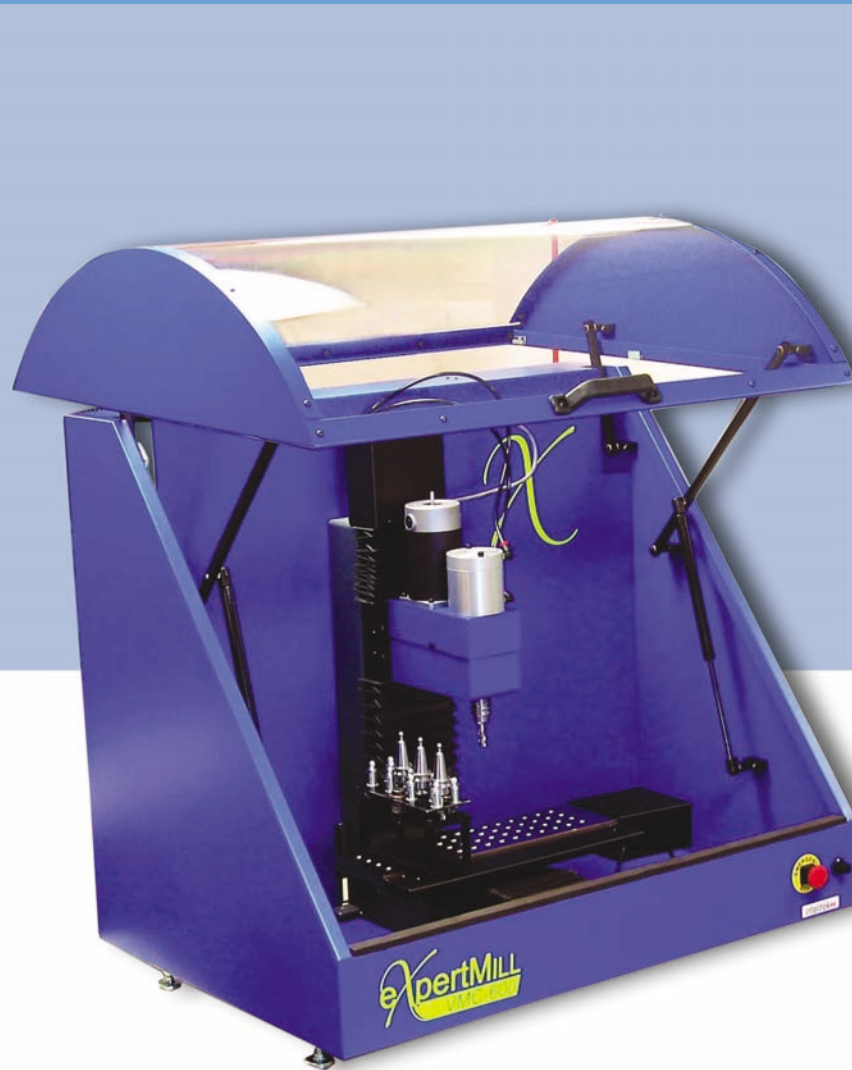


eXpertMill VMC-0600

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-featured 3D simulation and control software, the **eXpertMill** 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.

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

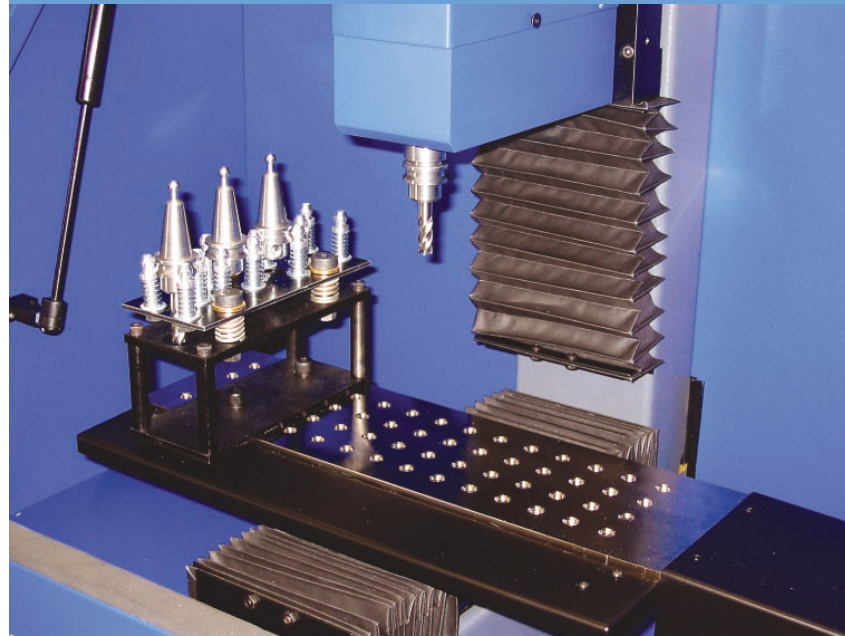
- Certified for CE safety compliance.

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

See our website for details:
www.intelitek.com

Member of:



intelitek

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