

D.E. PEDESTAL TYPE GRINDING MACHINE
MAKE : SI / MODEL : SI-DPG-50



TECHNICAL SPECIFICATION

Pedestal Stand	C.I. casting of high grade quality.
Stamping and cast rotor	Best quality
Motor winding	Specially insulated and ensure smooth running.
Motor	<ul style="list-style-type: none"> • HP : 1 • Kw : 0.75 • Ph : 3 • Hz : 50 • Volt : 415 • RPM : 2800 • Wheel: Center Distance : 400 mm • Center Height : 940mm with pedestal • Complete With Grinding Wheel Size: 200 mm x 25 mm x 19.05 mm (Original Bore 31.75 Mm)
Starter, Wheel Guard, and Standard Tool Rest Plate & Drill Grinding Attachment (19 mm).	
Pedestal body made up of heavy duty selected cast iron to ensure maximum strength.	
Machine provided with rotary switch.	
Construction of the machines are made sturdy and robust to offer vibration free performance.	

PILLAR DRILLING MACHINE MAKE : SI / MODEL : SI-PDM-12



TECHNICAL SPECIFICATION

Drilling Capacity	12 mm
Spindle speed	4 Speeds 500-2800 RPM
Spindle Taper	MT2
Spindle center to pillar	150 mm distance
Working surface of base	250 x 275 mm
Working surface of table	200 x 200 mm
Drive	0.5 Hp motor 3 phase AC with starter

❖ Accessories :

- Machine Vice 125 mm
- Drill sleeve MT 1-2
- Drill chuck 13mm capacity
- Drift

POWER SAW MACHINE
MAKE : SI / MODEL : SI-PSM-100



TECHNICAL SPECIFICATION

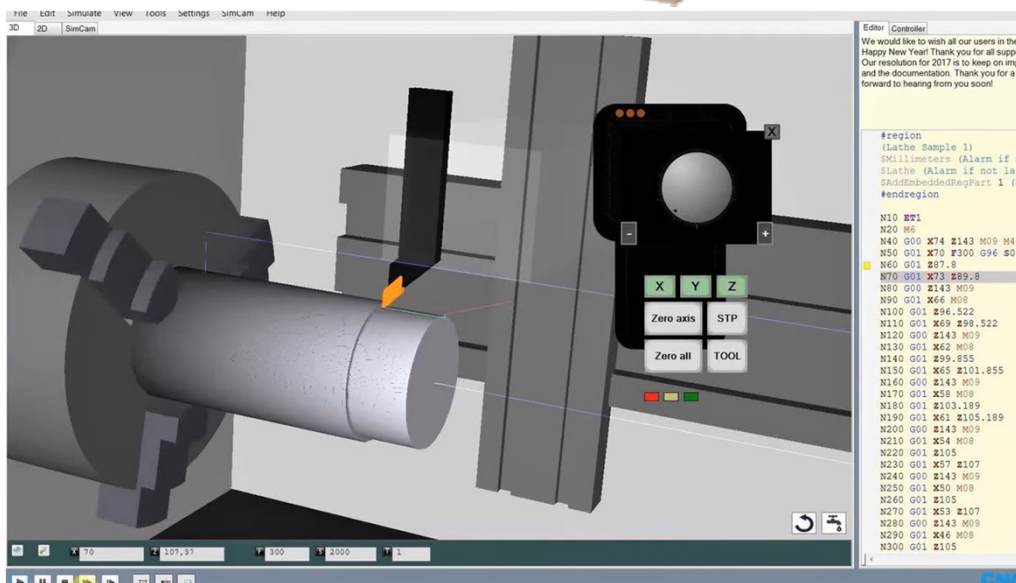
Power saw machine – Hydraulic feed system.

Stroke	135 mm
No of Stroke per Minute	100 to 125
Electric Motor	1 H. P, 3 Phases
RPM	1440
Blade Size	400 x 32 mm, (450 x 32 mm)
Capacity of Round bar	250 mm
Capacity of square bar	200 mm
Weight	450 Kg.

❖ **Accessories :**

Belts, Adjustable Feed control drive, Coolant Pump, Vice Machine, Belt Guard, Motor Pulley, Main motor, Motor Fixing Plate, Starter, Equipment will be supplied with necessary tools, carbon steel hacksaw blade and coolant.

CNC DUAL SIMULATOR



CNC DUAL SIMULATOR

TECHNICAL SPECIFICATION

❖ CNC DUAL SIMULATOR HARDWARE WITH CNCTRAIN SIMULATION SOFTWARE :

The purpose of a simulator is to provide the user with experience that is as close as possible to a real equipment. With this Dual CNC Simulator, we deliver this experience : programming, operating and simulating both CNC Lathe and CNC Mill with ISO/ Siemens programming on a single unit. The setup is compact and enable faculty and students to safely practice, test, operate and experience a CNC machine before executing it on the physical machine.

The hardware consists of :

Full industrial control panel with the electrics, electronics and power supply to operate a machine.

Three sets of motors and drives X, Y and Z axes mounted on the inside of the cabinet.

Spindle motor and drives.

Sensors to emulate auto - door and auto - loading device.

Count of operations.

Switch between 2-axis lathe and 3 - axis mill.

Switch between Siemens controls.

On screen controls for Siemens.

Virtual machine simulator with animated operations.

CNC editor and wizard to write programs.

Built-in CAD and CAM modules

Optional Online module with powerful features for instructional design and student learning modules.

Online e-learning courses across several manufacturing and automation Technologies .

Online assessments with faculty grading and student certification feature.

Faculty Development Workshops for instructional design.

One-day hands-on workshops for technical.

The User can connect a physical tutor keyboard Siemens control panels to operate MTAB CNC Simulator via CNC Train software. We have added sensors to emulate automatic door and automatic loading operations.

❖ CNC simulation software :

Virtual Training System for CNC Lathe and Mill. Software is an interactive 3D CNC simulator software. It supports 2 Axis CNC Late & 3 Axis Mill.

CNC DUAL SIMULATOR

TECHNICAL SPECIFICATION

❖ Features :

- CNC System with operator panel and Fanuc Control panel
- Simulation of turning and milling cutting operations.
- Dynamic rotation, zooming, panning and switch views.
- Programming using onscreen control.
- Supports standard G Code & M Code.
- G-code debugging.
- Capability to simulate canned cycles, macros and the inclusion of parameters.
- Supports import of CNC files generated by other CAM software.
- G-code parser with code validation.

❖ Control Panel :

- Modes JOG,MDI,EDIT,SINGLE BLOCK, AUTOMATIC,DRY RUN.
- STOP CYCLE,CYCLE START, EMERGENCY, etc.

❖ Work holding Devices and Tools :

- Work holding devices such as chuck, clamp, vice. Work piece such cube, cylinder, etc.
- Standard ISO Tooling library. Customization of tool parameters.
- Work offset & Tool length: Learn to take work offset & tool length offset by using touch-off, Probing, Edgefinder,etc.
- Preset zero point G54,G55,G56,G57 etc.

❖ SIMULATION :

- Electronic hand wheel available. Coolant On/off simulation. Cutting with chip removal simulation. Tool path simulation.