



THE PLG SERIES

Designed for high production, raising the bar on capability.

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:

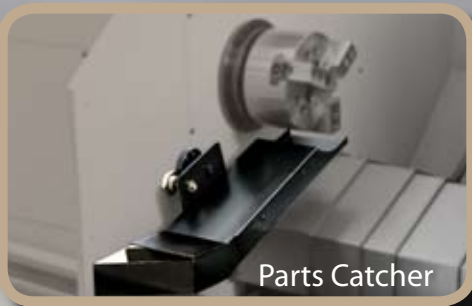
- * Reduce job changeover time. Complete changeover can be accomplished in mere minutes by swapping the tool plate.
- * Improved tool change time, there's no time lost to indexing time like on turret based machines.
- * Gang tooling eliminates a source of inaccuracy as the tool plate has no moving parts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

FANUC 0iMate-TC

The latest from the industry leader in CNC control. High resolution LCD display. PC card slot located next to display for convenient access. FANUC β series digital servo motors.



FANUC



Parts Catcher



Parts Conveyor

All machines have optional part catchers and conveyors.

Easy access through the large door allows integration of robots or automation.

PLG series lathes can be used either as barfed machine or a chucker.

GANG TOOL ADVANTAGE

Gang tooling is a cost-effective platform to build additional automation such as in-process gauging and unusual tooling arrangements such as grinding heads.

Use gang tooling for the fastest, most accurate tool changes. To expand capability, we offer additional tooling and workholding options:

- Turret and Gang tooling
- Turret and Tailstock

Use chuck or collet nose for work holding. We have what you need to take full advantage of the capabilities of the PLG range.



8-Station Turret



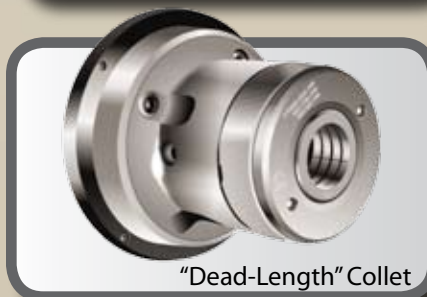
Tailstock



16C Collet



5C Collet



"Dead-Length" Collet



Chuck

EQUIPMENT | STANDARD AND OPTIONAL

● = Standard, ○ = Optional

POWER AND EFFICIENCY

	PLG-25	PLG-42	PLG-42L	PLG-42XL	PLG-52	PLG-60
FANUC 0iMate-TC	●	●	●	●	●	●
FANUC β series servo motors	●	●	●	●	●	●
Hydraulic pump unit for chuck/collet activation	●	●	●	●	●	●
Automatic lubrication for sliding ways	●	●	●	●	●	●
Rigid cast iron base	●	●	●	●	●	●

WORKHOLDING

Spindle 5 degree indexing	○	○	○	○	○	○
Hydraulic chuck (optional)	4"	6"	6"	6"	8"	10"
Collet nose	5C	5C/16C	5C/16C	5C/16C	S20	S30
Tailstock with programmable quill	N/A	N/A	N/A	○	○	○

TOOLING

Gang tool plate	●	●	●	●	●	●
Removable sub-plate	●	●	●	●	●	●
8-Station turret	N/A	○	○	○	○	○
ID tool holders (3)	●	●	●	●	●	●
OD/Cut off tool holders (2)	●	●	●	●	●	●
Tool holder bushings (1 set)	●	●	●	●	●	●
3/8", 1/2" or 3/4" center height Hardinge-style toolings	○	○	○	○	○	○
Live tool package	○	○	○	○	○	○

PRODUCTIVITY & CONVENIENCE

High resolution LCD display	●	●	●	●	●	●
Program transfer using PC card on front panel	●	●	●	●	●	●
RS-232 serial interface for program transfers	●	●	●	●	●	●
Foot switch to activate collet or chuck opening/closing	○	○	○	○	○	○
Halogen work light with adjustable arm	●	●	●	●	●	●
2 color LED signal light tower	●	●	●	●	●	●

TIME SAVING AUTOMATION

M-code controlled parts catcher and parts conveyor	○	○	○	○	○	○
Magazine-style short bar feeder	○	○	○	○	○	○
12 ft bar feeder	○	○	○	○	○	○
Bar extension	○	○	○	○	○	○
Bar feed interface (FEDEK DH-65 series)	●	●	●	●	●	●
Automatic door	○	○	○	○	○	○

COOLANT, CHIP & THERMAL MANAGEMENT

Programmable coolant system	●	●	●	●	●	●
On-table coolant delivery	○	○	○	○	○	○
Stainless steel high pressure coolant nozzles	○	○	○	○	○	○
Coolant level indicator with temperature gauge	●	●	●	●	●	●
Chip pan with pull out handle	●	●	●	●	●	●
Chip conveyor (belt-type) and chip cart	○	○	○	○	○	○
Dedicated heat exchanger for electrical cabinet	●	●	●	●	●	●

SAFETY, SERVICE & DIAGNOSTIC

Electrical cabinet locks	●	●	●	●	●	●
Front door interlock	○	○	○	○	○	○
Easy access service panels	●	●	●	●	●	●
Toolkit and toolbox	●	●	●	●	●	●
CE mark	○	○	○	○	○	○



TECHNICAL DATA | SPECIFICATION

CUBIC offers the PLG series in a complete range of configurations to fit your requirements.



CAPACITY	PLG-25	PLG-42	PLG-42L	PLG-42XL	PLG-52	PLG-60
Max. turning diameter	6" (152mm)	6" (152mm)	6" (152mm)	6" (152mm)	12" (300mm)	15" (380mm)
Swing over cross slide	4.4" (112mm)	4.4" (112mm)	4.4" (112mm)	6.3" (160mm)	6.3" (160mm)	6.3" (160mm)
Cross slide travel (X-axis)	9.05" (230mm)	9.05" (230mm)	12" (305mm)	12.60" (320mm)	12.60" (320mm)	12.60" (320mm)
Carriage travel (Z-axis)	11.81" (300mm)	11.81" (300mm)	11.81" (300mm)	22.05" (560mm)	22.05" (560mm)	22.05" (560mm)
WORK HOLDING						
Spindle bore	1.49" (38mm)	2.165" (55mm)	2.165" (55mm)	2.165" (55mm)	2.36" (60mm)	3.35" (85mm)
Max. bar capacity	1 1/16" (26mm)	1.65" (42mm)	1.65" (42mm)	1.65" (42mm)	2.05" (52mm)	2.95" (75mm)
Spindle nose	85mm	A2-5	A2-5	A2-5	A2-6	A2-6
Chuck size	4"	6"	6"	6"	8"	10"
PERFORMANCE						
Spindle motor	5 HP	7.5 HP	7.5 HP	7.5 HP	10 HP	15 HP
Spindle speed	100 ~ 6000 RPM	100 ~ 6000 RPM	100 ~ 6000 RPM	100 ~ 6000 RPM	100 ~ 4000 RPM	100 ~ 3500 RPM
Rapid traverse (X, Z-axes)	700 IPM	629 IPM	629 IPM	629 IPM	629 IPM	629 IPM
PRECISION						
Min. input unit	0.0001" or 0.001mm	0.0001" or 0.001mm	0.0001" or 0.001mm	0.0001" or 0.001mm	0.0001" or 0.001mm	0.0001" or 0.001mm
TOOLING						
Max. OD Tool Shank	3/4"	3/4"	3/4"	3/4"	3/4" or 1"	1"
Max. Boring Tool Diameter	Ø1" (25mm)	Ø1" (25mm)	Ø1" (25mm)	Ø1" (25mm)	Ø1 1/4" (32mm)	Ø1 1/4" (32mm)
MISCELLANEOUS						
Coolant pump motor	1/4 HP	1/4 HP	1/4 HP	1/4 HP	1/4 HP	1/4 HP
Power requirement	220v 3ph	220v 3ph	220v 3ph	220v 3ph	220v 3ph	220v 3ph
Machine size (L x W x H)	96" x 50" x 72"	96" x 50" x 72"	96" x 62" x 72"	126" x 73" x 73"	126" x 73" x 73"	126" x 73" x 73"
Machine net weight	3700 lbs (1680 kg)	3924 lbs (1780 kg)	4136 lbs (1880 kg)	6613 lbs (3000 kg)	6613 lbs (3000 kg)	7010 lbs (3180 kg)

* Design and specifications are subject to change without further notice.



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