60 inch	
	Carriage travel (Z-axis)	300 mm 11.8	300 mm	11.81 inch	560mm	22.05 inch	560mm	22.05 inch	
Working Holding	Spindle bore	55 mm 2.16	55 inch 55 mm	2.165 inch	60mm	2.36 inch	85mm	3.35 inch	
	Max. bar capacity	42 mm 1.65	5 inch 42 mm	1.65 inch	52mm	2.05 inch	78mm	3 inch	
	Spindle nose	A2-5	A2-5		A2-6		A2-6		
	Chuck size	6 in	ch	6 inch		8 inch		10 inch	
Performance	Spindle motor	5.5 Kw 7.5	HP 5.5 Kw	7.5 HP	7.5 Kw	10 HP	11 Kw	15 HP	
	Spindle speed	100 ~ 6000 RPM	100 ~ 60	100 ~ 6000 RPM		100 ~ 4000 RPM		100 ~ 3500 RPM	
	Rapid traverse (X, Z-axes)	629 IPM	629 IPM	629 IPM		629 IPM		629 IPM	
Precision	Min. input unit	0.0001 inch or 0.001 mm		0.0001 inch or 0.001 mm		0.0001 inch or 0.001 mm		0.0001 inch or 0.001 mm	
Tooling	Max. OD tool shank	3/4 inch	3/4 inch	3/4 inch		1 inch		1 inch	
	Max. boring tool diameter	Ø1 inch	Ø1 inch	Ø1 inch		Ø1 1/4 inch		Ø1 1/4 inch	
Miscellaneous	Coolant pump motor	1/4 HP	1/4 HP	1/4 HP		1/4 HP		1/4 HP	
	Power requirement	220v 3ph	220v 3p	220v 3ph		220v 3ph		220v 3ph	
	Machine size (L x W x H)	2430x1270x1829 96x50x72 inch		2430x1575x1829 mm 96x62x72 inch		3200x1854x1854 mm 126x73x73 inch		3200x1854x1854 mm 126x73x73 inch	
	Machine net weight	1780 kg 392	4 lbs 1880 kg	4136 lbs	3000 kg	6613 lbs	3180 kg	7010 lbs	



#### **CUBIC MACHINERY, INC.**

13401 Benson Ave. Chino, CA. 91710

Tel 909 590-9995 Fax 909 590-9996

CubicMachinery.com

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