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
- 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
- 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 10-1111-0000
- 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

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