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newall



TRAK CNC

TRAK Model VMC Series

Heavy Duty, High Precision, Vertical Toolroom Machining Center

FEATURES

- Made in the USA
- Unique blend of a machining center with the flexibility of toolroom mill operation in DRO mode with X,Y & Z handwheels.
- East-to-use interface can be programmed by any machinist without need of a trained programmer.
- 16-tool carousel tool changer along with manual tool changes when additional tools are required.
- Bi-directional (shortest path) tool selection and adaptive toolpath operation for faster performance and extended tool life.
- Fully enclosed ANSI B11 compliant operation.
- Powerful, servo motors for rapid movement up to 1000 IPM.
- Continuous 10HP with peak 15HP power
- Uses the same, powerful RMX control as the TRAK DPM CNC bed mill series so machinists can move between machines with ease.



CNC CONTROL FEATURES

- The ProtoTRAK RMX is the world's most popular and powerful CNC control for small lot milling.
- Blends advanced technology with a natural user interface that is the easiest control to learn.
- Touchscreen with clear, uncluttered display allows you to zoom, pan, and rotate your drawings and 3D models.
- No codes needed as logical operation with few input keys and prompts are in understandable, plain language.
- Set-up your machining style through completely customizable defaults that will autofill for even faster programming.
- Powerful software automatically calculates missing data as you program.
- Adaptive toolpath keeps the load constant on the cutter to extend life.
- Easily mills arcs, rectangular/circular/irregularly shaped profiles/pockets/islands, threads, helixes.
- Easily program to engrave, tap, face mill, drill holes and bolt-holes including repeating, rotating, and mirroring steps.
- Fine-tune programmed feedrate and spindle speed on the fly during operation for perfect cut chips.
- Choose to start CNC run or use TRAKing which allows you to control the run by turning a handwheel. As you crank the machine starts cutting. Turn the handwheel forward, reverse or pause and the machine will move forward, backward or pause through the programmed run. Take control or give back control at any point during the CNC run.
- Work with up to six fixtures on the table at once.
- Save tool offsets in a library for faster set-up.
- Select end mill to helix, zig-zag (ramp) or plunge into material to extend life of cutter.
- Always on-screen graphic shows what is being programmed with each step.
- Shows video toolpath of how material will be cut prior to start of CNC run.
- Math helps and calculator will enter calculation directly into program.
- Program run-time clock shows machining time of programmed part.
- During CNC run a countdown clock tracks time to next tool change.
- Windows file manager for easy program loading/saving on five USB ports.
- Built-in programming assistance through diagrams, screen-shots and videos (with supplied headphones) that can all be viewed during programming.
- Optional converter for inputting DXF/DWG files or outputting CAM files.
- Optional offline software for programming away from machine control.
- Supports MTConnect protocols, components, and data tags.



SPECIFICATIONS

	<u>VMC5</u>	<u>VMC7</u>	<u>VMC10</u>
Table Size	15.8" x 27.6"	19.7" x 35.4"	19.7" x 44"
Travel (X, Y, Z)	20" x 16" x 20"	30" x 20" x 20"	40.8" x 20" x 20"
Spindle Taper	CAT 40 (opt. BT 40)		
Spindle Motor	10HP continuous (15HP peak)		
Spindle Speed Range	50-8000 RPM		
Spindle Center to Column	16.5"	18.25"	19.25"
Spindle Nose to Table (min/max)	3.5" / 23.5"		
Tool Carousel to Table	18"	17.5"	17.5"
Tool Carousel Capacity	16 tools		
Maximum Tool Weight (w/holder)	15 lbs.		
Maximum Tool Diameter	3.14"		
Maximum Workpiece Weight	1000 lbs.		
Electrics	208V, 3Ph, 83A (opt. 480V transformer, 3Ph, 41.5A)		
Rapid Traverse	400"/min (toolroom mode), 1000"/min (production mode)		
Operating Envelope (LxWxH)	78x121x107"	92x126x107"	106x126x107"
Net Weight	7300 lbs.	8400 lbs.	9900 lbs.

ACCESSORIES

- Chip Auger
- Electronic Handwheels
- CAT 40 Retention Knob (set of 16)
- Tooling Cart (w/preset tool, plate)
- Remote Stop/Go Switch
- Built-in Solid State Hard Drive
- KURT 6" Vise
- Worklight
- Automatic lubrication system

SOFTWARE

- Advanced software features with Verify
- Auxiliary Functions (programmable coolant & interface to programmable rotary table/indexer)
- Input DXF/DWG files
- Save as CAM files
- Convert to Parasolid 3D
- Offline Software

Lifetime toll-free phone support from factory technical service personnel on software and hardware.

Please feel free to contact us for pricing or if you have any questions.