

eXpertMill VMC-0600

the perfect CNC mill for making your students CNC experts!



The **eXpertMill VMC-0600** is the latest addition to Intelitek's line of benchtop CNC training and industrial prototyping machines. With this machine, Intelitek continues its track record of setting new standards in automation technology.

The **eXpertMill** provides exceptionally higher performance at a price significantly lower than other machines in its class.

Key design features include a cast aluminum base and profile linear guide ways that provide the rigidity, speed and accuracy of larger industrial machines.

The **eXpertMill** offers simultaneous three- or four-axis machining along with features and options usually found only on full-scale machining centers. Full three-axis tool path verification, standard EIA RS-274-D G&M code programming, 1 hp spindle power, and 100 ipm (2540 mm/min) rapid traverse and machine cutting rate make the **eXpertMill** the ultimate machine for CNC training and prototyping.

Optional features include a 200 ipm (5080 mm/min) high performance controller, 4- and 12-position automatic tool changers, and a 4th axis rotary positioner.

Combined with **LearnMate**, Intelitek's e-learning curriculum and management system, and **CNCMotion**, Intelitek's full-**eXpertMill** featured 3D simulation and control software, the package gives instructors powerful tools for turning students and CNC novices into expert CNC machinists, technicians and engineers.

For more information on how the **eXpertMill** can meet your CNC training needs, contact Intelitek or your local representative.

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eXpertMill VMC-0600

Specifications

Construction

- Cast aluminum machine base
- Fully enclosed chip tray
- Aluminum cross slide, 3/8" - 16 matrix

Linear motion system

- Ball bearing linear guide rail system
- Zero backlash leadscrew on each axis

Axis travel

- X Axis: 304 mm (12")
- Y Axis: 152 mm (6")
- Z Axis: 241 mm (9.5")
- Open Height: 279 mm (11")

Work area

- Nickel plated table size: 436 mm x 127 mm (17" x 5")
- VMC Style 3/8 - 16 Matrix (1")

Spindle

- Power: 1 hp, 746W
- Motor type: DC permanent magnet
- Dual speed range: Low 0-3000 rpm / High 0-6000 rpm
- Throat: 139 mm (5.5")

Accuracy

- Repeatability: 0.0127 mm (0.0005")
- Resolution (half step): 0.0032 mm (0.00013")

Axis drive motors (base machine)

- Feed rate: 2-2540 mm/min (0.1-100 ipm)
- Rapid traverse: 2540 mm/min (100 ipm)
- Stepper motors: 97 Ncm (137 oz.in.), 200 step/rev

Axis drive motors (high performance controller)

- Feed rate: 2-5080 mm/min (0.1-200 ipm)
- Rapid traverse: 5080 mm/min (200 ipm)
- Stepper motors: 179 Ncm (253 oz.in.), 200 step/rev

Dimensions

- Width: 889 mm (35")
- Depth: 685 mm (27")
- Height: 850 mm (33.5")

Weight (Approximate)

- Machining Center: 115 kg (250 lbs)
- Shipping: 149 kg (325 lbs)

Power Requirements

- Int'l: 220 VAC (+5%/-10%), 50-60 Hz, 8A
- USA: 110 VAC (+5%/-10%), 50-60 Hz, 15A

Interfaces

- PCI connections to PC and robot controller
- Illuminated robotic interface 8 inputs 8 outputs

Safety

- Certified for CE safety compliance.

CNCBase: programming and control software

A CNC control software package that provides an intuitive tool for programming and operating the eXpertMill VMC-0600. The software accepts standard Fanuc-compatible EIA RS274D G&M codes.

CNCMotion: simulation software (optional)

Interactive 3D graphic simulation software integrated with CNCBase machine control software for dynamic simulation and graphic tracking of the eXpertMill VMC-0600.



optional 12-position tool changer (shown here) and 4-position tool changer

See our website for details:
www.intelitek.com

Specifications subject to change without prior notice.

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444 East Industrial Park Drive, Manchester, NH 03109-5317, USA
Tel: (603) 625-8600, (800) 777-6268 Fax: (603) 625-2137
email: info@intelitek.com website: www.intelitek.com

Member of:

