



ProTurn 9000 CNC Turning Center

The ProTurn 9000 is a versatile PC-based CNC turning center that enables you to deliver robust instruction in computer numerical control and advanced manufacturing.

The ProTurn 9000 requires no assembly, arriving at your facility ready to run on and connected via an Ethernet port on a standard PC. The system uses powerful AC drive motors on the spindle and both axes, for part cutting in a variety of materials. Like larger industrial machines, the ProTurn 9000 uses EIA, ISO, and FANUC™-compatible G&M code programs.

With available supplements like CNCBase® control software, CNCMotion® full 3-D virtual simulation software, FANUC™ control software, and LearnMate® e-learning curriculum specific to the machine, the ProTurn 9000 is the perfect training solution, with exceptional ease-of-use, safety features and reliability.



Standard Features

- Ethernet-based control
- Powerful AC spindle motor
- AC motors on both axes
- Full enclosure with automatic safety door lock
- Automatic diagnostics and power cut off protection
- PC-based CNC software
- Coolant-ready
- Jog pendant ready
- Robotic integration-ready with 6 inputs, 6 outputs
- No assembly required

Included Accessories

- Tailstock
- 4" 3-jaw chuck
- 4-station automatic tool turret
- One shot lubrication system
- Internal work light

Turning center accessory package:

- (1) Chuck key
- (1) Chuck jaw set
- (2) Dead centers
- (1) Spanner wrench
- (1) 4-pc. Allen wrench set
- (1) 4-pc. Open-end wrench set
- (1) 2M Ethernet cable
- (1) Storage box
- Misc. accessories

Specifications

Axis Travel

X Axis, max	90 mm	3.54"
Z Axis	305 mm	12.00"

Work Area

Swing over bed	250 mm	9.87"
Swing over cross slide	150 mm	5.90"
Max distance between centers	450 mm	17.75"
Bed width	135 mm	5.33"

Spindle

Motor Type	Brushless	
Motor power	1.34 hp, 1000 w	
Spindle speed	100 - 3000 RPM	
Spindle taper	MT3	

Tooling

Automatic tool position	4	
Tool post angle	360 deg.	
Tailstock taper	MT2	
Tailstock travel	50 mm	1.97"

Accuracy

Position accuracy	0.015 mm	0.0006"
Repeatability	0.010 mm	0.0004"

Dimensions

Machine size

Width	1460 mm	57.50"
Depth	760 mm	30.00"
Height	1500 mm	59.00"

Shipping size

Width	1625 mm	64.00"
Depth	1150 mm	45.25"
Height	1790 mm	70.50"

Weight (approximate)

Machine weight	490 Kg	1080 lbs
Shipping weight	570 Kg	1257 lbs

Axis Drive Motors

Axis motor type	AC servo	
X axis	400w	
Z axis	400w	
Rapid feed rate	5000 mm/min 197 ipm	
Feed rate	2540 mm/min 100 ipm	

Air Supply*

*Only required for optional pneumatic accessories:
90 psi (620 kPa)
1/4" NPT female connection provided

Control Software

EIA RS274-D standard G & M code compatible
FANUC® compatible
CAD/CAM compatible
Advanced NC code editing
Real-time or simulated graphic tool path verification

Power Requirements

United States

115 VAC (+5%/-10%) 60 Hz, 20A

International

230 VAC (+5%/-10%) 50 Hz, 8A

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Options and Accessories

Coolant System



Machine-mounted Computer / Monitor stand



TiN-coated Cutter, 7-pc set, 10mm x 10mm



Jog Pendant Handwheel



MT2 Tailstock Chuck



125mm 4-jaw Chuck



Air Chuck



Rolling Center, Tailstock MT2



Ordering Information

Hardware

ProTurn 9000 - 110 VAC 00-5501-0110

ProTurn 9000 - 220 VAC 00-5501-0220

Starter Bundle, 110/220 VAC, Imp/Met

HW-PT9K-STRT

Includes:

- CNC ProTurn 9000
- 10 x 10mm Cutter Tool Holder
- TiN-coated Tip
- Drill Chuck for Tailstock
- Rolling Center

Advanced Bundle, 110/220 VAC, Imp/Met

HW-PT9K-ADVN

Includes all items in the Starter Bundle, plus:

- 4-jaw Chuck
- Handwheel - Manual Control
- Coolant System
- Computer / Monitor Stand

Software

CNCMotion® Simulation Software 63-6789-1000

Curriculum

CNC Turning, LearnMate course, Lab/Virtual 88-3148-0000

Accessories

Machine-Mounted CPU / Monitor Stand 10-1105-5000

Tailstock Chuck MT2 Taper 1/2" (13mm) 10-1105-7000

4-Jaw Chuck with 4.9" (125mm) Flange 10-1105-9000

Steady Rest 10-1106-4000

Follow Rest 10-1106-5000

Rolling Center, Tailstock MT2 Taper 10-1106-6000

TiN-coated Cutter with Inserts, 7 Pc Set, 10 mm 10-1110-1000

7-Piece Set, Insert Replacements 10-1110-2000

Pneumatic Shield Opener with Sensors 10-1110-6000

Pneumatic Air Chuck 10-1111-0000

Jog Pendant Handwheel 10-1111-1000

Basic Air Compressor and Conditioning System 324325

Coolant System - 110 VAC 10-1108-1110

Coolant System - 220 VAC 10-1108-1220

Project Kit, Sterling Engine 10-9603-0000

Project Kit, Chess Set 10-7551-0000

intelitek

18 Tsienneto Rd, Derry, NH 03038 USA

603-413-2600

info@intelitek.com

www.intelitek.com