

February 20, 2024

**CIM TECHNOLOGIES INC.**

31965 Schoolcraft Road  
Livonia, Michigan 48150-1810, USA

Attention: Steve Fox / 734-513-2525 / fox@cnc-mills.com

**LEADWELL V-40iT 5-AXIS MACHINING CENTRE**

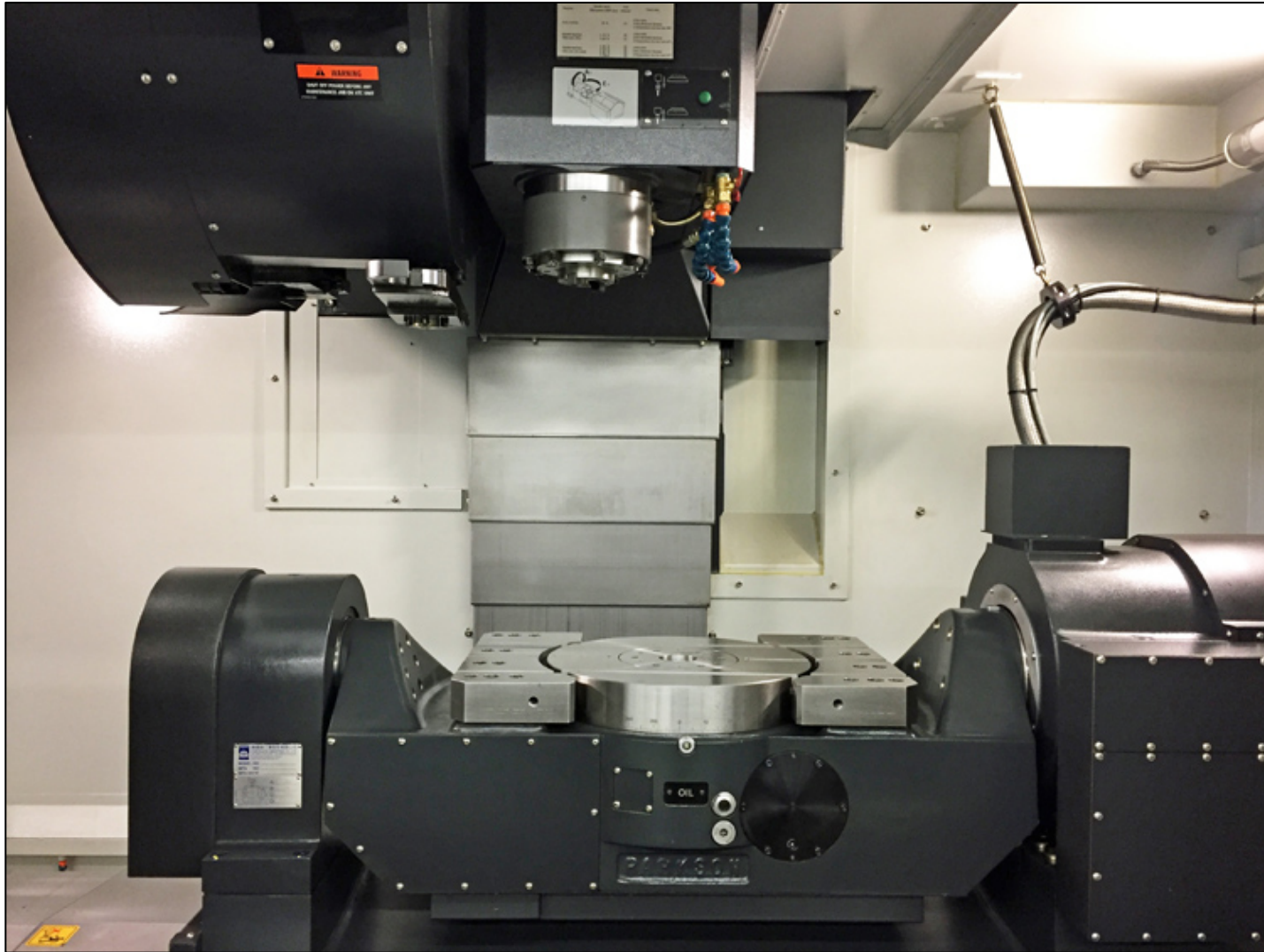
**SERIAL NUMBER L2TAD0129**

Dear Steve,

Thank you for the opportunity to quote the **LEADWELL V-40iT 5-AXIS MACHINING CENTRE** in response to your request through machinetools.com.



**LEADWELL V-40IT VERTICAL 5-AXIS MACHINING CENTRE**





## **THE ADVANTAGES OF 5-AXIS MACHINING**

- reduced machining time by using a flat bottom end mill and maintaining perpendicularity to the complex surface you can step-over with the full cutter diameter - thereby substantially reducing the required number of passes across the full surface (which also applies to side milling angled surfaces)
- better surface finish by using a flat bottom end mill to maintain perpendicularity to the complex surface which can also eliminate ribbing caused by ball nose end mills
- eliminate multiple set-ups required to reposition the work piece for complex angles + surfaces (and eliminate multiple set-up errors)
- eliminate costly tooling and fixtures required to hold the work piece
- eliminate manual mill work and hand work required to clean up and polish rough surfaces
- machine complex part geometries that are otherwise possible - including holes required to be normal to a complex surface

## **MACHINE FEATURES**

- the Leadwell V-40iT optimally concentrates the machining process for multi-face, intricately shaped work pieces and some difficult work piece positions where 3-axis machines cannot reach such as undercutting
- for depth mould the Leadwell V-40iT can still keep high efficiency machining by setting a suitable angle of tool, thereby shortening the tool holding length
- avoiding accumulative error from series machining procedure decreasing total cutting time while achieving required high speed high accuracy high efficiency
- 3-axis programs can still be run under constant position set-up for A/C axis without any cutting interference
- high rigid cast iron construction with closed type design
- stable machine design supported by big span saddle and foundation
- without counter weight enhance the machine accuracy on mould making as well as avoid vibration
- Z-axis transmission end fixed as well as ball screw pretension which enables to reduce operating temperature

## **MACHINE SPECIFICATIONS**

### **TRAVEL**

X-axis	33"
Y-axis	25"
Z-axis	19.2"
X/Y/Z-axis feed motor	5.4 hp
distance from table to spindle nose	1.9"-21"
distance from column front to spindle centre	25"
axis guide ways	linear roller for high speed + high accuracy + high torque machining

### **TABLE**

table diameter	13.8"
table fixture plate	15.75" x 19.68"
maximum load capacity	200kg from 0° to 45° 100kg from 60° to 90°
tilting angle range	from +40° to -120°
t-slot width	12mm
height from floor to table top	48"
brake torque	35kg/cm <sup>2</sup>

### **SPINDLE**

spindle nose	CAT#40
spindle bearing inner diameter	2.75"
spindle power S1-100% (S6-40%)	20.1 hp
spindle torque	51.7 ft-lbs
maximum speed	12,000 rpm
transmission	H.T.D. belt
tool clamping force	1870 lbs.



### **FEED RATE**

X/Y-axis rapid feed rate	1417" per minute
Z-axis rapid feed rate	792" per minute
X/Y/Z-axis maximum cutting feed rate	394" per minute
A/C-axis rapid feed rate	25 rpm

### **AUTOMATIC TOOL CHANGER**

type	arm
tool shank	CAT#40
number of tool pockets	30
maximum tool diameter with adjacent tool	3.15"
maximum tool diameter with adjacent empty pockets	4.3"
maximum tool length	9.8"
maximum tool weight	15.4 lbs.
tool-to-tool change time	1.8 seconds

### **ACCURACY**

positioning accuracy / repeatability	±0.00039" / 0.00028"
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### **GENERAL**

machine dimensions (length x width x height)	151.2" x 86.6" x 107"
machine weight	15,432 lbs.
electrical requirements	400 volt / 3-phase



### **STANDARD AND INCLUDED EQUIPMENT**

- Fagor 8065 POWER 5-axis simultaneous control
- linear + rotary scales for high accuracy
- belt type chip conveyor with built-in auger type chip conveyor
- work light
- alarm light
- heat exchanger
- rigid tapping
- remote manual pulse generator (MPG = electronic hand wheel)
- through tool air blast
- surrounding coolant system (coolant ring)
- 300 psi coolant through the spindle
- wash down system
- spindle oil cooler
- spindle air purge
- Renishaw TS-27 tool measuring probe

**SPECIAL PACKAGE PRICE: \$169,900 US**

**FOR THE ABOVE SERIAL NUMBERED STOCK MACHINE ONLY**

**\*FAGOR CONVERSATIONAL PROGRAMMING FEATURES:**

**We Made It 1-2-3-4 EASY!**

**1**  
Select your cycle of choice

**2**  
Fill in the cycle variables directly from blueprint in seconds

**3**  
Create your Profile if necessary instantly

**4**  
Simulate or Execute utilizing HD Graphics

You can choose from a number of predefined cycles, from SIMPLE to the most COMPLEX: Pocket Milling, Facing, Profile Milling, Boss, Drilling, Tapping Boring...and many more for Milling. Facing, Turning, Taper, Grooving, Threading, Profiling...and many more for Turning.

*Fagor Automation...Adapting to your World*

**FAGOR**  
[fagorautomation.us](http://fagorautomation.us)  
 Chicago | Dallas | Florida | Los Angeles | Montreal | Atlanta | Toronto  
 For more information: 800-4A-FAGOR or info@fagor-automation.com

CNC Systems | Digital Servo Motors & Drives | Feedback Systems | DRO Systems | Motion Control Systems

**\*FAGOR 8065 REMOTE SUPPORT PROGRAM:**

**FAGOR Remote Support Program**

Did you know that a Fagor Automation engineer can remotely connect to your CNC controller and assist in 'machine-down' issue diagnostics, troubleshooting a tooling problem, or even provide programming assistance? This service is free during your system's warranty<sup>1</sup> period, and is now available for a fee (one-time or annual programs are available), for the life of your Fagor CNC Controller.



We're so confident that our engineer can resolve your issues remotely, that we'll give you a 20% discount on any subsequent and required onsite service rates if we can't fix it remotely.<sup>2</sup>

**Post Warranty Remote Support Pricing**

**One-Time Only Agreement**

There will be a connection fee of \$100 CAD, which includes one hour of service/support. Each additional hour will be billed at \$60 CAD...there is a 2-hour minimum.

**Ongoing/Annual Agreement**

There will be a monthly recurring payment of \$80 CAD for a single machine, \$130 CAD for 2 machines, \$180 CAD for 3 machines, or \$220 CAD for 4 machines, at a single site (for more than 4 machines at a single site, please contact Fagor service for Special Pricing). This will include 2 support sessions per month, per machine, with a maximum of 4 hours support, per session. Additional hours of support will be billed at \$60 CAD. All software updates and upgrades (where possible) will be free for any machine(s) under an annual remote service agreement. Sessions are non-transferable to other machines...support is tied to the registered serial number(s).

**Contact:** Fagor Service Department  
**Phone:** (905) 670 7448  
**Email:** [service@fagorautomation.on.ca](mailto:service@fagorautomation.on.ca)

**Request Fagor Remote Support**

Company Name: \_\_\_\_\_

Primary Site Address: \_\_\_\_\_

Fagor CNC Controller: 8060 8065 8070

Machine Type: Mill Lathe VMC Other

Programming: G-Code Conversational

Number of Machines under Agreement: \_\_\_\_\_

Duration of Agreement: One-Time Only  
 Ongoing/Annual Agreement

Payment Method: Fagor Account Terms

Credit Card: VISA MasterCard

Contact Person: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

<sup>1</sup>Warranty period for domestically purchased CNC systems is 2 years from registration date. Warranty for imported machines is 1 year from completion of the install.

<sup>2</sup>Requires current enrollment in an online service agreement. Normal service rate pricing will apply, to obtain 20% discount. No other discounts will apply. Discount applies to labor hours only. Travel hours will be billed accordingly, without discount. Travel expenses, hotel accommodations, rental car, etc. will be billed at actual costs.





## TERMS AND CONDITIONS

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### **The pricing**

The shown pricing is in US Dollars F.O.B. Masteel Oakville warehouse and *only applies to the quoted stock machine*. Applicable duties and 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**

Twelve (12) months.

### **Delivery**

Stock, *subject to prior sale*.

### **Customer's responsibility**

Provide a single concrete slab level foundation per the machine foundation requirements, power to the machine by a certified electrician and hydraulic + way lube oil plus coolant for the machine.

### **Masteel's responsibility**

Assemble / level the machine on the customer's shop floor, complete the machine installation and accuracy test and one day of basic machine operator training.

*Please note that this quote is subject to change without notice.*

Sincerely,

**MASTEEL AMERICA CORPORATION**

Ron Nater  
Manager, Eastern Canada  
647.270.4434 / [ron@masteels.com](mailto:ron@masteels.com) / [www.ronnater.ca](http://www.ronnater.ca)

