



### 29901A - CNC Lathe Trainer

#### CONTROLLER

Type of Control System	:	PLC based System
Main Spindle Drive	:	AC Motor with VFD
Z and X Drives	:	Steppe, Drive with Ramp function
Input to Stopper	:	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	:	Short / Taper
Power Devices	:	Short Circuit and over Temperature Protected
Real Time Tool Path Simulation	:	Provided

#### MACHINE DETAILS

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

#### SPI NDLE

Spindle speed	:	Continuous variable
Spindle power	:	2 HP
Inside taper	:	Mt3
Speed range	:	50 to 3000 RPM

Note: Specifications are subject to change.

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### 29901B - CNC Lathe Trainer - Slant Bed

<b>CONTROLLER</b>	
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 Tool Path Simulation	: Provided
<b>MACHINE DETAILS</b>	
Center Height	: 100mm
Swing Over Carriage	: 80mm
Distance between Center	: 825mm
Weight	: 700kg
Dimension in mm	: 1250(900 x 1500)
Rapid Travel	: 700mm/min
Resolution Z Axis	: 5 micron
Resolution X Axis	: 5 micron (Dia.)
Automatic	: Provided
Tool changer	: Automatic - 8 station
<b>SPI NDLE</b>	
Spindle speed	: Continuous variable
Spindle power	: 2 HP
Inside taper	: Mt3
Speed range	: 100 to 3000 RPM
<b>AXIS</b>	
X Axis	: 100mm
Z Axis	: 300mm

Note: Specifications are subject to change.

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**29903 - 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	:	Steppe, Drive with RAMP function
Input to Stopper Motor	:	Optically Isolated
Motor Drive	:	TTL Compatible
Run Speed Control	:	Computer controlled thought 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

**MACHINE DETAILS**

Center Height	:	100mm
Swing Over Carriage	:	80mm
Distance between Center	:	250mm
Longitudinal Travel	:	250mm
Weight	:	350kg
Dimension in mm	:	1100(750 x 1700)
Rapid Travel	:	500mm/min
Resolution Z Axis	:	10 micron
Resolution X Axis	:	10 micron (Dia.)
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

Note: Specifications are subject to change.

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### 29904 - CNC Lathe Trainer

#### CONTROLLER

Type of Control System	:	PLC based System
Main Spindle Drive	:	AC Motor with VFD
Z and X Drives	:	Steppe, Drive with RAMP function
Input to Stopper Motor	:	Optically Isolated
Motor Drive	:	TTL Compatible
Run Speed Control	:	Computer controlled thought 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

#### MACHINE DETAILS

Center Height	:	100mm
Swing Over Carriage	:	80mm
Distance between Center	:	250mm
Longitudinal Travel	:	250mm
Weight	:	350kg
Dimension in mm	:	1100(750 x 1700)
Rapid Travel	:	500mm/min
Resolution Z Axis	:	10 micron
Resolution X Axis	:	10 micron (Dia.)
Dt motor power	:	40V - 4A
Lubrication	:	Manual

#### SPINDLE

Spindle speed	:	Continuous variable
Spindle power	:	1.5 HP
Inside taper	:	MT3
Speed range	:	50 to 3000 RPM

Note: Specifications are subject to change.

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### 29905 - CNC Lathe Trainer

#### CONTROLLER

Controller	:	Siemens / FAUNC
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	:	Computer controlled thought 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 Single Phase Protection
Real Time Tool Path Simulation	:	Provided

#### MACHINE DETAILS

Center Height	:	150mm
Swing Over Carriage	:	125mm
Distance between Center	:	825mm
Weight	:	1100kg
Dimension in mm	:	2000(1200 x 1700)
Rapid Travel	:	5000mm/min
Resolution Z Axis	:	1 micron
Resolution X Axis	:	1 micron (Dia.)
Automatic Lubrication	:	Provided
Tool changer	:	Automatic - 8 station

#### SPINDLE

Spindle speed	:	Continuous variable
Spindle power	:	3 HP
Inside taper	:	MT4
Speed range	:	50 to 1800 RPM

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### 29906 - CNC Mill Trainer

<b>CONTROLLER</b>	
Controller	: Siemens / 802D
Main Spindle Drive	: DC Thyristor Drive, Inbuilt Safety, 1.5HP
X, Y and Z Drives	: Siemens Servo Motor and Drive
Input to Servo	: Optically Isolated
Motor Drive	: TTL Compatible
Interpolation	: Linear / Circular / Parabolic Interpolation, Slot / Pocket Milling
Cycles Used	: G, M, S, T, F, I, K, M, F
Cycles	: Circular Interpolation Mirror, Pocket Milling Cycle
Pocket & Helical Milling	: Provided with std Codes
<b>MACHINE DETAILS</b>	
Resolution	: 5 micron
Tool changer	: Automatic - 8 station
Rapid Travel	: 5000mm/min
Weight	: 750kg
Swing Over Carriage	: 125mm
Distance between Center	: 825mm
Dimension in mm	: 850(850 x 1550)
Automatic Lubrication	: Provided
Repeatability	: 10 micron
<b>TABLE</b>	
Length x Weight	: 450 x 175 (approx)
Cleaning Area	: 350 x 130 (approx)
T Slots	: 10 mm Slot std Codes
<b>SPI NDLE</b>	
Spindle speed	: Continuous variable
Spindle power	: 1.5 HP
Inside taper	: ISO 30
Speed range	: 100 to 4000 RPM
<b>Axis Travel</b>	
Longitudinal Travers	: 250mm
Cross Traverse	: 175mm
Vertical Traverse	: 250mm

Note: Specifications are subject to change.

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#### CONTROLLER

Type of Control System	:	PLC based system Undo collaboration from Tudor. UK
Main Spindle Drive	:	DC Thyristor Drive, Inbuilt Safety, 1.5HP
X, Y and Z Drives	:	Stepper Motor Dove Servo Drive Optional
Input to Servo	:	Optically Isolated, Motor Drive TTL compatible
Run speed Control	:	Computer Control with Software
Interpolation	:	Linear / Circular / Parabolic Interpolation, Slot / Pocket Milling
Cycles Used	:	G, M, S, T, F, I, 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

#### MACHINE DETAILS

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

#### TABLE

Length x Weight	:	600 x 225 (approx)
Cleaning Area	:	450 x 160 (approx)
T Slots	:	10 mm Slot std Codes

#### SPINDLE

Spindle speed	:	Continuous variable
Spindle power	:	1.5 HP
Inside taper	:	ISO 30
Speed range	:	300 to 3000 RPM

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### 29908 - CNC Mill Trainer

#### CONTROLLER

Type of Control System	:	PLC based system
Main Spindle Drive	:	DC Thyristor Drive, Inbuilt Safety
X, Y and Z Drives	:	Stepper Motor Drive
Input to Servo	:	Optically Isolated
Motor Drive	:	TTL Compatible
Run speed Control	:	Computer Control with Software
Interpolation	:	Linear / Circular / Parabolic Interpolation
Cycles Used	:	G, M, S, T, F, I, K, M, F
Cycles	:	Circular Interpolation Mirror, Pocket Milling Cycle
Pocket & Helical Milling	:	Provided
Real Time Tool Path	:	Provided Simulation

#### MACHINE DETAILS

Resolution	:	5 micron
Distance From Spindle	:	700 mm (Nose to Table Top)
Center Line to Column	:	140 mm
Weight	:	550kg
Dimension in mm	:	850(850 x 1630)

#### TABLE

Length x Weight	:	450 x 175 (approx)
Cleaning Area	:	350 x 130 (approx)
T Slots	:	10 mm Slot std Width

#### SPI NDLE

Spindle speed	:	Continuous variable
Spindle power	:	1 HP
Inside taper	:	ISO 30
Speed range	:	300 to 3000 RPM

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