

CNC Milling Technology with ProMill 8000

The CNC Milling Technology course introduces students to the fundamentals of CNC (Computer Numerical Control) milling. Students learn the fundamentals of CNC milling by working with the ProMill 8000 to accurately machine a series of complex parts. Activities challenge students to develop and edit programs, and machine assorted parts.

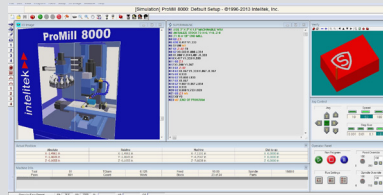
Course Information

Type	Virtual; Lab
Units of measurement	Imperial; Metric
Languages	English
Hours of instruction	15

Course Outline

- Introduction and Safety
- CNC Control Software
- Mounting the Workpiece
- Tooling
- Reference Positions
- Verifying a Program
- Running a Program
- Fundamentals of NC Programming
- Programming the House
- Machining Project #1
- Arc Programming
- Programming the Star Project #2
- Machining Project #2
- Programming Your Initials Project #3
- Final Project

Our e-learning curriculum combines interactive simulation with world-class hardware. Lab courses feature interactive on-line curriculum and robust hardware for the ultimate hybrid learning experience! Curriculum is fully integrated with our lab equipment, including the ability to launch software directly from the content.




CNC Milling Technology with ProMill 8000 may be deployed through LearnMate®, Intelitek's learning management system (LMS). LearnMate, fully hosted in the cloud, provides an easy-to-implement and easy-to-use LMS for education organizations of all types that provides the best technology and capabilities without the burden of IT support and maintenance. LearnMate provides everything needed for the ultimate blended learning experience:

- SCORM-compliant interactive content
- Anytime, anywhere accessibility
- Student and class management
- Flexible content leasing options for continuous updates



CNC Milling Technology with ProMill 8000 (continued)

Ordering Information

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

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
Project Kit, Brass Cannon	10-9307-0000



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