October 19, 2021

ABF MANUFACTURING GROUP
6750 Professional Court
Mississauga, Ontario L4V 1X6

Attention: Mr. Abdulsamad Panchbhaya

U'CHINE UDM-3212 DOUBLE COLUMN VERTICAL MACHINING CENTRE

Dear Abdul,

Thank you for the opportunity to quote the **U'CHINE UDM-3212 DOUBLE COLUMN VERTICAL MACHINING CENTRE** for your facilities in Mississauga, Ontario.

www.masteel.ca / www.masteels.com

SINGLE CAST PIECE BRIDGE (CROSS BEAM & COLUMNS) CONSTRUCTION

7490 MacDonald Road, Unit 120, Delta, British Columbia V4G 1N2, 800.913.4434
854 78 Avenue, Edmonton, Alberta T6P 1L7, 780.466.4693
940 Winston Churchill Boulevard, Oakville, Ontario L6J 7X5, 905.845.4434

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SPECIFICATIONS

TABLE

table size	3000 x 1100mm / 118.1” x 43.3”
t-slots	22
maximum load capacity	4500kg / 9,920 lbs.

TRAVEL

X-axis	3200mm / 126”
Y-axis	1200mm / 47.24”
Z-axis	760mm / 29.9”

GUIDE WAYS

X/Y-axis	linear roller type
Z-axis	box

SPINDLE

spindle taper / type	CAT#40 / direct drive
spindle servo motor	15-18.5kW / 20-24.8 hp
maximum spindle speed	12,000 rpm

DISTANCES

between columns	1300mm / 51.18”
from spindle nose to table top	from 200mm to 960mm / from 7.87” to 37.8”

FEED RATES

rapid X-Y-Z-W-axis per minute	20m-20m-15m / 787”-787”-590”
cutting X-Y-Z-W-axis per minute	8m-8m-8m / 315”
minimum increment per minute	0.001mm / 0.00004”

AUTOMATIC TOOL CHANGER

number of tool pockets	60
maximum tool diameter with adjacent tools	125mm / 4.92”
maximum tool diameter without adjacent tools	200mm / 7.87”
maximum tool length	350mm / 13.78”
maximum tool weight	15kg / 33 lbs.

COOLANT & LUBRICATION

coolant tank capacity	240l / 63.4 US Gallon
hydraulic oil tank capacity	70l / 18.5 US Gallon
lubrication oil tank capacity	8l / 2.1 US Gallon

MISCELLANEOUS

power required	220V/3 phase/40kVa
compressed air	5-8kg/cm^2
hydraulics	70kg/cm^2
machine weight	21000kg / 46,297 lbs.

STANDARD + INCLUDED EQUIPMENT

- Fagor 8065* or Fanuc 0*i*MF Plus control
- programmable coolant system
- 20bar through spindle coolant system
- spindle air blast system
- water/air gun for part/table cleaning with separate water pump
- automatic lubrication system
- glass window type full chip/coolant splash guard enclosure (sides + top)
- work light
- status alarm/dwell/end of job light
- leveling bolts & pads
- two chip augers + chain type chip conveyor
- tool box with spanners & wrenches
- manual pulse generator (M.P.G. = electronic hand wheel)
- machine inspection lists
- operator manual
- control manuals + circuit diagram
- auto power off
- RS-232C interface
- USB interface
- spindle coolant system
- hydraulic system
- heat exchanger for electrical cabinet

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***FAGOR 8065 CONTROL WITH 15" HIGH RESOLUTION COLOUR LCD MONITOR**

- RS232 / Ethernet / USB interface ports
- collision detection
- retrace function
- 200 user definable M functions
- feedrate in inverted function of time
- linear/helical/circular/cylindrical/polar coordinates
- mirror image, scaling, coordinate rotation
- optional telediagnostics for remote monitoring
- custom macro programming
- g-code programming with on-screen help feature
- DXF file upload for conversational programming cycle
- tool life monitoring + tool inspection
- simulation with execution time estimate
- back ground programming + editing
- optional stop/block skip function
- 2GB program capacity with 2GB compact flash memory
- high speed machining mode with up to 200 blocks look-ahead, 1 ms block processing time
- engraving in X/Y plane + engraving along 4th axis rotary axis in Y/A plane if 4th axis is installed
- additional 20 offsets, unlimited programmable offsets within program
- g-code generation through icon based conversational programming including 3D pocket with island
- automatic tool length calibration finds the tool length automatically
- inside/outside taper threading/boring cycle
- Masteel quick helical taper boring or helical taper threading interpolation programming
- free off-line programming software on the customer's computer
- Fagor remote support program (allowing Fagor to remotely connect to your machine through **Team**Viewer to assist in "machine-down" diagnostics, trouble shooting tooling problems and provide programming assistance - all at no charge during the warranty period)

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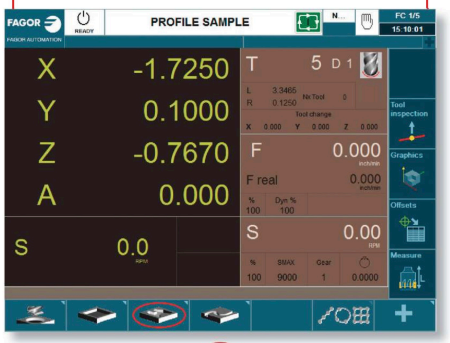
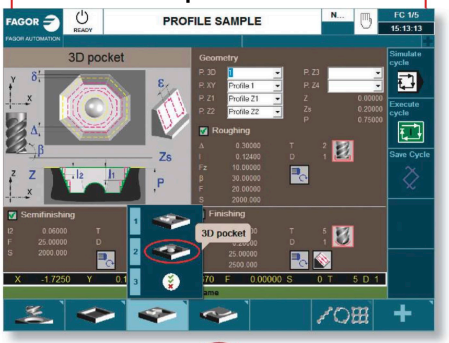
*FAGOR CONVERSATIONAL PROGRAMMING FEATURES:

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

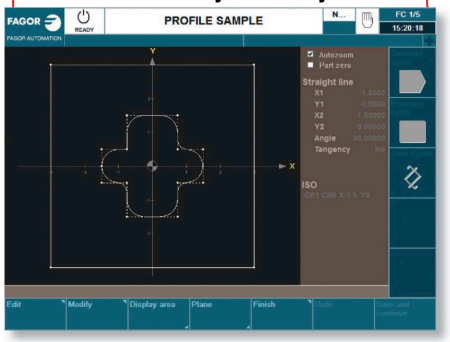
1 Select your cycle of choice



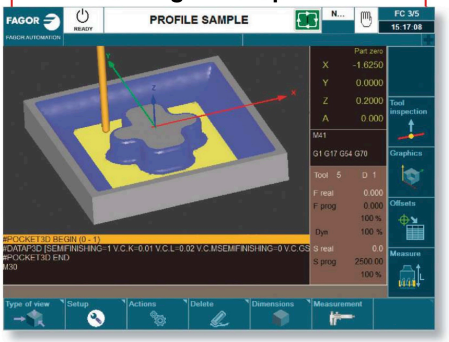
2 Fill in the cycle variables directly from blueprint in seconds



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

HUMANITY AT WORK MONDRAGON

fagorautomation.us

Chicago I Dallas I Florida I Los Angeles I Montreal I Atlanta I Toronto

For more information: 800-4A-FAGOR or info@fagor-automation.com

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

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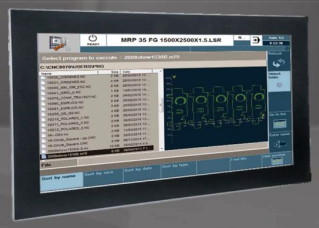
FAGOR Remote Support Program

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[1] 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.[2]

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 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-transferrable 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

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: _____

[1] 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.
[2] 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.

Fagor Automation Canada. 3-6380 Tomken Road, Mississauga, ON Tel (905)670 7448 Fax (905) 670 7449

SPECIAL PROMOTIONAL PACKAGE PRICE: US $259,900

TERMS AND CONDITIONS

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
Twelve (12) months.

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
website: www.ronnater.ca