

TRAK[®] MACHINE
TOOLS

Featuring
ProtoTRAK CNCs

TRL 1440EX Lathe

Compact and Easy to Use

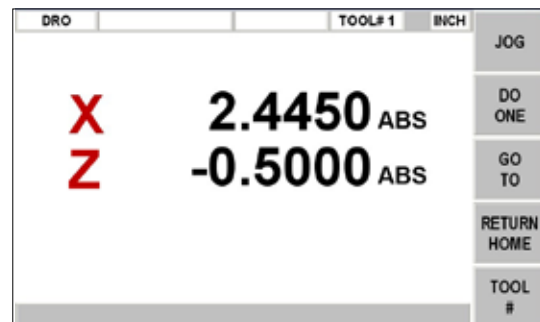


The TRAK 1440EX with ProtoTRAK ELX



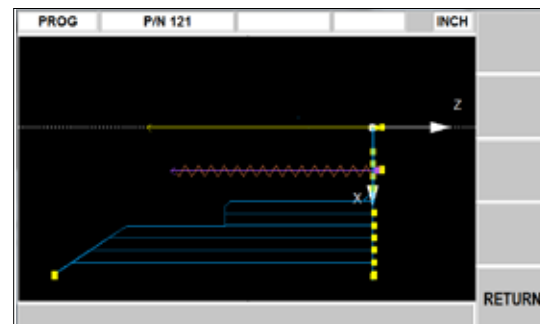
With the TRAK 1440EX Lathe we bring you the look and feel of a manual lathe, but with the efficiency of our ProtoTRAK CNC. It's easy to learn and use, making it ideal for a shop where several people will have access or need to use it and education/vocational schools. This lathe features basic turning capabilities as well as ELX CNC functions such as threading, profiling with standard tools, and repeatability from part to part.

ProtoTRAK ELX Features



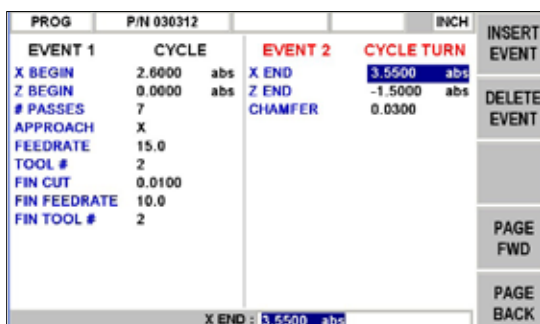
DRO Mode

gives you CNC functionality for manual turning work.



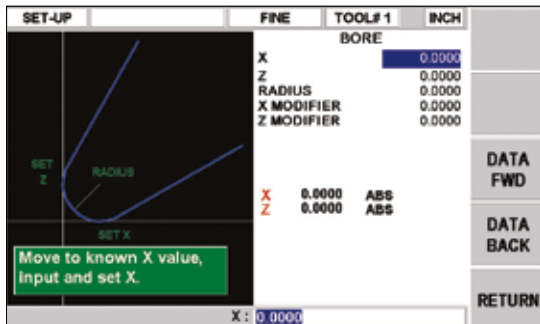
Part Graphics

make it easy to check your programs.



Cycle

Just program the profile you want and the ELX will program the toolpath to clear the stock for you.



Tool Setting

- Set tools easily with the prompted, graphical interface
- Tool data is applied to CNC and manual machining

ProtoTRAK ELX Specifications

Programming is always easy.

Just select the geometry and answer the prompts.



Hardware

- Digital Servo Amplifiers – custom designed for ProtoTRAK operation
- D.C. Servo Motors – rated at 280 in-oz. continuous torque
- Precision Ball Screws
- Modular Design – simplifies service and maximizes uptime
- 115V/60Hz
- 10 amps
- Feedrate Override of programmed feedrate and rapid
- Polycarbonate Sealed Membrane Keypad to lock out contamination
- 7.0" Color LCD with adjustable contrast
- On board IDE flash memory storage for part programs
- 2 USB ports for interface with a storage device
- Rugged Industrial PC
- Electronic Handwheels for manual operation
- Fine/coarse selectable manual movement
- Jog button in DRO

Options

- Remote Stop/Go (RSG) switch
- USB thumb drive for program storage and transfer

Programming Canned Cycles

Position, Drill/Bore, Turn, Arc, Cycle, Thread, Repeat

Software

- Diameter Cutter Compensation
- Circular interpolation
- Linear Interpolation
- Conrad – provides automatic corner radius programming
- Incremental and Absolute dimensioning
- Error Messages – to identify programming mistakes
- Fault Messages – for system self-diagnostics
- Parts graphics display
- Look – a single button press to view part graphics
- Machine Tool Error Compensation
- Backlash Compensation
- Selectable Inch/mm measurement readout
- Jog from 1 to 100 inches per minute
- Continue Turn & Arc to eliminate repetitive data inputs while programming
- Context help information
- CAM to ProtoTRAK conversational language file conversion
- Cycle event to automatically program roughing passes
- Tool table and tool offsets for CNC and manual operation
- Free offline programming available for download from our website

Specifications TRL 1440EX Lathe

	1440EX
ProtoTRAK CNC model	ELX
Height of Centers	7"
Distance between Centers	40"
Swing over bed	14"
Swing over Saddle Wings	14"
Swing over Cross Slide	7.0"
Cross Slide Travel	8.0"
Tool Section Max	3/4"
Coolant Tank Capacity	3 gal.
Width of Bed	8.1"
Height of Bed	10.6"
Spindle Nose	D1-4
Spindle through Hole	1.56"
Spindle Taper	MT#5
Taper in Reduction Sleeve	3
Spindle dia at front bearing	2.36"
Number of Bearings	2
Spindle Speed Range (RPM)	60–2400
Number of Speeds	12

	1440EX
Tailstock	Standard
– Quill Travel	5"
– Quill Diameter	1.575"
– Quill Taper Hole	MT#3
Spindle Motor HP	5
Power Requirements, Control	110V; 1P; 8A
Power Requirements, Machine	220V; 3P; 60Hz
Amps full load current	15
Dimensions net	73" x 44" x 57"
Dimensions shipping	78" x 49" x 67"
Weight net	1800 lbs.
Weight shipping	2200 lbs.
Maximum Rapid Feed X (IPM)	100
Maximum Rapid Feed Z (IPM)	100
Coolant Pump Motor	1/8 HP
Spindle Motor Brake	Magnetic
Way Surface Hardness	400 – 450 HB
Head Stock Lubrication	Splash Lube

1440EX Options

Faceplate - 10"

Follow Rest - 1.97"

- Solid brass nib type

Chuck - 6" D1-4 | Through Hole - 1.57"

- Direct mounting, featuring separate top jaws and master jaws
- Chucks offered for each model are rated from the maximum RPM of the lathe

Steady Rest - .20 to 2.36" roller

Work Lamp

- Mounts on the underside of the chip enclosure

Coolant Pump

- 1440EX coolant pump turned on and off by switch on apron

Tooling Kit - 3/4"

- Dorian brand tooling kit contains a tool post and a variety of tool holders
- The tool post has a release mechanism for quick, easy tool changes. Repeatable within .001"



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