

Southwestern Industries, Inc.

TRAK TRL 2460V Lathe with the ProtoTRAK VL CNC

TRAK TRL 2460V Machine Specifications

- Height of Centers- 11.5"
- Distance between centers- 60"
- Swing over bed – 24"
- Swing over saddle wings – 24"
- Swing over cross slide – 14.5"
- Cross slide travel – 12.5"
- Tool section max – 1.25"
- Coolant – 18 gal.
- Bed Width – 15.75"
- Bed Height – 12 5/8"
- Spindle Nose – D1-8
- Spindle through hole – 4.09"
- Spindle Taper – MT #8
- Taper in reduction sleeve – MT #5
- Spindle diameter front bearing – 5.51"
- High-speed angular contact bearings
- Number of bearings - 2
- Bearing Class (Radial Runout) – P5
- Number of Spindle Speed Ranges - 2
- Spindle Speed Range (RPM) – 40-670, 100-1800
- Spindle HP – 15
- Voltage - 220
- Amps/full load - 59
- Phase/HZ-3/60
- Dimensions net LxWxH 113x58x74"
- Dimensions ship LxWxH – 117x59x77"
- Weight net - 7300 lbs.
- Weight ship – 8000 lbs.
- 2 speed tailstock quill
- Tail stock quill travel – 6.35"
- Quill diameter – 3.5"
- Quill taper hole - MT#5
- Coolant pump motor - 1/8 HP
- Dynamic spindle motor brake
- Way surface hardness - 400-450 HB
- Direct drive headstock - no gear shifting
- Quiet operation
- Dual sliding doors to control chips and coolant with one door removable
- Meehanite cast monolithic base
- Heavy ribbed base construction
- Bedways hardened and ground
- Sliding surfaces Turcite coated
- Dovetails on cross slide, V-ways on saddle
- Adjustable saddle gibs
- Maximum rapid 250 ipm

ProtoTRAK VL CNC - the control on the TRAK V Series Lathes

Hardware Specifications

- Two-axis CNC, two-axis DRO
- Pentium processor with built-in video and Ethernet cards
- 32 MB or RAM with expansion slots available
- Hard drive
- TEAC floppy disk drive
- Ports and connectors: P/S 2 keyboard and mouse, RS232, RJ45
- 10.4" color active-matrix display
- Override of programmed feedrate and rapid with graphical indicator
- Polycarbonate sealed membrane with LED status lights
- Gasket sealed enclosures
- Brushless A.C. servomotors rated at 704 in-oz continuous torque
- Integrated motor encoders with .000025" underlying resolution.
- 250 IPM rapid traverse
- Precision ground ballscrews for cross slide and longitudinal travel
- Programmable spindle speed
- Override of programmed spindle speed with graphical indicator
- Electronic handwheels
- Jogstick for convenient jog
- Yaskawa AC spindle drive
- Digital servo amplifiers custom designed for lathe operation

Software Specifications

- Windows® operating system with access to Windows® desktop
- Constant Surface Speed programming
- Feedrate programmable in Inches per Revolution or Inches per Minute
- Circular interpolation
- Linear interpolation
- Six modes of operation
- Color graphics with adjustable views
- Icon-prompted tool set-up
- Automatic cutter compensation
- Tool modifiers
- Advanced diagnostic routines
- Jog and Powerfeed in DRO mode
- Selectable fine/course manual traverse
- Go To – traverse stops at dimension selected
- Automatic return to home
- Incremental and Absolute position readout
- Inch/mm selectable
- Alpha-numeric program names
- Event comments
- Convenient canned cycles for all geometry
- Cycle event for automatic roughing passes
- Repeat of programmed events

- LOOK – program graphics with a single button push
- List step – graphics with programmed events displayed
- Conrad – one input for automatic corner radius
- Chamfer – one input for chamfer
- Incremental and Absolute programming
- Program diagnostics
- CAD/CAM interface
- Math helps with prompted graphical interface
- Spreadsheet editing™
- Global data change
- Clipboard to copy events between programs
- TRAKing® – manual control of CNC program run
- Real time run graphics with tool icon
- Access to networked drives
- Automatic file back-up routine
- Threading in an infinite range of standard and multi-lead threads
- Software interface with optional indexer or gang tooling

Service

- The SWI Customer Service Group provides after-sale support over the telephone via a toll-free service number - (800) 367-3165.
- Machine design makes self-service easy for when the customer is able to resolve the problem.
- Express Exchange program in which nearly all electronic and mechanical sub-assemblies are in stock. In response to a problem, any parts you need may be shipped to arrive the next day.

Available Options/Accessories

- Collet Closer –5C – A2-5
- Chuck : 6" A2-5
- Steady Rest – Roller Type, 1/2"- 5 1/2"
- Offline Software
- Tooling Kit – 3/4"
- Indexer – 3/4", 8 position
- Gang tooling – 3/4"

The DXF File Converter Option

Import and convert CAD data into ProtoTRAK programs

DXF or DWG files

Chaining

Automatic Gap Closing

Layer control

Drawing Line Edit

Easy, prompted process you can do right at the machine

CAM Out Converter Option

Save ProtoTRAK files as CAM files for running on different controls