

CNC Simulator (CNC-SIM)



Features

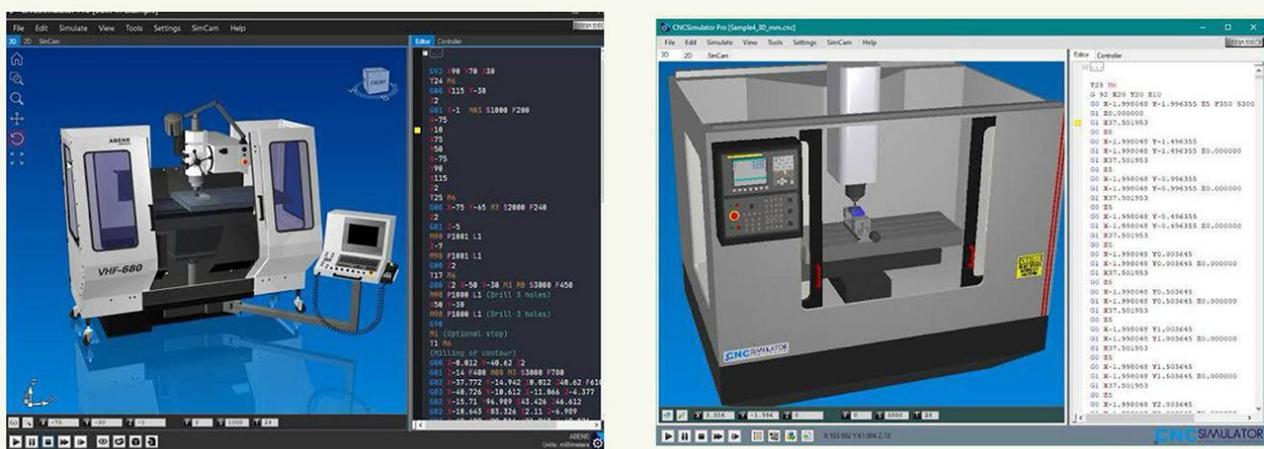
The simulator machine is of movable type through contact rollers. Dimensionally the simulator is comparable with the actual machine Dimension: L1200 mm × W600 mm × H1600 mm.

Hardware:

- PC based motherboard with Intel Core type. CPU with Win11 Operating System.
- Three colour machine status display lighting.
- 17inch touch screen for CNC with resolution of 1024×768 , display ratio of 4:3.
- 32inch LCD display for virtual machine with resolution 1920×1080 with of 1 kVA in built UPS.

CNC Machine Operation Panel:

- Industrial type machine control module.
- The simulator has feed override knob with feed selection 0 -120 %; spindle override knob with rpm selection 50 – 120 %, mode select key with basic minimum modes of: Reference, EDIT, AUTO, MDI, JOG, INC.
- hardware to control for axis, feed override, rpm override.
- The simulator has the capability of easy and quick configuration; USB interface for PC connectivity; spindle reversal, spindle stop, spindle forward, program lock, emergency stop, magazine change button, coolant on-off button, safety door open/close button.
- The simulator has axis movement buttons [X], [Z], positive [+], negative [-], [RAPID], Reset, Axis return, [REF.POINT], rapid speed adjustment button, feed speed adjustment button, spindle speed adjustment button, Optional block skip [B.D.T], Single block execution [S.B.K], Optional stop [M01], Start [CYCLE START], Stop [FEED HOLD], Physical manual handle (MPG), Manual handle rate button, Manual handle axis button, Foot Switch for Chuck open /Close in Turning machine.



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CNC Controller software

- 2 axis and 3 axis control software with the multiple controller of –
 - a) SINUMERIK 840D with Shop Furn and Shop Mill.
 - b) Syntec 22 TA/22 MA controls and there is 3D view for above control software.
- There is graphical simulation in 2D and 3D graphics with zooming and rotational facility; detailed error message about programming faults/errors.
- There is a combined hardware and software simulated environment capable of providing CNC machine training for operating skill in real CNC machines.
- The simulator is capable of simulating operation of the CNC controller in real machine environment, making it possible to program with (a) Hardware (b) Control software; operation and handling shall be similar to the real-life machine controller panel to ensure that a CNC program generated with the set – up (software and hardware) shall be able to run on the CNC machine.
- Offline programming station provide with interchangeable key-modules for the respective Controller family / Type.
- There is graphic simulation in 2D/3D graphics with zooming & Rotational facility.
- There is tool library of 1300 commonly used tools in industry.
- The functions viz. New, Modify, Delete is available; There is Measurement Function to measure the dimension precisely and have the concept of precision
- Configuration File provision is there to save as all the machine setting by one click, easy to share or import next time
- Import STL file provision is available to import user's STL file of workpiece, semifinished parts.
- Vice / Fixture: Vice options is there to meet the requirement of different types of material; Provision is available to import user's STL file of Fixture.
- Tool Setter: Provision is there to put the tool setter on table, vice and workpiece; with good tool for measuring tool length.
- Language of the simulator: English
- Main programs, subroutines, tool data register and work piece management is auto stored
- There is 2 Axis in Turning & 3 Axis in Milling; Linear, circular, helical and thread interpolation, Pocket, etc.
- License Type: Hardware Lock Perpetual

