



# PSG CNC T 110 LATHE



## SALIENT FEATURES

- Compact and aesthetically designed
- 2 Axis CNC System
- Anti-friction, Pre-loaded, high precision spindle bearings
- Slide motion on LM guide ways with precision ball screws
- AC Servo spindle
- AC Servo axis drives
- 8 Station turret
- Coolant system
- Centralised lubrication system
- Suitable to Train Students of Engineering / Polytechnic / Industrial Training Institute
- To Train Industry Workmen and also for small components production work

*Suitable for the  
Production of variety  
of Turned Parts*

***A machine for today's standard of precision, surface finish & production***

## PSG CNC T110 LATHE

### TECHNICAL DATA

#### CAPACITIES

Type of bed	Inclined 45° to vertical
Swing over bed covers	215 mm
Swing between centres	110 mm
Max. turning dia. of chucking job	110 mm
Max. boring length	90 mm
Max. turning length	210 mm
Chuck size	125 mm

#### SPINDLE

Spindle nose	A2 - 3
Hole through spindle	22 mm
Spindle bore taper	MT 4
Spindle speed	Infinitely variable
Spindle speed range	50 - 3000 rpm

#### AXES TRAVEL

Feed range X & Z axis	1-3750 mm/min
Rapid traverse rate X & Z axis	5000 mm / min
Threading pitch	0.25 - 16 mm
Cross slide stroke	80 mm

#### TURRET

No. of tools	8 (4&4 ID, OD tools)
Turret indexing positions	8
Turret indexing accuracy	± 6 seconds
Turret tool shank size	12 x 12 mm
Turret actuation	Electro mechanical
Max shank dia of boring tool	20 mm

#### TAILSTOCK

Tailstock spindle diameter	50 mm
Tailstock spindle stroke	60 mm
Tailstock spindle bore taper	MT 3

#### POWER

Power of spindle drive motor (cont. / 30 min)	3.7 / 5.5 kW
Power of coolant pump motor	0.1 kW

#### ACCURACIES

Positioning accuracy	± 0.010 mm
Repeatability	± 0.010 mm

#### OVERALL DIMENSIONS & WEIGHT

Floor area of machine	1900 x 1250 mm
Weight of machine (Approx.)	800 kg

### STANDARD ACCESSORIES

- Coolant system & Chip tray
- Machine cladding
- Built in work light
- Service tool kit
- Operation, Programming and spare parts manual

### OPTIONAL ACCESSORIES

- 125 mm dia, Hydraulic 3 jaw chuck & cylinder
- Hydraulic tailstock
- Collet chuck and collets
- Boring bar sockets / Morse taper sockets
- Voltage stabilizer

### CNC SYSTEM - FANUC / SIEMENS

#### STANDARD CONTROL FEATURES (FANUC)

- Built-in one touch tuning
- CNC via Embedded Ethernet / Memory card data server function
- Wrong operation prevention function
- CNC alarm guidance function
- Online ladder editing
- Self diagnostics
- Built-in calculator
- Manual data input
- Simultaneously controllable two axis
- Colour graphics
- Standard canned cycles
- Background programming
- Automatic chamfering and corner rounding
- Memory card editing
- Tool nose radius compensation
- Pitch error compensation
- Backlash error compensation
- Oriental spindle stop
- Constant surface speed
- 2D Simulation
- Tool life management
- Main menu screen for easy navigation
- Automatic data backup
- Power consumption monitor
- Machine Remote Diagnosis
- Cycle time reduction with smart overlap
- Smart rigid tapping
- Smart thermal control
- Smart spindle load meter
- Smart collision avoidance
- Smart spindle belt cut detection function
- Smart servo brake check function

Specifications are subject to improvements

Manufactured by PSG Industrial Institute, a manufacturer with 7 decades of tradition. This Lathe is robustly built. It is ideally suited for general engineering and training of students. After sales service of PSG is efficient and prompt.



Manufactured by

**PSG INDUSTRIAL INSTITUTE**

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