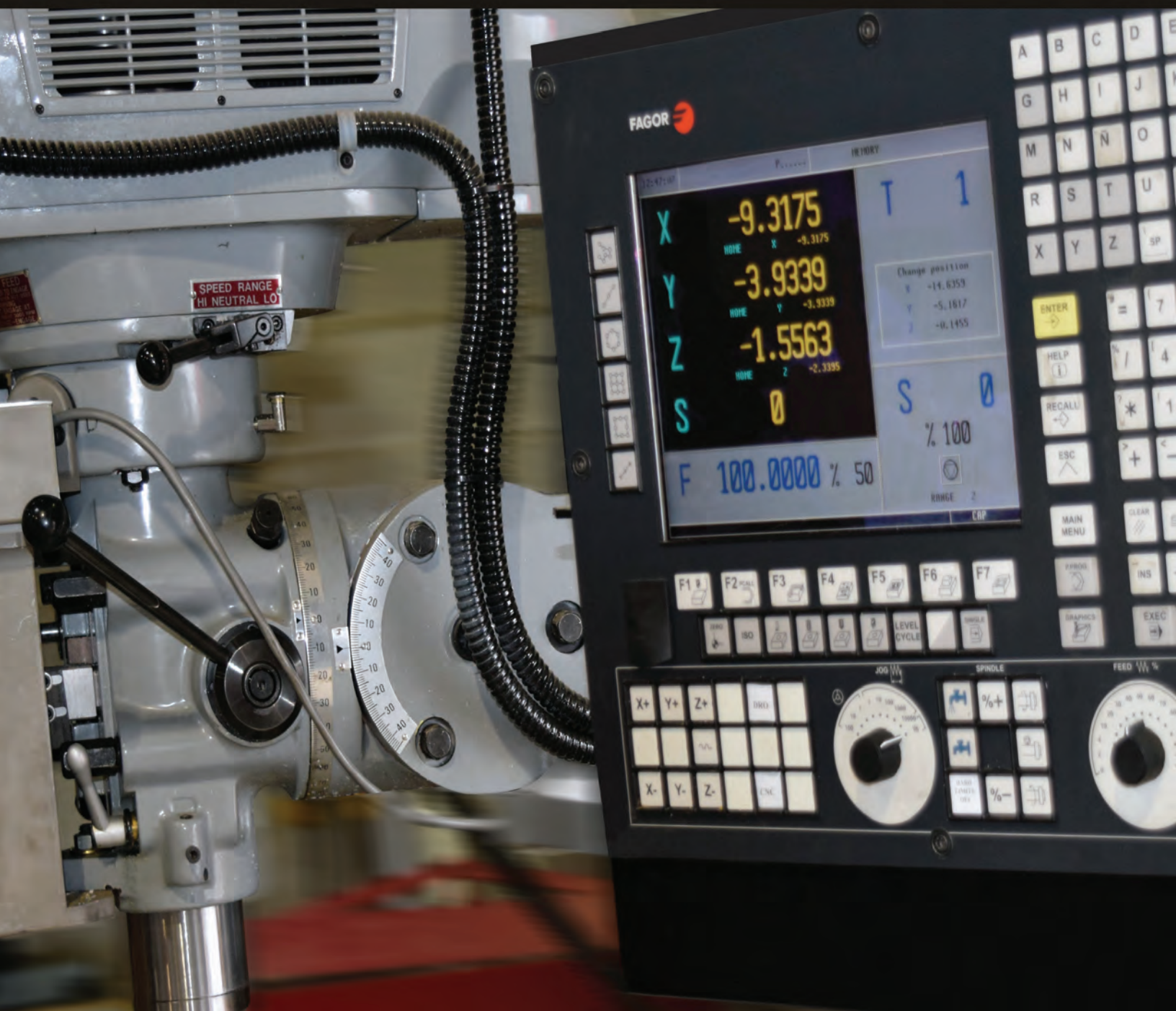




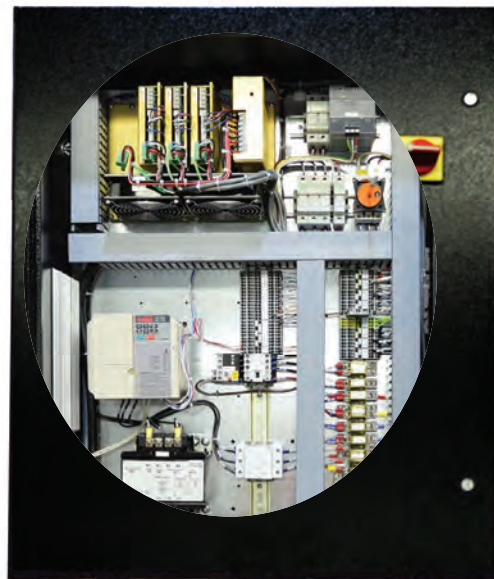
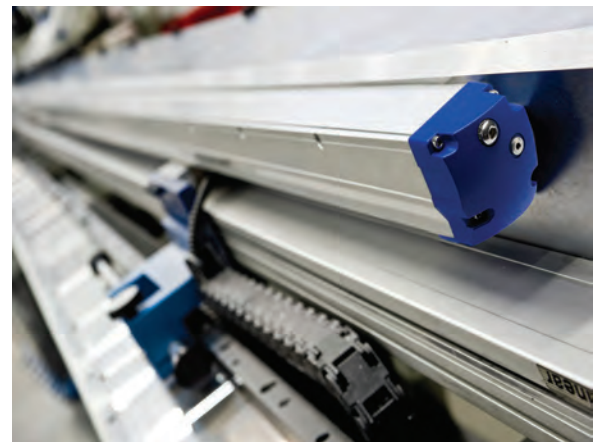
CNC Turnkey Solutions for Kneemills, Bedmills & Teach-In Lathes



What is a Fagor Turnkey Package?

A Turnkey Package is a pre-engineered CNC-Servo System. The CNC is integrated into a functional machine tool pendant and the Servo System is engineered into an electrical cabinet. The two systems are integrated together to provide a working Turnkey System ready for installation. All interconnected wiring is provided, including the motor power cables, encoder cables as well as servo motors. Each system is pre-wired and configured for your specific machine application by our technicians and is fully functional upon delivery. All of Fagor Turnkey Packages are custom-made in our HQ facility in Elk Grove Village, Illinois.

Various options are available dependent upon your specific machine needs that include Ballscrew Packages, Smart Z-Quill Kits, AC Brushless Motors, Linear Encoders and much more.



Standard Packages Include:

Fagor CNC Turnkey Solutions

Most Powerful in class
(30 in. lb.) AC or DC
motors included
with Rotary Encoder

Quill Kit*

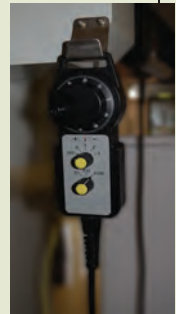
Sturdy-Swivel CNC Arm

Easy-to-use 8055 MC Control with
Conversational Programming and a
full alphanumeric keyboard

Color LCD Monitor Standard

Panel mounted
or Portable
handwheels available

Pre-wired and
functional
Servo System
Electrical cabinet



X-Y Ballscrew*
Packages Available

All Cable Assemblies included

Precision Linear Encoders also available
with Distance Coded I/O

X-Y Motor Mounting
Hardware available

**Shown with some hardware options.*



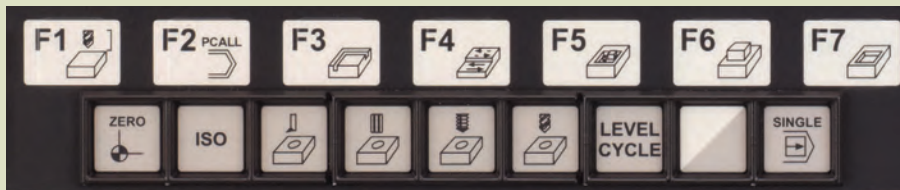
Also Available For Turning Machines

Programming Made Easy...



Conversational ICON keys

Dedicated hot keys with the One Operation/One Cycle philosophy. Each operation page includes assist graphics and contain all operation variables on a single page for extreme simplicity. (Spindle Speed, Roughing & Finishing, Cycle Data, Coolant On/Off)



**No
Prior CNC
Programming
Knowledge
Required**

As Easy As...

1. Simply Press the ICON key of the operation you wish to perform

2. Fill in the blanks of the variables directly from the blueprint



3. Save your operation to a program or execute as a single cycle operation

Conversational Operations - Milling



Simple Cycles

- >> Slot Milling
- >> Ring Milling
- >> Rectangular Groove
- >> Engraving
- >> Part Skew



Boss Cycles

Rectangular and Circular Boss Cycle capability.



Surface Milling

Bi-Directional Surface Milling on X or Y axes.



Mirror Imaging

Mirror any part on X, Y, or XY plane.



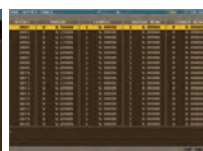
Hole Pattern Cycles (Used for Drilling, Tapping, Reaming, Boring and Pocket Operations)

- >> Random >> Bolt Hole
- >> Rectangular >> Linear
- >> Grid



Full Featured Manual/Jog Mode

Powerful Jog/Manual Mode for easy machine navigation including key jogging, handwheel jogging or MDI mode. Also, preset capabilities as well as machine home capability.



20 Work Zero Offsets & 255 Tool Offsets

Setup a desired tool change location for all of your tool changes. Set different part zero offsets & tool offsets with ease.



Scaling

Scale program from to 0.0001" to 9999.9999".



Tool Calibration

Quick and easy Tool Offset creation consisting of a 2 key operation. Touch Tool position, press Z-Enter.



Pocket Cycles

Complex and simple Rectangular and Circular Pocket Cycles including 3D Pocket Cycles.



Subroutine Capability

Ability to easily create and save and call Custom cycles and frequently used Subroutines

And Turning



Rounding Cycles

Quick and easy single page rounding cycle capability.



Grooving Cycles

Powerful Grooving Cycles allow Grooving on Face or Diameter.



Cut-Off Cycles

Easy part cut-off cycle.

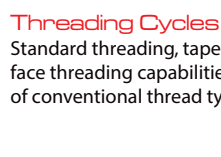
Thread Repair Cycles

Allows for fast and easy thread repair.



Turning/Roughing Cycles

Versatile host of turning/roughing cycles for the diameter or face.



Threading Cycles

Standard threading, taper threading and face threading capabilities with a selection of conventional thread types.



Tool Calibration

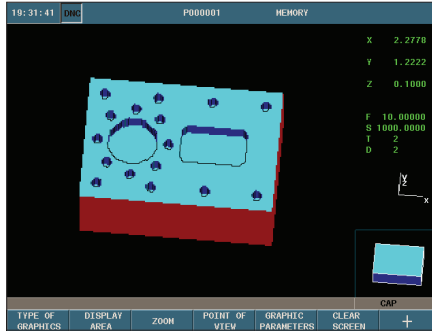
Quick and easy tool offset creation consisting of a 2 key operation. touch tool position, press Z-Enter.

Advanced Capabilities

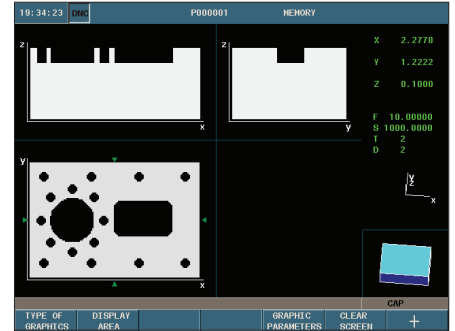
Profile Editor



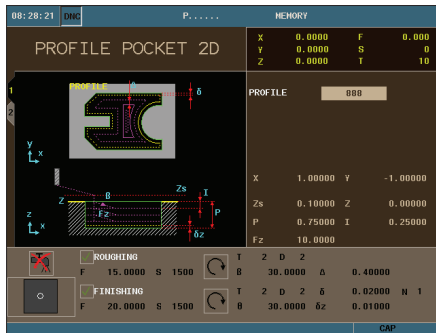
Solid Graphics



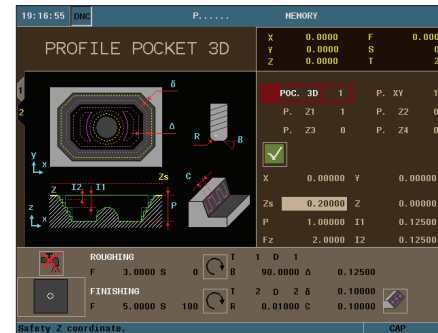
Sectional Solid Graphics



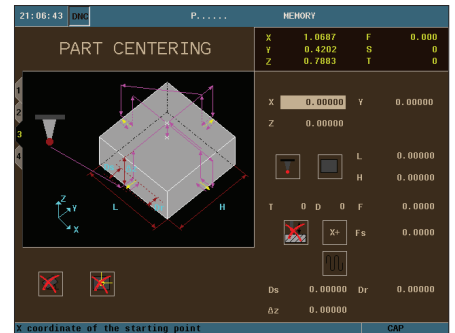
2D Profile Pocket



3D Profile Pocket



Probing Cycles



Turnkey Package Accessories

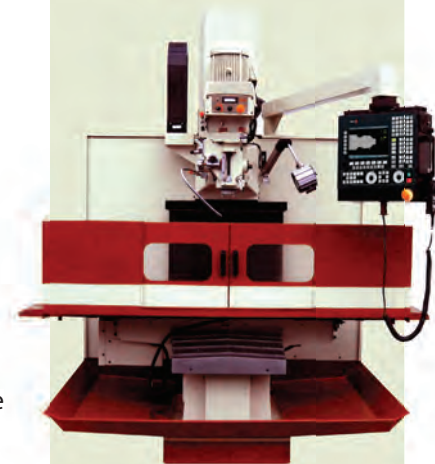
1. X- & Y-Axes Motor Bracket
2. Axes Limit Switch
3. CNC Pendant Arm
4. Ballscrew Packages
5. Smart Z Quill Kit

...And Much More



Turnkey Package Features

- 1.** Interactive ICON based conversational programming system.
 - 2.** One screen – one operation, fill in the blanks & press cycle start
- 3.** 25+ predefined milling & turning cycles for ease of programming
 - 4.** Conversational Tool-Offset mode allows for quick and easy tool setting
- 5.** Built-in Mini CAD/CAM system
 - 6.** DXF File Conversion
- 7.** Powerful Teach-in mode standard
 - 8.** Tool path and solid graphic simulation standard
- 9.** Unique & Powerful Dynamic Tool Inspection Mode also standard
 - 10.** 10.4" Color TFT LCD screen
- 11.** 4th axis ready and capable
 - 12.** Most Powerful Standard Servo Motor system offered!
- 13.** X, Y, Z Ball Screws and X,Y,Z brackets (Milling)
 - 14.** Smart Z axis quill mount including linear encoder & cable
- 15.** USB Port located on Keyboard for easy program uploading/downloading
 - 16.** Ethernet Capability (Optional)
- 17.** Scaling Factor, Mirror Imaging and Pattern Rotation standard features
 - 18.** Bi-Directional Leadscrew error compensation and Backlash compensation standard
- 19.** Precision Semi-Absolute and Absolute Linear Encoders available
 - 20.** 13 language loaded as standard (Switchable by Parameter)
- 21.** Powerful Simulation mode with 3D Graphics
 - 22.** Easy to use Teach-In mode
- 23.** Switchable from Manual to CNC mode



worldwide automation

Fagor Automation is a Cooperative organization which is part of the MONDRAGON Corporation-the 7th largest business group in Spain. In the forefront of our corporate heritage is our commitment to manufacture the highest quality and most advanced range of CNC controls, servo drive systems and position feedback systems for industrial automation and processes. Along with the promise of providing the highest level of customer satisfaction and continuous product improvement.

Fagor Automation endeavors to develop a cooperative social and business model for all of its advanced technologies through globalization of its products and commercial network. The involvement of the employees in management, results and ownership is founded on the skills and willful support of each of them based on the principle of rewarded participation and the development of a democratically functioning organization.

Fagor Automation encourages an attitude of continuous search for alternatives thus creating new technical, commercial, economic and organizational solution. The organization stands on three pillars: Industrial, Financial and Distribution sectors. Our R&D centers are integral to many business areas and the Mondragon University which is well supported by the group.



www.fagorautomation.com



For More Information:

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