CNC Turning Technology with BenchTurn 7000

The CNC turning technology module introduces the student to the use of BenchTurn 7000. Students learn the CNC process through a series of projects. Each project teaches job setup, drawing construction, tool path generation, tool path verification and NC code generation. Students use the skills they learn to produce a part on the machine.

Course Information

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<thead>
<tr>
<th>Course Information</th>
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<tbody>
<tr>
<td>Type: Virtual; Lab</td>
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<td>Units of measurement: Imperial; Metric</td>
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<td>Languages: English</td>
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<td>Hours of instruction: 15</td>
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Course Outline

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

Our e-learning curriculum combines interactive simulation with world-class hardware. Lab courses feature interactive online 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 Turning with BenchTurn 7000 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 Turning with BenchTurn 7000 (continued)

Ordering Information

Curriculum

CNC Turning with BenchTurn 7000, LearnMate course, Lab
- Imperial 77-8141-0001
- Metric 77-8141-0002

CNC Turning with BenchTurn 7000, LearnMate course, Virtual
- Imperial 77-3141-0001
- Metric 77-3141-0002

Hardware

BenchTurn 7000 - 110 VAC 00-5504-0110
BenchTurn 7000 - 220 VAC 00-5504-0220

Starter Bundle, 110/220 VAC, Imp/Met CNC-7000-STRT
Includes:
- CNC BenchTurn 7000
- 10 x 10mm Cutter Tool Holder
- TiN-coated Tip
- Drill Chuck for Tailstock
- Rolling Center
- LM7 Content, Vir, CNC Turning w/BenchTurn 7000

Advanced Bundle, 110/220 VAC, Imp/Met CNC-7000-ADV
Includes all Starter Bundle items, plus:
- 4-jaw Chuck
- Handwheel - Manual Control
- Coolant System

Accessories

4-Jaw Chuck with 3.9” (100mm) Flange 10-1104-7000
Pneumatic Air Chuck 10-1110-9000
TiN-coated Cutter w/Inserts, 10 mm, 7-Pc Set 10-1110-1000
Cutter Insert Replacements 7-pc Set, 10-1110-2000
Pneumatic Shield Opener with Sensors 10-1110-5000
Tailstock Chuck MT2 Taper 1/2” (13mm) 10-1105-7000
Rolling Center, Tailstock MT2 Taper 10-1106-6000
Basic Air Compressor and Conditioning System 10-4526-0000
Quiet Operation Air Compressor / Cond. System 10-4527-0000
Jog Pendant Handwheel 10-1111-1000
Coolant System - 110 VAC 10-1108-1110
Coolant System - 220 VAC 10-1108-1220
Mobile Workbench 6Ft, Desk Style, Wood Top 10-5594-0000
Mobile Workbench with Storage Cabinet, 60” 10-5590-0000
Mobile Workbench with 3-Drawer Cabinet, 60” 10-5591-0000
Mobile Workbench with 3-Drawer Cabinet, 96” 10-5592-0000
Project Kit, Brass Cannon 10-9307-0000
Project Kit, Sterling Engine 10-9603-0000
Project Kit, Chess Set 10-7551-0000