



CNC Lathe Trainer - Slant Bed



CNC Lathe Trainer with Servo Drives



CNC Lathe Trainer



CNC Mill Trainer



CNC Mill Trainer



CNC TRAINERS



1800 (A) CNC Lathe Trainer

CONTROLLER

Type of Control System	: PLC based System
Main Spindle Drive	: AC Motor with VFD
Z and X Drives	: Stepper Drive with Ramp function
Input to Stepper	: Optically Isolated
Motor Drive	: TTL Compatible
Run Speed Control	: Computer controlled with Software
Interpolation	: Linear / Circular / Parabolic
Cycles Used	: G, M, S, T, F, I, K, M, F
Cycles	: Circular Interpolation / Canned
Threading	: Straight / Taper
Power Devices	: Short Circuit and over Temperature protected

Real Time Tool Path Simulation	: Provided
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MACHINE DETAILS

Center Height	: 100mm
Swing Over Carriage	: 80mm
Distance between Centre	: 300mm
Longitudinal Travel	: 310mm
Weight	: 800kg
Dimension in mm	: 1300 x 800 x 1400
Rapid Travel	: 700 mm/min
Resolution Z Axis	: 5 micron
Resolution X Axis	: 5 micron (Dia.)
Automatic	: Provided

AXIS TRAVEL	X Axis	: 80mm
	Z Axis	: 310mm



SPINDLE

Spindle Speed	: Continuous Variable
Spindle Power	: 2 HP
Inside Taper	: MT3
Speed Range	: 50 to 3000 RPM

1800 (B) CNC Lathe Trainer - Slant Bed

CONTROLLER

Type of control system	: PLC based system
Axis motor and drive	: Servo motor & drive with feedback
Input to Servo	: Optically Isolated
Motor Drive	: TTL compatible
Interpolation	: Linear / Circular / Parabolic
Cycles Used	: G, M, S, T, F, I, K, M, F
Cycles	: Circular Interpolation / Canned
Threading	: Straight / Taper
Power Devices	: Short Circuit and over Temperature protected, Single phase protection

Real Time ToolPath Simulation	: Provided
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MACHINE DETAILS

Center Height	: 100mm
Swing Over Carriage	: 80mm
Distance between Centre	: 825mm
Weight	: 700kg
Dimension in mm	: 1250 x 900 x 1500
Rapid Travel	: 700 mm/min
Resolution Z Axis	: 5 micron
Resolution X Axis	: 5 micron (Dia.)
Automatic Lubrication	: Provided
Tool Changer	: Automatic - 8 station



SPINDLE

Spindle Speed	: Continuous Variable
Spindle Power	: 2 HP
Inside Taper	: MT3
Speed Range	: 100 to 3000 RPM

AXIS TRAVEL	X Axis	: 100mm
	Z Axis	: 300mm

1801 CNC Lathe Trainer with Servo Drives

CONTROLLER

Type of Control System	: PLC based system
Main Spindle Drive	: AC Motor with VFD
Z and X Drives	: Stepper drive with RAMP function
Input to Stepper Motor	: Optically Isolated
Motor Drive	: TTL Compatible
Run Speed Control	: Computer controlled through software
Interpolation	: Linear / Circular / Parabolic
Cycles Used	: G, M, S, T, F, I, K, M, F
Cycles	: Circular Interpolation /Canned
Threading	: Straight / Taper
Power Devices	: Short Circuit and over Temperature protected
Real time tool path simulator	: Provided

MACHINE DETAILS

Center Height	: 100 mm
Swing Over Carriage	: 80 mm
Distance between Center	: 250 mm
Longitudinal Travel	: 250 mm
Weight	: 350 Kg
Dimension	: 1100 x 750 x 1700
Rapid Travel	: 500 mm/min
Resolution X & Z Axis	: 10 micron
Dt. Motor Power	: 40V - 4A
Lubrication	: Manual



SPINDLE

Spindle Speed	: Continuous Variable
Spindle Power	: 2 HP
Inside Taper	: MT3
Speed Range	: 50 to 3000 RPM

1802 CNC Lathe Trainer

CONTROLLER

Type of Control System	: PLC based system
Main Spindle Drive	: AC Motor with VFD
Z and X Drives	: Stepper drive with RAMP function
Input to Stepper Motor	: Optically Isolated
Motor Drive	: TTL Compatible
Run Speed Control	: Computer controlled through software
Interpolation	: Linear / Circular / Parabolic
Cycles Used	: G, M, S, T, F, I, K, M, F
Cycles	: Circular Interpolation / Canned
Threading	: Straight / Taper
Power Devices	: Short Circuit and over Temperature protected
Real time tool path simulator	: Provided

MACHINE DETAILS

Center Height	: 100 mm
Swing Over Carriage	: 80 mm
Distance between Center	: 250 mm
Longitudinal Travel	: 250 mm
Weight	: 350 Kg
Dimension	: 1100 x 750 x 1700
Rapid Travel	: 500 mm/min
Resolution X & Z Axis	: 10 micron
Dt. Motor Power	: 40V - 4A
Lubrication	: Manual



SPINDLE

Spindle Speed	: Continuous Variable
Spindle Power	: 1.5 HP
Inside Taper	: MT3
Speed Range	: 100 to 3000 RPM

1803 CNC Lathe Trainer

CONTROLLER

Controller	: SIEMENS / FANUC
Main Spindle Drive	: AC Motor with VFD
Z and X Drives	: Servo Drive with Servo Motor
Input to Servo	: Optically Isolated
Motor Drive	: Smart & Intelligent
Run Speed Control	: Through Controller
Interpolation	: Linear / Circular / Parabolic
Cycles Used	: G, M, S, T, F, I, K, M, F Cycles Circular Interpolation / Canned
Threading	: Straight / Taper
Power Devices	: Short Circuit and over Temperature protected, Single phase protection
Real Time ToolPath Simulation	: Provided

MACHINE DETAILS

Center Height	: 150mm
Swing Over Carriage	: 125mm
Distance between Centre	: 825mm
Weight	: 1100kg
Dimension in mm	: 2000 x 1200 x 1700
Rapid Travel	: 5000 mm/min
Resolution Z Axis	: 1 micron
Resolution X Axis	: 1 micron (Dia.)
Automatic Lubrication	: Provided
Tool Changer	: Automatic - 4 station

SPINDLE

Spindle Speed	: Continuous Variable
Spindle Power	: 3 HP
Inside Taper	: MT4
Speed Range	: 50 to 1800 RPM

AXIS TRAVEL	X Axis	: 120mm
	Z Axis	: 800mm

1804 CNC Mill Trainer

CONTROLLER

Controller	: SIEMENS 802D
Main Spindle Drive	: D. C. Thyristor Drive, Inbuilt Safety, 1.5 HP
X, Y and Z axes drive	: SIEMENS servo motors and Drives
Input to Stepper	: Optically Isolated,
Motor Drive TTL compatible	
Interpolation	: Linear, Circular Parabolic interpolation, Slot / Pocket Milling
Code Used	: G, M, S, T, F, I, J, K, M, F
Cycles	: Circular Interpolation, Mirror, Pocket Milling Cycle
Pocket & Helical Milling	: Provided with Std Codes

TABLE

Length x Width	: 450 x 175 (approx.)
Clamping Area	: 350 x 130 (approx.)
T Slots	: 10 mm slot width.

MACHINE DETAILS

Resolution	: 5 micron
Tool Change	: Automatic, 8 Station
Rapid Travel	: 5000 mm / min
Weight in kg	: 750 kg.
Dimension in mm	: 850 x 850 x 1550 mm
Automatic Lubrication	: Provided
Repeatability	: 10 micron



SPINDLE

Spindle Speed	: Continuous Variable
Spindle Power	: 1.5HP
Inside Taper	: ISO 30
Speed Range	: 100 to 4000 RPM

AXIS TRAVEL	Longitudinal Traverse	: 250 mm
	Cross Traverse	: 175 mm
	Vertical Traverse	: 250 mm

1805 CNC Mill Trainer

CONTROLLER

Type of Control System	: PLC based system Under collaboration from Tudor, UK
Main Spindle Drive	: D. C. Thyristor Drive, Inbuilt Safety
X, Y and Z axis drive	: Stepper Motor Drive Servo Drive Optional
Input to Stepper	: Optically Isolated, Motor Drive TTL compatible
Run speed Control	: Computer Control with Software
Interpolation	: Linear, Circular Parabolic interpolation
Code Used	: G, M, S, T, F, I, J, K, M, F
Cycles	: Circular Interpolation, Mirror, Pocket Milling Cycle
Pocket & Helical Milling	: Provided with Std Codes
Real Time Tool Path	: With online 3D simulation

TABLE

Length x Width	: 600 x 225 (approx.)
Clamping Area	: 450 x 160 (approx.)
T Slots	: 10 mm slot width.

MACHINE DETAILS

Resolution	: 5 micron (Standard),
Distance From Spindle	: 25 - 225 mm (Nose to Table Top)
Centerline to Column	: 170 mm
Rapid Travel	: 700 mm / min
Weight in kg	: 950 kg.
Dimension in mm	: 1200 x 1200 x 1900



SPINDLE

Spindle Speed	: Continuous Variable
Spindle Power	: 1.5 HP
Inside Taper	: ISO 30
Speed Range	: 300 to 3000 RPM

1806 CNC Mill Trainer

CONTROLLER

Type of Control System	: PLC based system
Main Spindle Drive	: D. C. Thyristor Drive, Inbuilt Safety
X, Y and Z axis drive	: Stepper Motor Drive
Input to Stepper	: Optically Isolated,
Motor Drive	: TTL compatible
Run speed Control	: Computer Control with Software
Interpolation	: Linear, Circular, Parabolic interpolation
Code Used	: G, M, S, T, F, I, J, K, M, F
Cycles	: Circular Interpolation, Mirror, Pocket Milling Cycle
Pocket & Helical Milling	: Provided
Real Time Tool Path	: Provided simulation

TABLE

Length x Width	: 450 x 175
Clamping Area	: 360 x 130
T Slots	: 10 mm slot width.

MACHINE DETAILS

Resolution	: 5 micron
Distance From Spindle	: 700 mm/min

Tool Change	: Quick Change, Manual
Centerline to Column	: 140 mm
Weight in kg	: 550 kg.
Dimension in mm	: 850 x 800 x 1630

SPINDLE

• Spindle Speed	: Continuous Variable	• Inside Taper	: ISO 30
• Spindle Power	: 1 HP	• Speed Range	: 300 to 3000 RPM