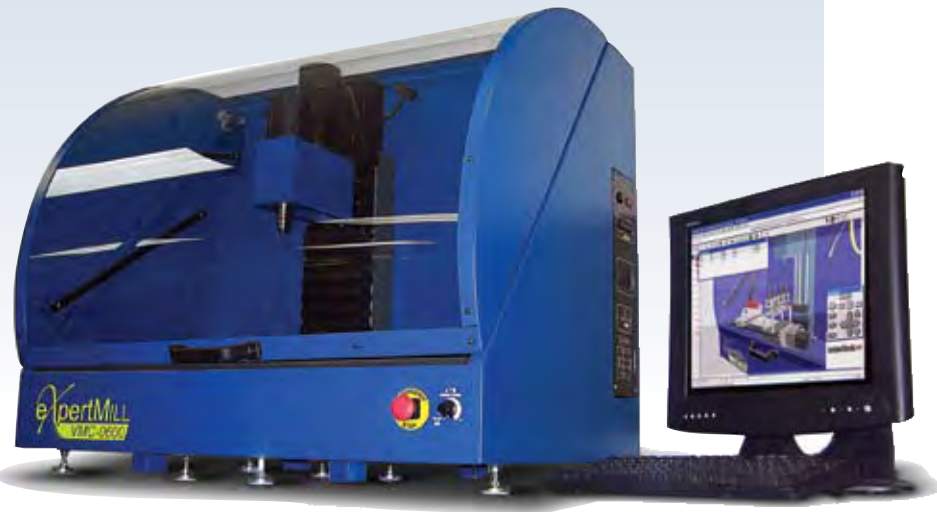


# eXpertMill VMC-0600

the perfect CNC Mill for making your students CNC experts!



eXpertMILL  
VMC-0600

With 25 years of experience and more than 13,000 machines installed worldwide, intelitek has emerged as the leader in tabletop and benchtop CNC machining.

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The **eXpertMill VMC-0600** is the latest addition to intelitek's line of benchtop CNC training, prototyping and production 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 75 ipm (1905 mm/min) rapid traverse and machine cutting rate make the **eXpertMill** the ultimate machine for CNC training and prototyping.

Optional features include a 150 ipm (3810 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 and Fanuc™ simulator, the **eXpertMill** package gives instructors powerful tools for making 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:	12"	(304 mm)
Y axis:	6"	(152 mm)
Z axis:	9.5"	(241 mm)
Open Height:	11"	(279 mm)

### Work area

Nickel-plated table: 17" x 5" (436 mm x 127 mm)  
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:	5.5" (139 mm)

### Accuracy

Repeatability:	0.0005" (0.0127 mm)
Resolution 1/2 step:	0.00013" (0.0032 mm)

### Axis Drive Motors (base machine)

Feed rate:	0.1-75 ipm (2-1905 mm/min)
Rapid traverse:	75 ipm (1905 mm/min)
Stepper motors:	137 oz.in. (97 Ncm), 200 step/rev

### Axis Drive Motors (high-performance controller)

Feed rate:	0.1-150 ipm (2-3810 mm/min)
Rapid traverse:	150 ipm (3810 mm/min)
Stepper motors:	253 oz.in. (179 Ncm), 200 step/rev

### Dimensions

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

### Weight (approximate)

Machining center:	250 lbs (115 kg)
Shipping:	325 lbs (149 kg)

### Power Requirements

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

### Safety Features

CE certified for safety compliance  
Lexan safety shield with interlock switch  
Emergency Stop switch on front panel and on keyboard  
End of travel limit switches and stops on each axis  
Illuminated axis limit switch LED indicator

Partners:



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### CNCBase: programming and control software

A CNC control software package that provides an intuitive tool for programming and operating the eXpertMill. The software accepts standard Fanuc-compatible EIA RS-274D 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, with an added Fanuc™ controller option.



optional 12-position tool changer

### Computer System Requirements

Pentium IV
Windows® 2000/XP/Vista
256 MB RAM minimum
40 MB available HD space
One available PCI slot
CD-ROM
VGA graphics and monitor
Mouse

### System Interfaces

PCI bus to host computer
Illuminated robotic interface with 8 inputs, 8 outputs
Illuminated spindle power indicator
Illuminated axis power indicator
Keylock on electronic control box

### Optional accessories

12-tool ATC
4-tool ATC
ISO tool holder package
Rapid change tooling
4th axis rotary table
Pneumatic door opener
Pneumatic vise
Machining bench with drawers
Fanuc™ simulation
spectraCAM CAD / CAM package
CNCMotion simulation software
LearnMate curriculum



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