

TRAK VMC



COMPACT
STRONG
PRECISE
ACCURATE
CAPABLE
EASY

PORTABLE

Featuring the

ProtoTRAK RMX CNC

A STRONG, PRECISE, COMPACT, VERSATILE PRODUCTION MACHINE

www.trakmt.com/vmc2









- Compact 52" x 30.5" Footprint Fits Anywhere You Need
- Conversational Programming Easy Setup of Simple Jobs
- G-Code Compatible For Complex 3D Programs
- Bridge Construction For Rigidity and Precision
- Surprisingly Large XYZ Workspace 14" x 12" x 17"

POWERED BY THE PROTOTRAK RMX CNC



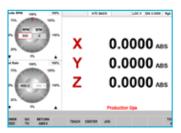
The ProtoTRAK RMX CNC gives you powerful capability not found anywhere else. You'll be amazed at how easy a capable CNC can be.



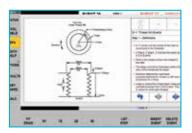
This uncluttered control panel features a keyed switch to help you assure that only qualified machinists can run the machine in Toolroom Ops.



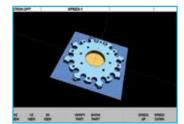
Touchscreen for an extraordinary user experience that keeps you working fast



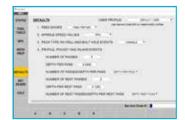
Powerful Features for **manual setup** in Toolroom Ops



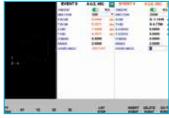
Enhanced ProtoTRAK Assistance – instructions at your fingertips



Powerful solid model **graphics** for Verify and Parasolid converters



Defaults teach the ProtoTRAK RMX your machining style



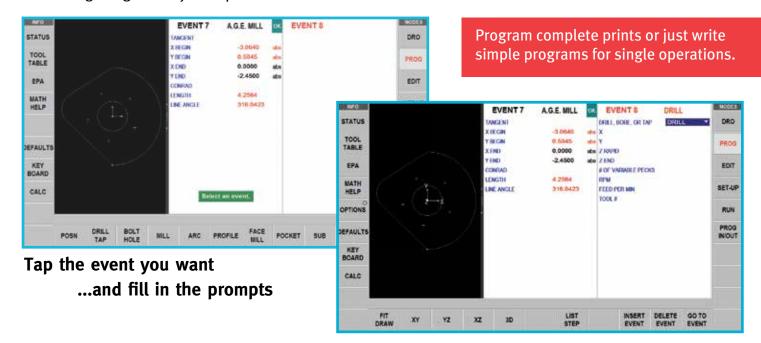
Auto Geometry Engine® software to fill missing data for you as you program



Easy, prompted programming **events** with graphics that update while you program

PROGRAMMING MADE EASY

Programming is a simple process of selecting the event and then describing the geometry from print data.



Defaults

Defaults customize the programming to your style. The prompts will autofill with the choices you make in Defaults, making programming even faster and easier.

Options

Press Options key while programming the event and you'll have choices for how the geometry is machined.

Canned Cycles

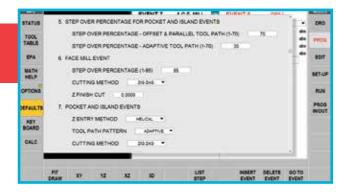
There are over 25 canned cycles that make it easy to program even complex shapes right on the shop floor.





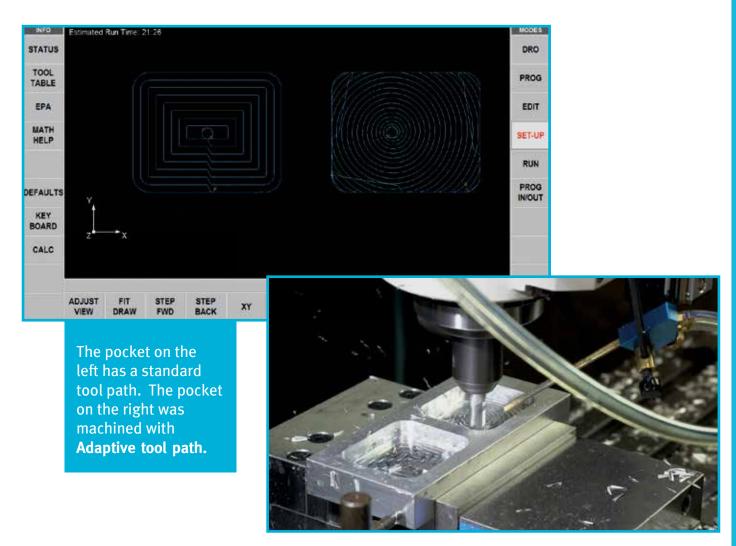


Adaptive ToolPaths



The Adaptive Tool Path works with the Defaults to:

- Provide state of the art toolpath generation for faster machining
- Keep the load constant on the cutter to extend tool life
- · Reduce wear and tear on the machine



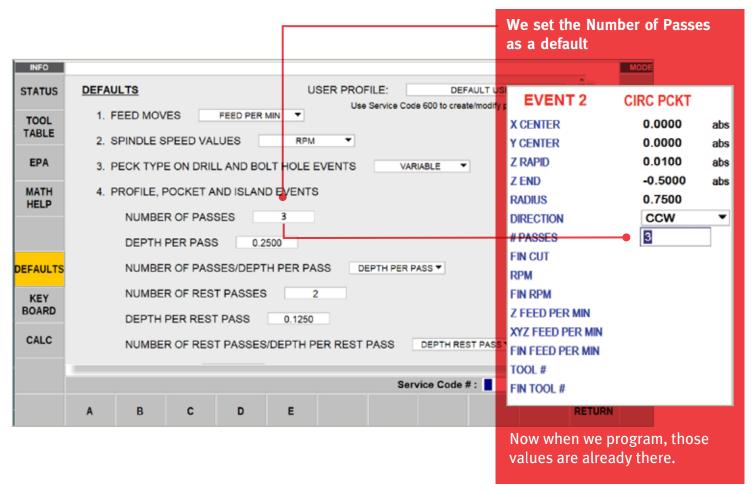
You have to see Adaptive to appreciate it. See our video at www.trakmt.com/VMC
Better yet, call for a demo.

MAKE IT PERSONAL WITH DEFAULTS

The ProtoTRAK RMX is the only CNC that you can mold to your style

You have a style. The work you do, the material you cut, the tooling you use, they all make up your style. The ProtoTRAK RMX is the world's only CNC that you customize to your style. You do this easily by setting Defaults.

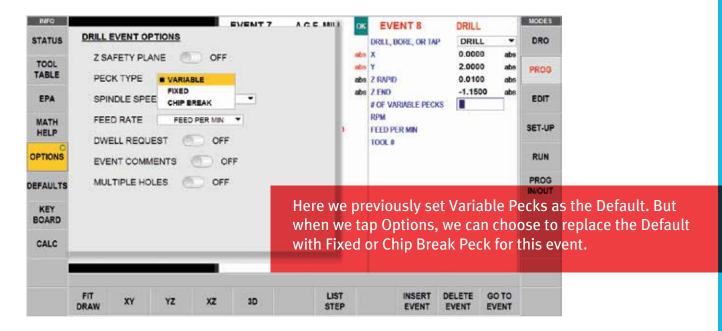
Setting Defaults makes programming even easier by loading in your preferences as you program. Once you select the event, your preferences are already there for you. If you're mentoring someone who is new to the craft, you can set the Defaults to help your student work within the parameters you define.



DEFAULTS make

Change Defaults whenever it suits you

You're not stuck with the settings you make. You can easily change the preferences by entering another value at the prompt or tapping Options. If you wish to set a new Default, simply select the Defaults Info Key and enter the preference.



You don't have to set every Default; we've set the most common ones here at the factory. But if you choose, you can use Defaults to:

Set spindle speed programming at RPM or Surface Speed.

Set Feedrate programming for Feedrate per Minute or per Tooth.

Set step-over percentages for Pockets and Face Mill Events.

Set Z entry as Plunge, Zig-Zag or Helical.

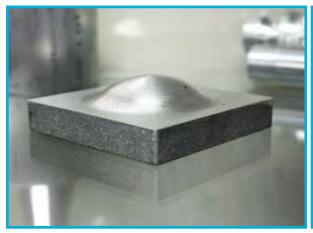
Choose between 2 or 3 axis CNC at startup...

...and more!

You will love how easy it is to work with Defaults and how much time they will save you in programming, but there is only so much we can show you on a piece of paper. See our website at www.trakmt.com/RMX or call for a Demo in your shop or our showroom. Or just give your TRAK Machine Tools Sales Rep a few minutes the next time he comes by. Chances are he has a Demo Box with him!

programming even easier.

FULL FEATURED 3-AXIS CNC MILL





3D surfacing

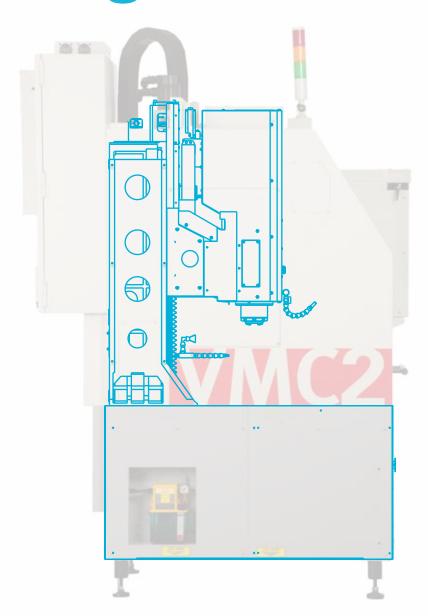
8 station tool changer

Ready for IIoT



The MTConnect option allows you to network machines, through either the ProtoTRAK's ethernet connection or a USB wifi adapter, enabling you users to collect machine data in your shop. MTConnect provides a standard structure for data across all your machines to eliminate confusion between proprietary formats. You can monitor machine status, receive notifications and analyze data throughout your machines' history.

Rigid & Precise



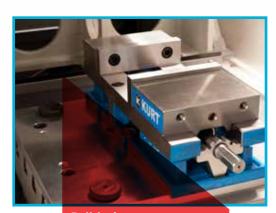
Compact bridge construction, with a short (horizontal) head projection and direct drive spindle.

X and Y-axis linear rails are precision grade and mounted with a heavy preload.

X, Y and Z-axis ball screws are pre-loaded, ground and precision grade.

Tool holders with patented BT30 pull stud to prevent tool holder bulging near the top.

High spindle tool retention force.



Ball locks to secure mounting plates built into the table



This minimal head projection significantly reduces the thermal expansion effects on the machine's Y-axis accuracy, especially when comparing parts that are run on a "cold" machine in the morning vs. "warm" machine later that day.

OPTIONS

CUSTOMIZE TO FIT YOUR NEEDS



VMC2 Vise:

Modified for the TRAK VMC2



Vise Stop:

 Includes mag base, 1", 2" and 3" extensions



Ball Lock Liners (8):

 For fixture plates. High and lower precision for use with primary and secondary locating holes on the VMC2 table

- Pallet Jack
- Tool Measurement Cart
- Memory Option
- Auxiliary Output
- Remote Stop-Go



Fixture Plate:

 Precision plate with primary liners, 18 x 15"



Tool Holders:

BT30, eight pieces of assorted sizes



Ball Lock Clamps:

Available in sets of four



Fixture Plate for Vise:

Includes liners, fence, and vise stop assembly



Pull Studs:

30 taper



Mobile Tool Cart:

Convenient and easy to move

Additional Options

- DXF converter
- Parasolid converter
- CAM Out converter
- Offline programming software
- Voltage change 220v to 440v
- Single phase option (reduces HP by 40%)
- Indexer ready kit
- External Delkin USB drive

SPECIFICATIONS

Overall Machine Dimensions:

- 30.5 x 52 x 101"
- 92" min height
- 2825 lbs / 3175 lbs shipped

Table Dimensions:

- 18 x 15"
- 4 tee slots at 63mm
- 500 lb max load
- Ball Locks[®] w/ 2250 lbs of hold down force @ 35 in/lb of torque

Travel:

- 14 x 18.6 x 17"
- 20.25" max spindle height
- 2.75" min spindle height
- 14" spindle center to column
- 600 in/min max rapid speed

Spindle:

- BT30 tool holder
- 2.2" spindle nose diameter
- 10,000 max RPM
- 3hp motor

Automatic Tool Changer:

- 8 tool capacity
- 2" max tool diameter
- BT30 retention knob

Air Requirements:

- 90 psi
- 2.5 CFM at 90 psi
- 10 SCFM

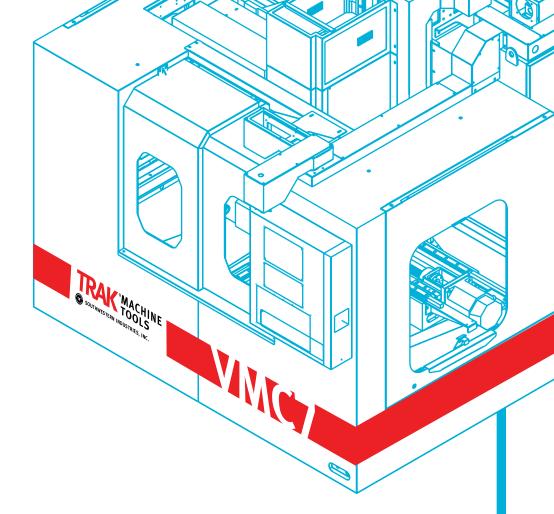


ProtoTRAK System Hardware:

- ProtoTRAK RMX CNC
- Three-axis CNC and DRO
- 15.6" LCD screen
- 4 USB 2.0 ports
- Built in LED status lights
- Uncluttered front panel
- · Beacon light
- Spindle speed override
- Coolant pump
- Ethernet port
- 15 gallon coolant tank
- Air blast

Software Features:

- Clear, uncluttered interface
- Prompted data inputs
- Plain language no codes
- Soft keys change with context
- Windows® operating system
- Inch/mm selectable
- Rigid tapping
- Reference to ball lock locations
- Absolute home location
- Canned cycles: pockets, profiles, bolt hole patterns, etc.
- Indexer compatible
- Toolroom vs Production ops



Get to know the new TRAK VMC2 featuring the ProtoTRAK RMX today! Visit www.trakmt.com/VMC2

Call for a demo in your shop at 800-421-6875

Visit one of our showrooms nationwide www.trakmt.com/locations

Sign up for an Open House or Trade Show event near you: www.trakmt.com/events





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