

FEATURES PRESENTATION









MAIN FEATURES OF THE 8060FL



Avant-garde browsing

All kinds of advantages to speed up the work of the end user

TOUCH SCREEN (Option only on the 8060 model)

USB CONNECTION (Default)

Two USB connectors, one on the back and one on the front.

ETHERNET (Default)

SERIAL LINE (Optional)

To connect devices such as printers, bar code readers,...







User memory

CNC MEMORY

Standard memory of 1300 M) for the user.

MEMORY EXPANSION

Compact Flash
USB memory
(Programs can be run directly from both devices)



REMOTE MEMORY

Using the memory of a remote PC.

The user select and run the program directly from the PC.



Freeware PC workstation (Simulator)

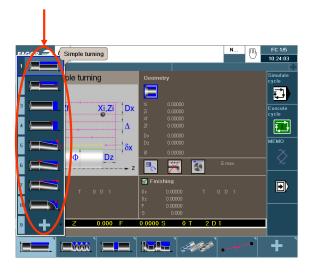


- No expiration date
- Unlimited size for programs on edition or execution
- > Same features as the CNC 8060
- Real machine configuration can be loaded.
- Software available on Fagor website.

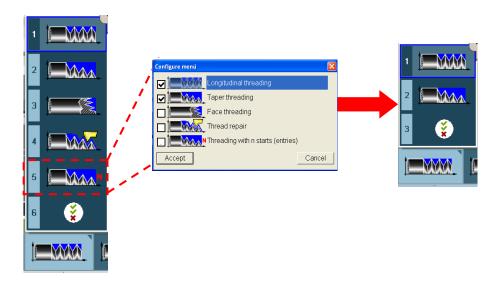


■ Visual and interactive interface

Pop-up navigation



User customizable interface

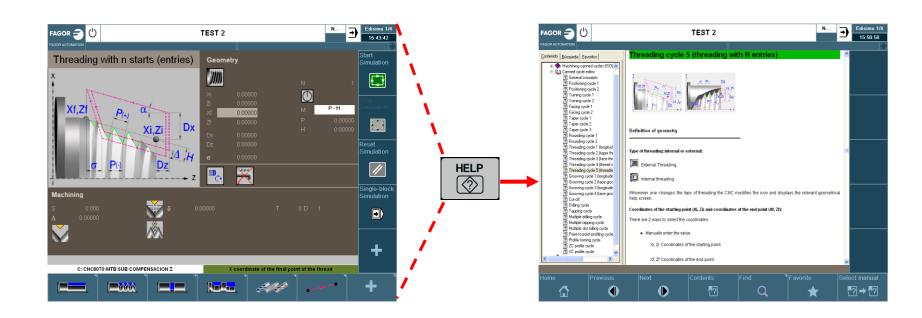




Integrated manuals

The CNC integrates the operating and programming manuals.

The chapter related to the current operation is displayed.



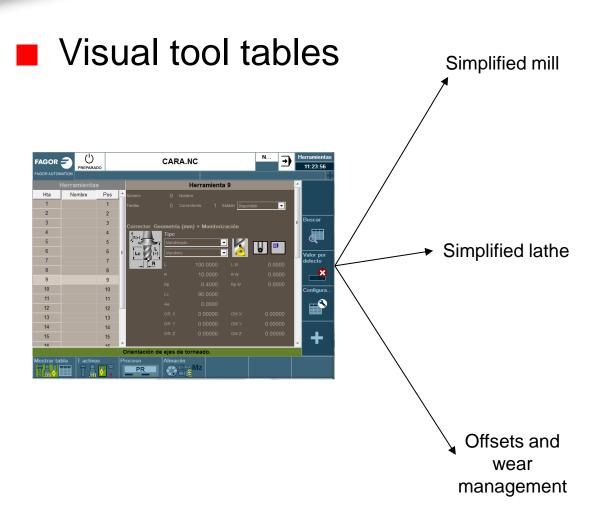


Part preparation assistance (Calculator)

- Calculations are made faster
- > Errors are avoided when writing the data.











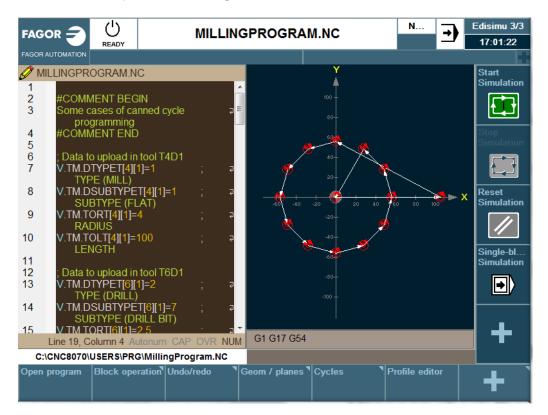




Interactive graphics

Programmed profiles can be displayed during the edition.

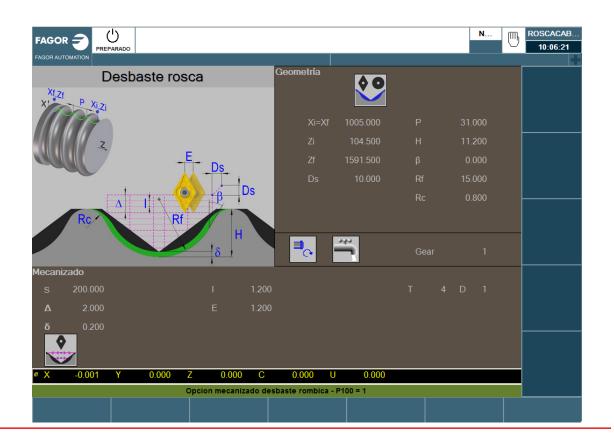
User can check the movements and the direction programmed before execute the programs or even before simulation



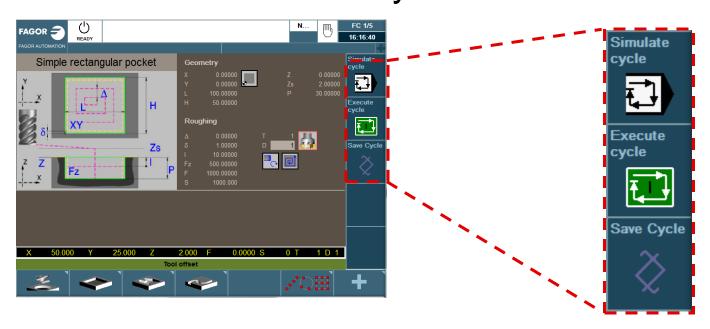


User cycles

Customized, exclusive cycles can be developed for the customers



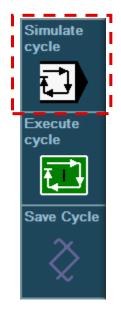




The Fagor IIP Programming system allows to the user to run the machining directly from the cycles.

There is not need to create programs, so there is not waste of memory of the disk for those simple operations.







The cycle can be directly simulated on the cycle page. If the user is not satisfied with the result he can directly check the inserted data.

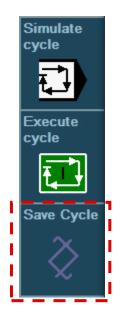


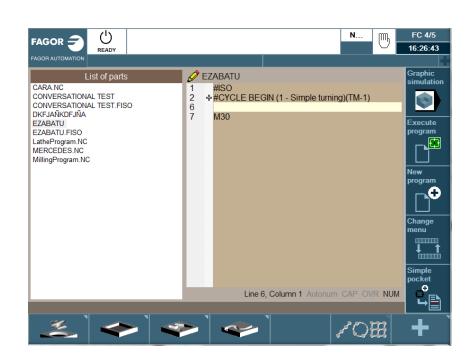




The user can directly run this individual cycle just selecting the executing option







Finally, the user can select to save the cycle on a program



Background programming & executing





Program execution

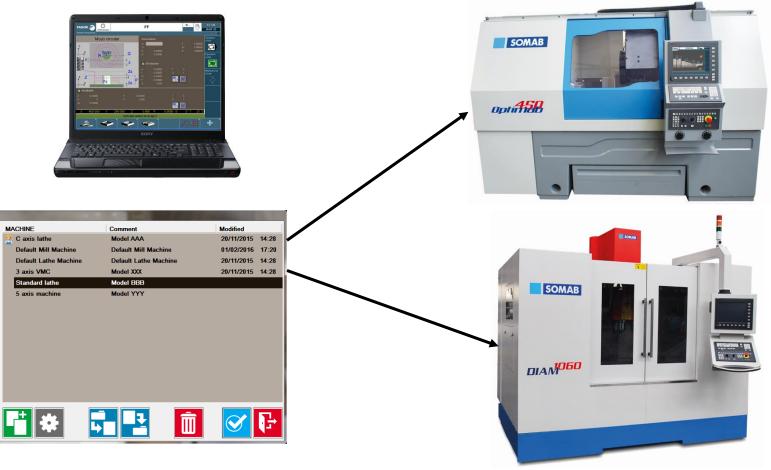


Editing and simulating another program





PC Simulator, machines directory





CNC customizing

G500... G599 routines

The Oem can define its own cycles using these macros adding his own G codes to the ones offered by Fagor

HSC programming on the 8055 Standard programming 8060/65 HSC programming using the G501 G51 E0.01 #HSC ON [SURFACE, E0.01] G501 E0.01

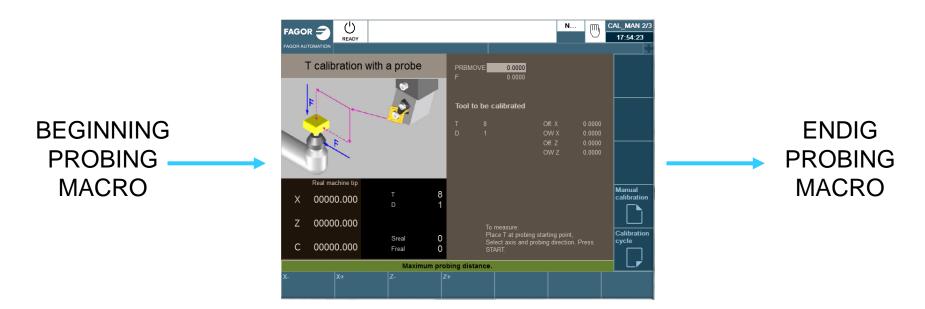
START macro

A macro can be defined that will be systematically executed every time when we will press START. After the macro is executed the program will be executed normally.





Routines can be defined to be executed before and after the probing cycles (To activate lathe probes, for example...



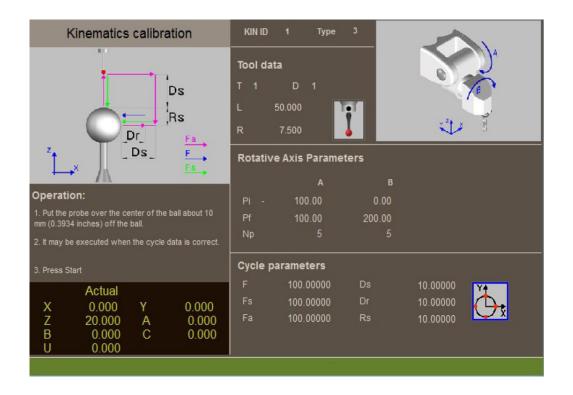


Friendly, complete part centering cycle.



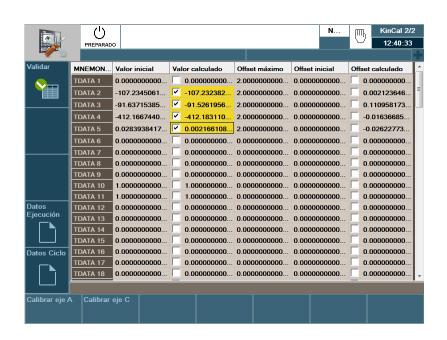


Kinematics calibration





Kinematics calibration





Modifying machine parameters OEM

Modifying offsets USER



Probing collision control
-CNC will be continuously
watching the status of the probe
even if it is not selected. If the
probe touch any place, it will
stop immediately





Spiral milling





Advanced DXF import

- Identification of circles to convert them into cycles.
- XY offsets
- Z offset
- Selection of the subroutine to be executed in the case of cycles
- Selection of the subroutine to be executed at the beginning/end of the program



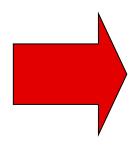


New ISO convertor

#ISO



#ISO OFF (or M30)



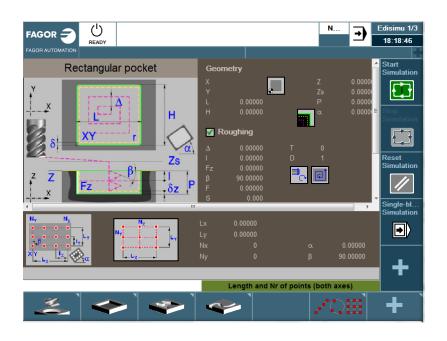
M9 T6D1 M9 G97S=500 M3 G0G50G90Z2X54 G40 G0G61Z2X54 G0X48 V.A.PRGSSO.S=100 V.G.PRGFRO=100 #DFHOLD **#DSTOP** #SLOPE[0] G33G61Z-99.78298611X48K5 G33G61Z-100X48K5 G0X54 G33G61Z-99.78298611X47K5

#CYCLE END

M30



Multiple pockets







Complete range of milling cycles for the lathe

Center punching.

Drilling.

Deep hole drilling.

Tapping.

Reaming.

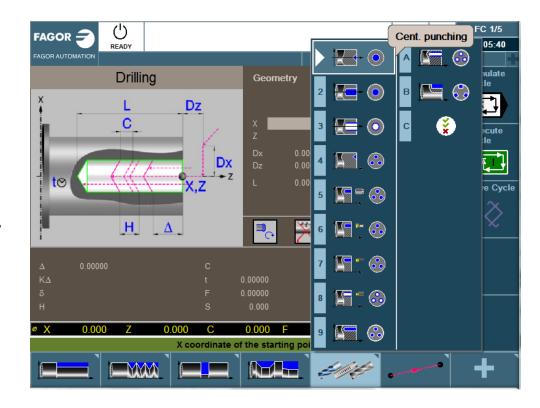
Boring.

Boring with spindle orientation.

Bore milling.

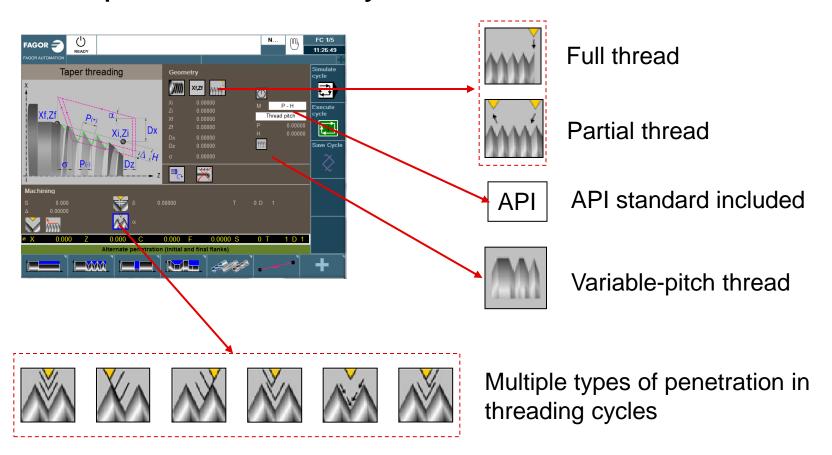
Thread milling.

. . .



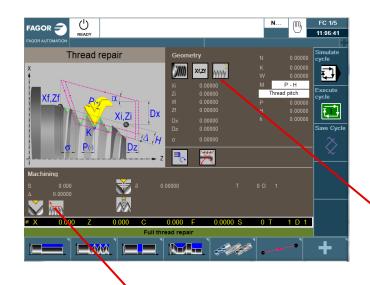


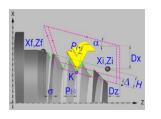
Improved thread cycles

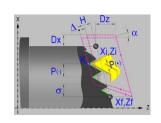


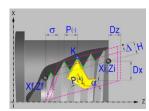


Improved thread cycles (2)









External, internal & frontal threads



Standard thread



Blind thread



Full thread repair



Partial thread repair



Multi-start (entry) thread repair

NEW COMING FEATURES







■ New handwheels HBH3/HBH4



Wi-Fi

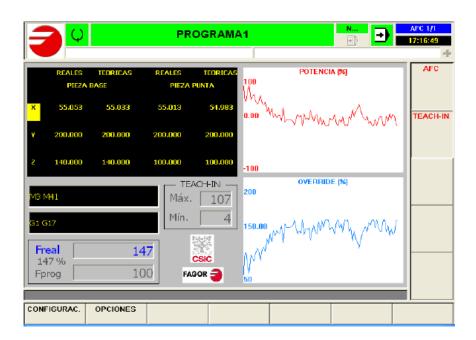




Dynamic Machining Control (DMC)

The CNC analyzes the machining conditions (power consumed, tool tip temperature, etc.) and adapts both the axis feed rate and the spindle speed for machining under the best conditions in order to achieve maximum productivity



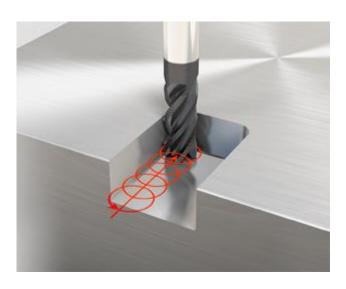




Orbital milling

The main advantages of this machining strategy are:

- Be able to machine a bigger groove than the cutting tool diameter
- The cutting speed will be bigger
- The tools last longer as the contact cutting point is continuously changing.





Display of the instructions of the canned cycles

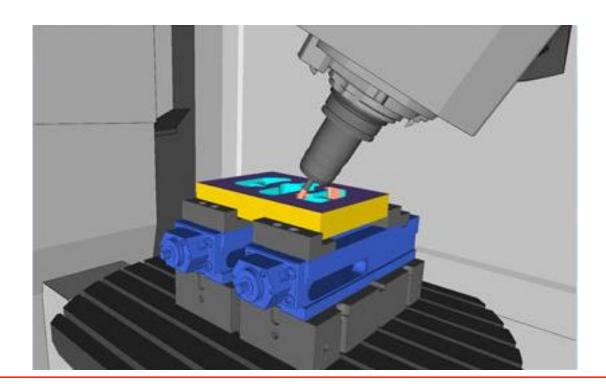
The end user will have the possibility to verify what is being executed inside a canned cycle on any moment. He will be able to control the process, step by step.





5 axis collision control

The CNC will control the position of the machine kinematics to avoid any collision with the statics parts of the machine.





Vectorial programming format

The Fagor CNC will allow you to use the vectorial programming format. The same program will be able to use on machine with different kinematics.







THANK YOU