# TRAK TRL 2460SX Lathe with the ProtoTRAK SLX CNC

## **TRAK TRL 2460SX Machine Specifications**

- Height of Centers- 12"
- 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 11"
- Coolant 11 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
- Control 110V/1P/15A
- Machine 220V/3P/60Hz
- Dimensions net LxWxH 112 x 52 x 62"
- Dimensions ship LxWxH 117 x 59 x 77"
- Weight net 5700 lbs.
- Weight ship 6200 lbs.
- 2 speed tailstock quill
- Tail stock quill travel 6.88"
- Quill diameter 3"
- 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

### **Machine Options**

- Chuck
- Coolant pump
- Face plate
- Follow rest
- Gang tooling
- Indexer 4 or 8-station
- Work lamp
- Remote stop/go switch
- Steady rest
- Tooling kit
- TRAKing

# **ProtoTRAK SLX System Specifications**

(O) indicates optional feature

#### ProtoTRAK System Hardware

- ProtoTRAK SLX CNC
- Two-axis CNC, two-axis DRO
- Electronic handwheels for manual operation
- 10.4" color active-matrix screen
- Industrial-grade Celeron® processor
- 256 Mb Ram
- P/S 2 Keyboard connector
- 2 USB connectors
- RJ45 port and Ethernet card (O)
- Override of program feedrate
- Override of program spindle speed
- LED status lights built into display
- TEAC floppy drive
- Gasket-sealed enclosures
- Jogstick for convenient jog
- 128 Mb USB Thumb Drive flash memory (O)
- Clean front panel with few hard keys

# **Software Features – general operation**

- Clear, uncluttered screen display
- Prompted data inputs
- English language no codes
- Soft keys change within context
- Windows® operating system
- Color graphics with adjustable views
- Inch/mm selectable
- Convenient modes of operation (see below)

#### **DRO Mode features**

- Incremental and absolute dimensions
- Jog at rapid with override
- Powerfeed X or Z
- Tapers of any angle
- Radius

- Fillet
- Go To dimensions (O)
- Servo motor return to Home
- Spindle speed setting with override
- Tool offsets from library
- Fine/course handwheel resolution (O)

#### **Program Mode features**

- · Geometry-based programming
- Event comments (O)
- Incremental and absolute dimensions
- Automatic tool nose radius compensation
- Circular interpolation
- Linear interpolation
- Look –graphics with a single button push
- List step graphics with programmed events displayed
- Alphanumeric program names
- Conrad one input for automatic corner radius programming
- Chamfer one input for automatic chamfer programming
- Math helps with graphical interface
- Auto load of math solutions
- Subroutine repeat of programmed events
- Nesting
- Programmable spindle speeds
- Program run time clock in Run Mode (O)
- CSS (Constant Surface Speed) programming (O)
- IPR (Inch per Revolution) programming (O)
- Gang tooling (O)

#### **Canned cycles**

- Position
- Drill
- Bore
- Turn
- Arc
- Cycle
- Thread
- Groove
- Custom thread (O)
- Tap (O)

#### **Edit mode Features**

- Delete events
- Erase program
- Spreadsheet editing (O)
- Global data change (O)
- Clipboard to copy events between programs (O)

#### **Set Up Mode Features**

- Program diagnostics
- Advanced tool library
- Tool library file save
- Icon-prompted tool setting

- Tool offsets with modifiers
- Single tool set-up
- Gang tool set-up (O)
- Indexer tool set-up (O)
- Advanced diagnostic routines
- Software travel limits
- · Tool path graphics with adjustable views
- Program run time estimation clock

#### **Run Mode Features**

- CAM file program run
- Real time run graphics with tool icon
- Countdown clock to next pause or tool change (O)
- TRAKing of programs during program run (O)
- Automatic indexing for tool change (O)
- Gang tool operation (O)

# **Program In/Out Mode Features**

- Simple program storage to floppy
- CAM program converter
- Converter for prior-generation ProtoTRAK programs
- DXF/DWG file converter (O)
- Selection of file storage locations (O)
- Automatic file back-up routine (O)
- Preview graphics for unopened files (O)
- Networking (O)

# **Control Options**

# **Advanced Features Option**

- Spreadsheet editing
- Global data change
- Clipboard to copy events to another program
- Event comments
- Program run time estimator
- CSS (Constant Surface Speed) programming
- IPR (Inch per Revolution) programming
- Gang tooling
- Additional Canned Cycles:
- Custom thread
- Tap

### **Networking Option**

Networking via RJ 45 port

#### 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

**TRAKing/Electronic Handwheels Option**TRAKing of programs during program run
Go To Dimensions Selectable Fine/Coarse handwheel resolution