

# eXpertMill VMC-600



***the perfect  
CNC mill  
for making  
your students  
CNC experts!***

The **eXpertMill** VMC-600 is the newest in the line of Intelitek's benchtop CNC training and industrial prototyping machines.

Intelitek has earned its reputation as a leader in factory automation, with more than 20 years experience and over 12,000 CNC machines combined with an equal number of SCORBOT robots installed in education and industry worldwide.

The **eXpertMill** VMC-600 is a full three/four axis simultaneous CNC machine. Standard configuration includes profile linear guide ways, and the **eXpertMill** offers features and options available on any full scale machining center. The optional tool changer and 4th axis rotary positioner, full three-axis tool path verification, standard EIA RS-274-D G&M code programming, 1 hp spindle motor, 100 inch per minute rapid traverse and machine cutting rate make the **eXpertMill** the ultimate training and prototyping machine.

Using LearnMate, Intelitek's e-learning curriculum and management system, and CNCMotion, Intelitek's full-featured 3D simulation and control software for the VMC-600, equips instructors with powerful tools to take inexperienced CNC students and novices, and give them the skills to become expert CNC machinists, mold makers, tool makers, die makers and engineers.

Find out how **eXpertMill** can fulfill your CNC technology training needs. Contact Intelitek or your local representative for further details.

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# eXpertMill VMC-600



## **CNCBase: programming and control software**

A CNC control software package that provides an intuitive tool for programming and operating the eXpertMill VMC-600. 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-600.

*Specifications subject to change without prior notice.  
Actual product may differ from the one shown here.*



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## **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

### **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**

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**

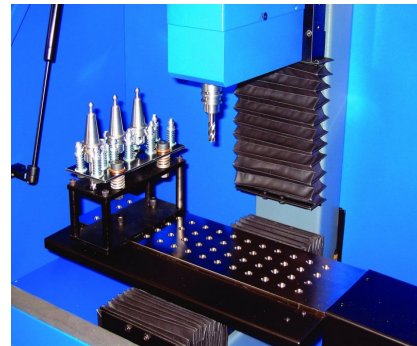
Int'l: 220 VAC (+5%/-10%), 50-60 Hz, 8A  
USA: 110 VAC (+5%/-10%), 50-60 Hz, 15A

### **Interfaces**

PCI connections to PC and robot controller  
Robotic interface 8 inputs 8 outputs

### **Safety**

Certified for CE safety compliance.



*optional 4-position tool changer*