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newall



TRAK CNC

TRAK Model DPM-RX Series Heavy Duty, High Precision, Vertical CNC Bed Mill

FEATURES

- Made in the USA
- Perfect blend and flexibility of a manual machine with the speed and precision of a CNC.
- Control can be programmed easily by any machinist without need of a trained CNC programmer.
- High precision ground ball screws on all axes.
- Electronically controlled, inverter driven spindle motor.
- Maximum rigidity from Turcite coated hardened & ground box ways, wide table saddle, and counter-weight supported head movement along column.
- Powerful, brushless servo motors for rapid movement up to 400 IPM and ultra fine 0.000003" encoder resolution.
- Quill handle and full sized, 2-speed handwheels for easy manual operation.
- Combines head and quill travel into one Z dimension on display.
- Long 24.25" Z-axis (up/down) ram travel with left/right tilting head.



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.
- Opt. converter for inputting DXF/DWG files or outputting CAM files.
- Opt. offline software for programming away from machine control.
- Supports MTConnect protocols, components, and data tags.



SPECIFICATIONS

	<u>DPM-RX2</u>	<u>DPM-RX3</u>	<u>DPM-RX5</u>	<u>DPM-RX7</u>
Table Size	9" x 49"	10" x 50"	12" x 50"	14" x 76"
Travel (X, Y, Z)	30.5" x 16" x 25.5"	31.5" x 17" x 26"	40" x 20" x 24"	60" x 23" x 24"
Quill Diameter (Travel)	3.4" (5")	4" (5")		4.6" (5.5")
Spindle Taper	R8 (NT 30 opt.)	NT 40 (CAT/BT opt.)		
Spindle Motor	3HP	5HP		7.5HP
Speed Ranges – inf. variable	40-600, 300-5000 RPM			
Spindle Center to Column	18.5"	20.5"	20"	24"
Capacity - Drilling	1"			
- Milling	3 inch ³ / min	5 inch ³ / min		7 inch ³ / min
- Tapping	3/4" – 10	1" - 8		
Head Swivel	L: 90° / R: 30°			
Electrics	220V, 3Ph, 27A	220V, 3Ph, 35A		220V, 3Ph, 42A
Table Load – max.	1320 lbs.		1760 lbs.	2200 lbs.
Rapid Traverse X&Y, Z	400"/min, 250"/min			
Operating Envelope (LxWxH)	94x103x92"	97x108x97"	103x132x102"	120x169x108"
Net Weight	3200 lbs.	4100 lbs.	4400 lbs.	6850 lbs.

ACCESSORIES

Automatic oil lubrication	Toolbox with tools and manuals	X & Z axes way covers
Power Drawbar	Work Lamp	Coolant System
Mist Coolant System	Chip Tray & Shield	Limit Switches (X,Y,Z)
Electronic Handwheels	Remote Stop/Go Switch	Tableguard w/Interlock
KURT 6" Vise		

SOFTWARE

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.