



**INSTRUCTOR
APPROVED**

Featuring the Exclusive
TEC Cutting Edge Lathe

plus **everything** to teach
Manufacturing and Industrial
Production Included -

FREE!

The Total Classroom Manufacturing Package!

- ☑ **FREE KEYCREATOR™**
(The Next Evolution of CADKEY!)
Full Commercial Version Design (CAD)
Software (\$3,000 Commercial Value!)
- ☑ **FREE SURFCAM®**
Full Commercial Version Machining
(CAM) Software (\$17,000 Commercial
Value!)
- ☑ **FREE VELOCITY™ CNC Control
Software**
- ☑ **FREE Tooling / Accessories**
 - 2-1/2" Self-Centering Chuck
 - Jacobs Tailstock Drill Chuck
 - Faceplate and Lathe Dog
 - 2 Dead Centers
 - #1 Morse Taper Head Stock
 - #0 Morse Taper Tail Stock
 - Hex Key Set
(25 Piece SAE and Metric)
 - HSS Cutting Tools (9 Piece)
 - Tool Post
 - #1 Morse Taper Drill Chuck and Draw Bolt
- ☑ **FREE Accessories Kit**
(contents listed on back)
- ☑ **FREE 6" Adjustable Wrench**
- ☑ **FREE Vacuum System**
- ☑ **FREE Non-ferrous Materials for
Turning**
- ☑ **FREE ANSI Hex Key Set (13 Pc.)**
- ☑ **FREE RS232 Serial Cable Link**
- ☑ **FREE Adjustable Halogen
Gooseneck Work Lamp**
- ☑ **FREE Lexan® Safety
Shield with Safety
Interlock**
- ☑ **FREE Users Guide**
- ☑ **FREE Technical Support**
- ☑ **FREE 1 Year Warranty**



Cutting Edge Accessories Kit

- (2) Pair Safety Glasses
- 6" Stainless Steel Digital Caliper with Case
- 4" Solid Steel Machinist's Set-up Square
- 6" Steel Scale (Inches/Millimeters)
- (2) Chip Brushes

Cutting Edge Software Highlights

KEYCREATOR™ (the Evolution of CADKEY)

Hybrid Modeling CAD*

- 2D Drafting and 3D Design
- Solid Model Creation and Rendering
- Advanced Surface Modeling Functionality
- Advanced Rendering Capabilities including Lighting
- Hundreds of Creation, Transform, Modify, Layout, Tools, and Detail Features and Enhancements
- Includes the Industry's most comprehensive range of data translators including DWG, DXF™, IGES, STEP, ACIS-SAT, Parasolid®/X_T and STL
- SURFCAM's file translators import KEYCREATOR files.



Image courtesy of FiveAxis Snowboard Manufacturing



SURFCAM CAM*

- 2-, 3-, 4-, and 5-axis Machining
- Integrated Toolpath Verification
- Operations Manager provides a graphical interface for reordering, regenerating, verifying, and posting operations
- Full associativity throughout
- Advanced Part Finishing
- Advanced file preview technology allows students to preview parts before loading the file



Image courtesy of Jon Kammerer Guitars

VELOCITY Control Software*

- 3 Axis Milling/Router Control
- Continuous Contouring
- Built-in Program Editor
- Off-line Programming Mode
- Single Line or Continuous Run Modes
- 8 Optically Isolated Inputs/8 Optically Isolated Outputs
- On-Screen Verify/Simulation
- Custom Programmable M-Codes
- Multiple Supported M-Codes and G-Codes
- Other Codes F, () Comment
- Built in DXF Interpreter converts DXF files into G-Codes

***Note:** For detailed software features for KEYCREATOR, SURFCAM or VELOCITY, contact our Sales Team at 1-800-338-2238.

TEC Cutting Edge Lathe Specifications

- Swing Over Bed: 3.5"
- Swing Over Carriage: 1.88"
- Distance Between Centers: 8.0"
- Hole Through Spindle:405"
- Z-Axis Travel: 5.75"
(Dependent on Chuck & Tailstock Placement)
- X-Axis Travel (Cross slide): 4.25"
- Spindle Nose Thread 3/4-16 TPI
- Spindle Nose Taper: #1 Morse
- Tailstock Spindle Taper: #0 Morse
- Protractor Graduations: 0° to 45° by 5°
- Handwheel Graduations:001"
- Accuracy / Repeatability:001"
- Resolution:000125"
- Electronic Spindle Control: 70 to 10,000 RPM
- Spindle Motor: High Torque 90VDC Motor (1/3 HP DC equivalent to 1/2 HP AC Motor)
- Stepper Motors: 2-250 oz./in.
- Max. Rapid and Feed Rate up to 35 IPM
- Max. Programmable Rapid and Feed Rate up to 35 IPM
- Fully Enclosed
- Machine Dimensions: 32.125" x 31" x 27.25"
- Manual and CNC Modes
- 160 Lbs Uncrated Weight

Safety Features

- Lexan® Safety Shield with Interlock Switch
- Emergency Stop Button
- Totally Enclosed Cabinet
- Illuminated Key Operated Power Switch
- Software Controlled Safety Stops
- Graphics to Verify Program Prior to Machining

Electrical Requirements

Power Requirements: 110 Volts AC / 15 amp

Computer Requirements

Pentium Based Computer with CD-ROM Drive; Windows® 2000 or higher; Min. 128 meg RAM; Min. 500 MB free disk space; 1024 X 768 Graphics Card

**The Total
TEC Cutting Edge Turning Center**

Only **\$9,995!**

Item No. 500-0001

Questions? Call TEC, Inc.

 **1-800-338-2238**