CNC Operation Simulation Workstation

Interchangeable Multi-System

Fanuc 0i-TF

Dimension

- Panel stand dimension : L438(±10%) * W284(±10%) * H107(±10%) (mm) Can install in common classroom
- Touch screen 21.5" or above (Optional), resolution 1920*1080
- Operation System : Windows 10



• Physical manual handle, manual handle rate button, manual handle axis button



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Description	Specification
CNC Machine Simulation for Turning	 Based on 3D physical construction, the machine model of Horizontal Turning-Single spindle and turret including: chuck, jaw, turret, tool, tailstock, live center Rapid : X axis 20 m/min, Z axis 24 m/min Max Feedrate: X axis 6 m/min, Z axis 8 m/min Simulate whole CNC machine with physical machine controlling panel and dynamic interactive simulation Collision detection function: tool and material. If the tool isn't rotating, the contact between the tool and the material will be considered a collision Simulation Speed Adjustment: 50%, 100%, 160%, 250%, 500% Audio on/off, system volume adjustment Workpiece material setting, Diameter, Max Diameter = 250mm Length, Max Length = 450mm Turning tool setting: Diamond (80°, 55°, 35°), Triangle (60°), Thread, Groove, Round, Drill, Trigon, Radius corner groove, Center drill, Screw tap, End Mill Turret setting: Tool install, modify, delete Standard view : Top (XY), Front (ZX), Side, (YZ), 3-Dimension (ISO) Common zoom view: Material view, Table view, Machine view Free operation view: Shift, Rotate, Zoom in/out Simulated design including coolant fluid, cutting the workpiece until chips spattering, audio (tool movement, cutting sound effect, spindle rotation, alarm Workpiece linear measurement function: diameter, thickness, length Quick reset to Factory Setting CNC Program import/export function
CNC Turning Program Simulation	 G Code function (1) Interpolation: G00, G01, G02, G03 (2) Dwell: G04 (3) Plane Selection: G17, G18, G19 (4) Tool Radius Compensation: G40, G41, G42 (5) Workpiece dimension: Input in inch/mm: G20, G21 (6) Return to reference position: G28, G30 (7) Feed per minute/ revolution: G98, G99, Constant surface speed control: G96, G97 (8) Workpiece Coordinate: G54, G55, G56, G57, G58, G59 (9) Support G01 axis right angle of auto Chamfering/ corner R (10) Cutting cycle G71, G72, G73, G74, G75, G76, G90, G92, G94 (11) Canned cycle for drilling & tapping: G80, G83, G84, G85 (12) Coordinate system setting or max spindle speed clamp: G50 (13) Chamfer command settings using comma (parameter) (14) Omitting the use of decimal point of address (parameter) (15) Using G Code group setting (parameter) M Code auxiliary function (M00)Program stop (M03)Spindle forward (M08)Coolant fluid on (M98) Subprogram call (M01)Optional stop (M04)Spindle reversal (M09)Coolant fluid off (M99) Subprogram end (M02)Program end (M05)Spindle stop