Southwestern Industries, Inc

TRAK DPMS5 Bed Mill with the ProtoTRAK SM CNC Control

TRAK DPMS5 Machine Specifications

- Table Size –50" X 12"
- T-Slots (number x width x pitch)- 3 x .63" x 2.52"
- Travel (X,Y,Z axis)- 40" x 20" x 23.5"
- Maximum Quill Travel – 5"
- Quill Diameter – 3 15/16"
- Spindle Taper – NST 40
- Spindle Speed Range – 70-3950 RPM
- Spindle center to column face – 20"
- Spindle Motor Power – 5 HP
- Power Requirement Control – 110V; 1P; 10A
- Power Requirement Machine – 220/440V; 3P; 14/7A
- Maximum weight of workpiece – 1760 lbs.
- Height of table from bottom of bed – 41"
- Maximum spindle nose to table – 23.5"
- Minimum height – 87"
- Maximum height – 98"
- Width of machine including table – 94"
- Length with electric box door closed – 81"
- Overall width including full table traverse – 136"
- Overall length with electrical door open – 77"
- Footprint of machine – 24" x 48.4"
- Weight net/shipping lbs. – 4400/4600
- Maximum work capacities in mild steel – Drilling 1" dia., Tapping 1", Milling 5in/ min
- Maximum rapid feed – 150 IPM
- Wide way surfaces are hardened and ground
- Slide ways Turcite coated
- Precision ground ballscrews installed in the table, ram and column
- Solid ram moves up and down for Z-axis operation, providing mass for heavy cuts
- Real handwheels so you can work manually

ProtoTRAK SM CNC - the control on the TRAK S Series Bed Mill

Hardware Specifications

- Two of three-axis CNC, three-axis DRO
- Pentium processor with built-in video and Ethernet cards
- 32 MB or RAM with expansion slots available
- Flash 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
- Servo motors – 560 in-oz torque
- Integrated ram and quill encoders

Software Specifications

- Windows operating system
- Selectable two or three-axis CNC
- Auto Geometry Engine
- Automatic diameter cutter compensation
- Two or three-axis circular interpolation
- Rotate
- Look – Program graphics with a single button push
- Linear interpolation
- Six modes of operation
- Color graphics with adjustable views
- Tool length offset with modifiers
- Advanced diagnostic routines
- Jog and Powerfeed in DRO mode
- Automatic return to ABS zero
- Incremental and Absolute position readout
- Inch/mm selectable
- Teach-in of manual moves.
- Alpha-numeric program names
- Scaling of print data
- Event comments
- Selectable Tool Path or Part Geometry programming
- Convenient canned cycles for all geometry
- Circular, rectangular or irregular pockets, islands and profiles
- Helix and thread milling routines
- Subroutine and copy of programmed events
- Mirror with selectable cutting order
- List step – graphics with programmed events displayed
- Conrad – one input for automatic corner radius
- Incremental and Absolute programming
- Program diagnostics
- CAD/CAM interface
- Math Helps with prompted, graphical interface
- Tool stepover adjustable for pocket routines
- Selectable ramp or plunge cutter entry
- Spreadsheet editing
- Global data change
- Clipboard to copy events between programs
- Trial run
- Real time run graphics with tool icon
- Access to networked drives
- Automatic file back up routine
- Program converters

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

- Three-Axis CNC
- TRAK Sensors
- Glass Scales for table and saddle (standard on quill)
- Remote Stop/Go Switch
- Offline Software
- Limit Switches
- Converters
- Power Drawbar
- Coolant Pump
- Flash Memory
- Auxiliary Functions – spray mist or coolant, spindle off, interface to a programmable rotary table or indexing head
- Halogen Worklamp