

November 26, 2020

**PREMIUM MACHINING SOLUTIONS LTD.**

440 Tapscott Road, Unit 15  
Scarborough, Ontario M1B 1Y4

Attention: Mr. Douglas Zelaya

**EUMACH DVM-2021 DOUBLE COLUMN SIMULTANEOUS 5-AXIS MACHINING CENTRE**

Dear Douglas,

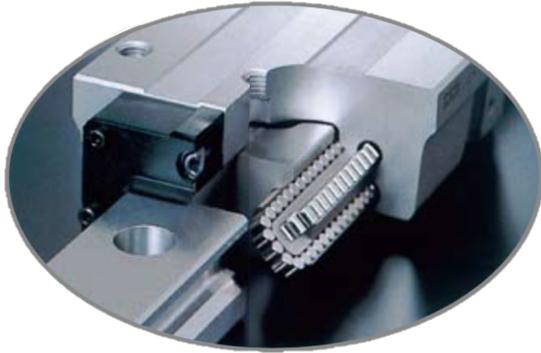
Thank you for the opportunity to quote the **EUMACH DVM-2021 DOUBLE COLUMN SIMULTANEOUS 5-AXIS MACHINING CENTRE** for your facilities in Scarborough, Ontario.





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## **WELL DESIGNED MACHINE STRUCTURE AND MAXIMUM RIGIDITY & DYNAMICS**



Heavy duty cross section roller linear guides on X /Y /Z axis to support heavy duty machining work and precision high speed performance. 4 rows of roller bearing support load in all directions.



X-Axis:

Rigid machine base with 4 slideways: 2 sets of heavy duty cross section roller guide and 2 sets of linear guide, ensure heavy and speed cutting.

This design ensures a capability of loading up to 30 tons (DVM - 5035), and still keeps the best dynamic accuracy.

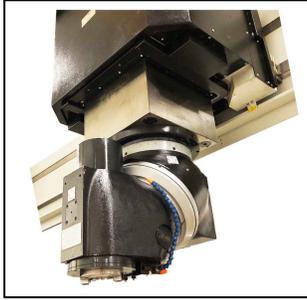


Y-Axis:

3 point support slideways on Y axis. 2 guide ways on top and 1 in front. Heavy duty cross section roller guide ways provide high accuracy and rigidity to support high speed and heavy duty cutting.



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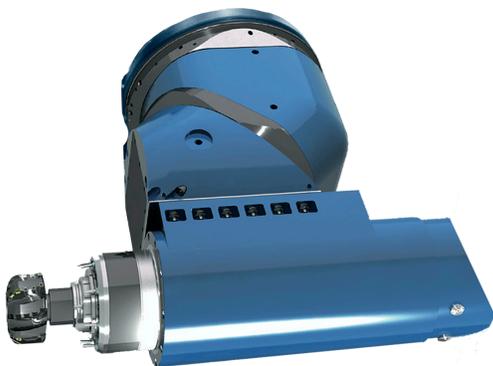
The standard ram for Z axis is 380x380 mm and made of special casting, which provides better sturdy cutting capability. The quoted machine has the higher rigidity 420mm square ram for high speed 5-axis machining support.



The front door is designed for ease of workpiece loading/unloading, and daily maintainace and cleaning.



Clean and spacious enclosure ensures easily handling of large and heavy workpiece.



Simultaneous 2-axis milling head with HSK-A63 24,000 rpm spindle.

## **MACHINE SPECIFICATIONS**

### **CAPACITY**

X-axis	2150mm (84.64")
Y-axis	2200mm (86.61")
Z-axis	1100mm (43.3")
distance between columns	2130mm (83.86")
distance from table top to spindle nose	from 130 to 830mm (from 5.12" to 32.67")
distance from table top to floor	915mm (36")
X-axis slide way system	two roller ways + two linear ways
Y-axis slide way system	three roller ways (two on top, one in front)
Z-axis slide way system	420mm (16.53") square ram with hardened + ground box ways with Rulon liners

### **TABLE**

size	2000 x 1700mm (78.74" x 66.93")
maximum table load	8000kg (17637 lbs.)
t-slots	22

### **2-AXIS MILLING HEAD SPINDLE**

taper	HSK-A63
maximum speed	24000 rpm
motor power	34kW (45 hp)
motor torque	91Nm (67 ft-lbs)

### **FEED RATE**

maximum cutting feed rate X/Y/Z axis	8m (315") per minute
rapid traverse X/Y/Z axis	15/15/10m (590"/590"/394") per minute

### **AUTOMATIC TOOL CHANGER**

tool shank	HSK-A63
tool storage capacity	60 pockets
maximum tool diameter with adjacent tools	110mm (4.33")
maximum tool diameter without adjacent tools	200mm (7.87")
maximum tool length	350mm (13.78")
maximum tool weight	15kg (33 lbs.)
tool change time	8 seconds

### **ACCURACY**

Positioning accuracy X/Y/Z axis ISO 230-2	+/- 0.02mm (0.000787")
Repeatability X/Y/Z axis ISO 230-2	0.015mm (0.000591")

### **GENERAL**

floor space requirements	6890 x 4955mm (272" x 196")
machine weight	24000kg (52,910 lbs.)



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**STANDARD + INCLUDED EQUIPMENT**

Heidenhain TNC 640 control  
Heidenhain KinematicsOpt software package  
2-axis (A + C) 0.001° tilting milling head with 24000 rpm motor spindle  
full enclosure glazed window type splash/chip guarding  
20bar through the spindle coolant system  
Renishaw RTS radio controlled tool probe measuring system  
Renishaw RMP60 radio controlled work piece probe measuring system  
linear scale feed-back system on X/Y/Z axes  
screw type & chain type chip conveyors + cart  
programmable coolant system  
automatic lubrication system  
spindle air blast system  
working light  
alarm light  
m.p.g. (manual pulse generator = electronic hand wheel)  
indication light for dwell and end of job  
leveling bolts & pads  
machine & control manuals  
toolbox with spanners & wrenches  
transformer

**EUMACH DVM-2021 5-AXIS MACHINING CENTRE PACKAGE PRICE:**

**US \$640,000**

**OPTIONAL 120 POCKET TOOL MAGAZINE:**

**US \$40,000**

## TERMS AND CONDITIONS

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### **The pricing**

Pricing shown is in US funds.

The above pricing is F.O.B. Masteel in Oakville, Ontario.

Applicable taxes are extra.

CSA approval is included in the pricing.

### **The payment terms**

30% with order, 60% before pick-up, 10% 30 days after delivery.

### **Warranty**

Two (2) years on parts & labour.

### **Delivery**

To be confirmed at the time of purchase.

#### **\*CUSTOMER'S RESPONSIBILITY**

- Pick-up the machine at Masteel in Oakville, Ontario.
- Off load the machine from the truck at the customer's site.
- Provide all lifting equipment to move the machine into place for assembly.
- Provide a single concrete slab level foundation per the machine foundation requirements.
- Provide power to the machine by a certified electrician.
- Provide hydraulic + way lube oil plus coolant fluid for the machine.

#### **\*MASTEEL'S RESPONSIBILITY**

- Assemble / level the machine on the customer's shop floor and anchor the machine to the customer supplied foundation.
- Complete the machine installation and accuracy test.
- One day of basic machine operator training.

Pre-Start Health and Safety Review (PHSR) is the responsibility of the customer and is not included in the above pricing.

This proposal is valid for thirty (30) days.

We look forward to working with you on this project.

Sincerely,

**MASTEEL AMERICA CORPORATION**

Ron Nater

Manager, Eastern Canada

phone: 647.270.4434

email: [ron@masteels.com](mailto:ron@masteels.com)

website: [www.ronnater.ca](http://www.ronnater.ca)