

# TRAK TRL 2470RX Specifications

- Height of Centers – 12"
- Distance between centers – 70"
- Swing over bed – 24"
- Swing over saddle wings – 24"
- Swing over cross slide – 14.5"
- Cross slide travel – 12.5"
- Tool section max – 1"
- Coolant – 15 gal.
- Bed Width – 14.57"
- Bed Height – 15"
- Spindle Nose – D1-8
- Spindle through hole – 4.09"
- Spindle Taper – MT #8
- Spindle diameter front bearing – 5.51"
- Number of bearings - 2
- Bearing Class (Radial Runout) – Normal
- Number of Spindle Speed Ranges - 2
- Spindle Speed Range (RPM) – 40-670, 100-1800
- Spindle HP – 15
- Voltage – 200-240
- Amps/full load – 75
- Machine – 220V/3P/60Hz
- Dimensions net LxWxH 129x60x77
- Dimensions ship LxWxH 134x64x77
- Weight net - 6500
- Weight ship – 6900
- Tail stock quill travel – 8.5"
- Quill diameter – 3.5"
- Quill taper hole – MT #5
- Coolant pump motor – 1/8 HP
- Dynamic spindle motor brake
- Way surface hardness – 480-560 HB
- 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 400 ipm z axis

## Control Specifications

- Two-axis CNC, two-axis DRO
- Electronic Handwheels for manual operation
- 15.6" LCD with Touchscreen
- Intel® 2.0 GHz processor
- 4 GB Ram
- At least 32GB of mSATA SSD
- 5 USB connectors

- 2 Ethernet Ports (1 for user and 1 for control system)
- Override of program feedrate
- Override of spindle speed
- LED status lights built into run panel
- E-stop
- Spindle Control (FWD, REV, OFF)
- Feed STOP and GO
- Fine vs Course EHW resolution control
- Accessory button to control coolant and AUTO mode in RUN mode
- Power Reset Button
- Jogstick for convenient jog

#### **Computer Module Control Hardware**

- 2 axis motor control – X and Z axis, Axis to control CNC Turret
- 14 inputs
- 9 outputs

#### **Software Features – general operation**

- Clear, uncluttered screen display
- Prompted data inputs
- English language – no codes
- Soft keys - change within context
- Windows® operating system
- Selectable two or three-axis CNC
- Color graphics with adjustable views
- Gestures for pan, zoom, rotate
- Inch/mm selectable
- Convenient modes of operation
- Networking

#### **Info Softkeys**

- Status
- Tool Table
- EPA
- Math Help
- Warnings
- Defaults
- Keyboard
- Calculator

#### **DRO Mode features for manual machining**

- Incremental and absolute dimensions
- Powerfeed X or Z
- GO TO
- Do One - Tapers for any angle
- Do One – Radius
- Do One – Fillet
- Thread Repair (O)
- MAX RPM – set maximum RPM for spindle to run
- Servo motion to return to home
- Tool offsets from library
- Spindle speed setting with override

### **Program Mode features**

- Geometry-based programming
- Incremental and absolute dimensions
- Automatic tool nose radius cutter compensation
- Circular interpolation
- Linear interpolation
- Look –graphics at all times
- List step – graphics with programmed events displayed
- Alphanumeric program names
- Canned Cycles
- Program data editing
- Options within events
- Math helps with graphical interface
- Subroutine repeat of programmed events
- Nesting
- Programmable spindle speeds

### **Canned Cycles**

- Position
- Drill
- Bore
- Turn
- Arc
- Cycle
- Thread
- Groove
- Tap (O)
- Cut Off

### **Edit mode Features**

- Delete events
- Search Edit (O)
- Erase program
- G Code Editor (O)
- Clip Board (O)

### **Set Up Mode Features**

- Program Diagnostics
- Software travel limits
- Tool path graphics with adjustable views
- Verify Software
- Service Codes
- CNC Turret Homing
- Advanced Diagnostics routines

### **Run Mode Features**

- CAM file program run
- G code file run with tool comp
- Real time run graphics with tool icon

**Program In/Out Mode Features**

- Simple program storage to USB device or Network
- CAM program converter
- Converter for prior-generation ProtoTRAK programs
- Open and Save Temp Feature
- Cut, Copy, Delete, Paste of program(s)
- Creating folders
- Program Look preview of files

**Advanced Features Option - Lathes**

- Gang tool operation
- Custom thread
- Tap
- Event comments
- Thread repair
- Verify – Make Part feature
- Clipboard
- G Code Edit
- Search Edit