



ProTurn 9000 CNC Turning Center

The ProTurn 9000 requires no assembly, arriving at your facility ready to run on 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

Computer System Requirements

Intel / AMD Single Core 1.6GHz
512MB RAM
300MB Available Disk Space
Windows XP SP3 / Vista / 7 - 32 or 64bit
1 available LAN port*

*Additional LAN port required if your computer requires wired network access

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 CNC-9000-STRT

Includes:

- CNC ProTurn 9000
- 10 x 10mm Cutter Tool Holder
- TiN-coated Tip
- Drill Chuck for Tailstock
- Rolling Center
- LM7 Content, Vir, CNC Turning w/ProTurn 9000

Advanced Bundle, 110/220 VAC, Imp/Met CNC-9000-ADV

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
FANUC™ 21i Emulator	63-6789-2000-FA
SpectraCAM Turning	10-6743-0000

Curriculum

CNC Turning with ProTurn 9000, LearnMate course, Lab	
Imperial	77-8143-0001
Metric	77-8143-0002
CNC Turning with ProTurn 9000, LearnMate course, Virtual	
Imperial	77-3143-0001
Metric	77-3143-0002

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	10-4526-0000
Quiet Operation Air Compressor / Cond. System	10-4527-0000
Coolant System - 110 VAC	10-1108-1110
Coolant System - 220 VAC	10-1108-1220
Project Kit, Brass Cannon	10-9307-0000
Project Kit, Sterling Engine	10-9603-0000
Project Kit, Chess Set	10-7551-0000

Contact Us:

intelitek

Toll Free: 800-221-2763
 Phone: 603-413-2600
 Fax: 603-437-2137

Email:
info@intelitek.com
www.intelitek.com