

# ProMill 8000 CNC Machining Center

The ProMill 8000 is a versatile CNC machining center that enables you to deliver robust instruction in computer numerical control and advanced manufacturing for your students.

The ProMill 8000 is an AC servo motor 3-axis, PC-based mill with an optional 4th rotary axis. The mill requires no assembly, arriving at your facility ready to run on an Ethernet port on a standard PC. Like larger industrial machines, the ProMill 8000 uses EIA, ISO, and FANUC™-compatible G&M code programs to cut parts in a variety of materials.



## Standard Features

- Ethernet-based control
- AC servo axis motors
- Brushless spindle motor
- Full enclosure with automatic safety door lock
- 12-Tool automatic tool changer
- Automatic diagnostics and power cut off protection
- PC-based CNC software
- Pneumatic drawbar
- Coolant-ready
- Jog pendant-ready
- 4th-axis ready
- Robotic integration-ready with 6 inputs, 6 outputs
- No assembly required

## Included Accessories

- Pneumatic drawbar
- Internal work light
- One shot lubrication system
- ProMill accessory package:
  - ◇ (1) 10-pc. Clamping kit
  - ◇ (1) 4-flute, HSS end mill - 3 mm
  - ◇ (1) 4-flute, HSS end mill - 1/8"
  - ◇ (1) ISO 20 tool holder
  - ◇ (1) ER16 collet - 4 mm
  - ◇ (1) ISO 20 Tool holder nut wrench
  - ◇ (1) Tool Holder wrench, 30mm
  - ◇ (1) Open-end wrench Set, 3-pc
  - ◇ (1) Allen wrench set, 6-pc
  - ◇ (1) 2M Ethernet cable
  - ◇ (1) Storage box
  - ◇ Misc. accessories

## Specifications

### Axis Travel

X Axis, max	280 mm	11"
Y Axis, max	152 mm	6"
Z Axis	270 mm	10.625"

### Work Area

Table Size	550x160 mm	21.6"x6.3"
No. of T-Slots	3	
T-slot size	12 mm	0.47"
Max. table load	35 Kg	77 lbs

### Spindle

Motor Type	Brushless	
Motor power	1.34 hp, 1000 w	
Spindle speed	100 – 5000 RPM	
Spindle taper	ISO20	
Max. tool diam.	10 mm	0.375"
Throat	232 mm	9.130"

### Accuracy

Position accuracy	0.038 mm	0.0015"
Repeatability	0.010 mm	0.0004"

### Dimensions

Machine size		
Width	1280 mm	50.40"
Depth	895 mm	35.23"
Height	1845 mm	72.64"
Shipping size		
Width	1420 mm	55.91"
Depth	1060 mm	41.73"
Height	2035 mm	80.12"

### Weight (approximate)

Machine weight	510 Kg	1124 lbs
Shipping weight	570 Kg	1256 lbs

### Axis Drive Motors

Axis motor type	AC servo	
X axis	400w	
Y axis	400w	
Z axis	750w	
Rapid feed rate	5000 mm/min	197 ipm
Feed rate	2540 mm/min	100 ipm

### Air Supply Requirements

620 kPa (90 psi)  
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

# ProMill 8000 CNC Machining Center

## Curriculum

LM7 Content, CNC Milling w/ProMill 8000	77-8142-0001
LM7 Content, CNC Milling w/ProMill 8000 (M)	77-8142-0002

## Hardware

ProMill 8000 ATC - 110 VAC	00-5509-0110
ProMill 8000 ATC - 220 VAC	00-5509-0220

## ProMill 8000 Bundles

### Starter Bundle, 110/220 VAC, Imp/Met CNC-8000-STRT

- ProMill 8000 AC with 12 Tool ATC
- 4" Vise
- ISO 20 Tool Holder
- 58-pc Clamping Kit
- ER16 Collet set, 8-pc
- Advanced End Mill Package
- LM7 Content, Vir, CNC Milling w/ProMill 8000

### Standard Bundle, 110/220 VAC, Imperial CNC-8000-STND-I

- ProMill 8000 AC with 12 Tool ATC
- 4" Vise
- 58-pc Clamping Kit
- Advanced End Mill Package, Imperial
- LM7 Content, Vir, CNC Milling w/ProMill 8000
- 4-tool ISO 20 Tool Holder Package, Imperial
- Jog Pendant Handwheel
- Stock Package, Wax, 3" x 2" x 1.5" - 50 Pcs

### Advanced Bundle, 110/220 VAC, Imperial CNC-8000-ADV-I

Includes all Standard Bundle items, plus:

- ER16 Collet Set, 8-pc (3,4,5,6,7,8,9 and 10mm)
- Coolant system 27L - 110V
- 4th-Axis Rotary Worktable with Tailstock
- 3-Jaw Chuck, 80mm
- Engraving Package, Imperial
- ISO 20 Tool Holder
- Computer / Monitor Stand

### Standard Bundle, 110/220 VAC, Metric CNC-8000-STND-M

- ProMill 8000 AC with 12 Tool ATC
- 4" Vise
- 58-pc Clamping Kit
- ISO 20 Tool Holder
- End Mill Package, Metric (2X 3,6,8,10End,4,6 Ball)
- ER16 Collet Set, 8-pc (3,4,5,6,7,8,9 and 10mm)
- ER16 Collet set - 2 x (3,6,8,10mm)
- Jog Pendant Handwheel
- Stock Package, Wax - 50 Pcs
- LM7 Content, Vir, CNC Milling w/ProMill 8000 (M)

### Advanced Bundle, 110/220 VAC, Metric CNC-8000-ADV-M

Includes all Standard Bundle items, plus:

- Coolant System 27L -220V
- 4th-Axis Rotary Worktable with Tailstock
- 3-Jaw Chuck, 80mm
- Engraving Package, Metric (1,1.5,2 mm End mill)
- Engraving Tool Set, 6mm
- Computer / Monitor Stand

## Software

CNCMotion® Simulation Software	63-6789-1000
FANUC™ 21i Emulator	63-6789-2000-FA
SpectraCAD Engraver	63-6723-0000
SpectraCAM Milling	63-6733-0000

## Options and Accessories

Jog Pendant Handwheel	10-1111-1000
4" (100mm) Precision Vise	10-1111-6000
58-pc Clamping Kit	10-1111-5000
ISO 20 Tool Holder with Nut	10-1111-9000
4-tool ISO 20 Tool Holder Package, Imperial	10-1111-7000
Machinists Kit	10-5810-0000
End Mill Set, 3 Piece, Imperial	10-1113-3000
End Mill Set, 3 Piece, Metric	10-1113-2000
Advanced End Mill Set, 14 Piece, Imperial	10-1113-5000
Advanced End Mill Set, 12 Piece, Metric	10-1113-4000
Engraving Tool Set, 3 Piece, Imperial	10-1113-7000
Engraving Tool Set, 3 Piece, Metric	10-1113-6000
Engraving Tool Set, 7 Piece, Metric	10-1108-6000
ER16 Collet - 10mm	10-1113-0000
ER16 Collet - 4mm	10-1112-4000
ER16 Collet - 7mm	10-1112-7000
ER16 Collet Set - 8 Piece	10-1112-2000
ER16 Collet Set - 8 Piece	10-1115-0000
4th-Axis Rotary Positioner with Tailstock	10-1108-8000
3" (80mm) 3-Jaw Chuck for Rotary Positioner	10-1109-3000
3" (80mm) 4-Jaw Chuck for Rotary Positioner	10-1106-3000
Dual-axis Pneumatic Vise	10-1110-7000
Single-axis Pneumatic Vise	10-1110-8000
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
Pneumatic Shield Opener	10-1110-4000
Machine-mounted Computer / Monitor stand	10-1105-5000
100mm Vice with Angle Adjustment	10-1108-2000

## Projects

Project, 4-Cavity Mold	77-7022-0001
Project, Planetary Gearbox	77-7023-0001
Project Kit, CO2 Car, 50-students	10-7016-1001
CO2 Car Consumables, 50-students	10-9301-0000
Project Kit, Precision Measuring Device	10-7006-0001
Precision Measuring Device Materials, 50-students	10-9304-0000
Project Kit, Golf Putter	10-7007-1000
Golf Putter Consumables, 50-students	10-9302-0000
Project Kit, Yo-Yo	10-7001-1001
Project Kit, Sterling Engine	10-9603-0000



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

Email:  
[info@intelitek.com](mailto:info@intelitek.com)  
[www.intelitek.com](http://www.intelitek.com)