



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

Power Requirements

United States

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

International

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

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Curriculum

LM7 Content, CNC Milling Imp/Met	88-3147-0000
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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 **HW-PM8K-STRT**

- ProMill 8000 AC with 12 Tool ATC
- 4" Vise
- ISO 20 Tool Holder
- 58-pc Clamping Kit
- ER16 Collet set
- Advanced End Mill Package

Standard Bundle, 110/220 VAC, Imp/Met **HW-PM8K-STND**

- ProMill 8000 AC with 12 Tool ATC
- 4" Vise
- ISO 20 Tool Holder
- 58-pc Clamping Kit
- ER16 Collet set
- Advanced End Mill Package
- Jog Pendant Handwheel
- Stock Package, Wax, 3" x 2" x 1.5" - 50 Pcs

Advanced Bundle, 110/220 VAC, Imp/Met **HW-PM8K-ADV**

Includes all Standard Bundle items, plus:

- Coolant system
- 4th-Axis Rotary Worktable with Tailstock
- 3-Jaw Chuck, 80mm
- Engraving Package
- Computer / Monitor Stand

Software

CNCBase for Intelitek CNC and Fanuc Emulator	Included
CNCMotion® Simulation Software	63-6789-1000
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
4" (100mm) Vice with Angle Adjustment	10-1108-2000
58-Piece Hold Down Set	10-1111-5000
ISO 20 Tool Holder with Nut	10-1111-9000
Tool Holder Set	10-1111-7000
Machinists Kit	10-5812-0000
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 - 3/8"	10-1130-5000
ER16 Collet - 5/16"	10-1130-4000
ER16 Collet - 1/4"	10-1130-3000
ER16 Collet - 3/16"	10-1130-2000
ER16 Collet - 1/8"	10-1130-1000
ER16 Metric Collet Set, 8 Piece (3,4,5,6,7,8,9,10mm)	10-1112-2000
ER16 Metric Collet Set, 8 Piece (2x 3,6,8,10mm)	10-1115-0000
ER16 Imp Collet Set, 5 Piece (1/8", 3/16", 1/4", 5/16", 3/8")	10-1130-0000
Table-mounted 4-station Automatic Tool Changer	10-1113-1000
Table-mounted ATC Package	10-1115-2000
4th Axis Package, 100 mm (4") Rotary Worktable	10-1115-3000
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	324325
Coolant System - 110 VAC	10-5817-0110
Mobile Workbench with 3 Drawer Cabinet, 96"	10-5592-0000
Mobile Workbench with 2 Drawers, Casters, 60"	10-5596-0000

Projects

Project, 4-Cavity Mold	CNC-PROJ-4CAV
Project, Planetary Gearbox	CNC-PROJ-PLAN1
Project Kit, CO2 Car, 50 students	CNC-PROJ-CO2
Project Kit, Precision Measuring Device, 50 students	CNC-PROJ-PMD
Project Kit, Golf Putter, 50 students	CNC-PROJ-PUTT
Project Kit, Yo-Yo, 50 students	CNC-PROJ-YOYO
Project, Sterling Engine	10-9603-0000



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