

# F SERIES

Range of electronic NC point-to-point through feed boring machines



**STANDING  
INNOVATION**



*NC borers*

**F6**

**F8**

**F10**

**F9L**



F6 model with folding roller table and sliding door protection.



F6 model with fixed roller table for panels of big dimensions.



# F8

# F10



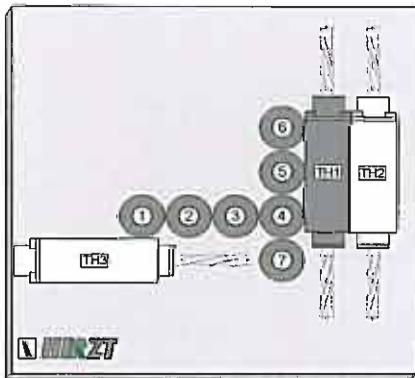
F8 model with safety laser barrier.



F10 model with safety laser barrier.

The boring line F series has been projected to obtain the maximum flexibility (with a SET UP TIME=0), increase productivity, eliminate loading/unloading time and raise the standard of quality. Thanks to the drilling from the bottom shavings are completely removed from the hole.

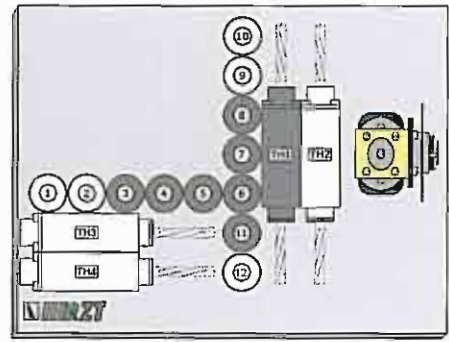
The boring head with independent spindles can be equipped "on demand", offering the possibility to add further horizontal spindles for lateral drilling.



- standard
- optional

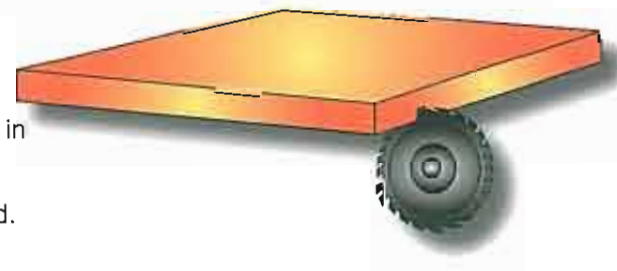
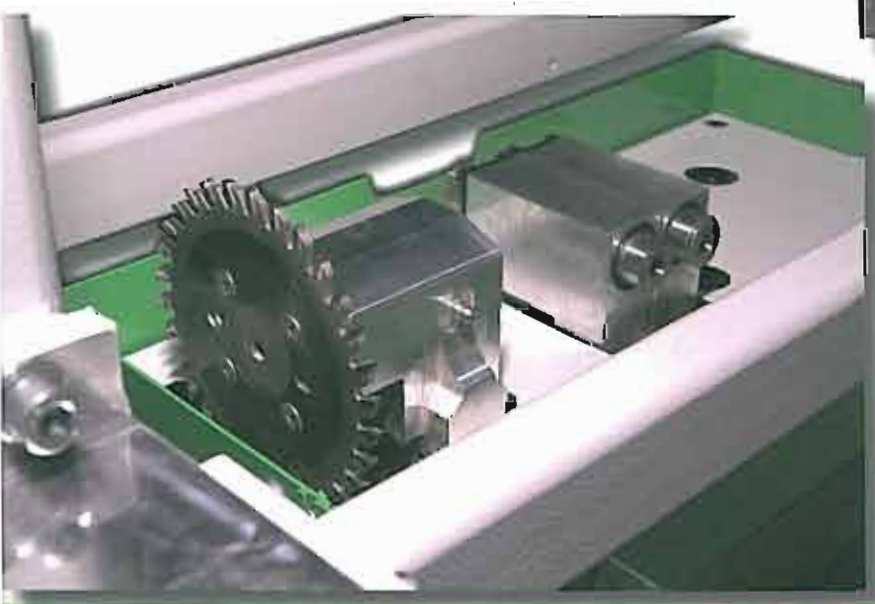


# F9L



 standard

 optional



F9L - version with saw unit for grooving included in to the boring head.

F9L is equipped with "FULL" control as standard.

## "F" BORING CENTRES

Highly flexible- SET UP time=0- with a loading/unloading time approximately to 0.

The high flexibility makes the machine useful also to work only one piece. The operator loads the panel on the working table and positions it against the guide by the self-blocking side pusher.

After starting the operation, the pneumatic clamp feeds-in the panel along the X axis (controlled axis). The boring head moves along the Y axis according to the boring program (2nd controlled axis) and Z axis (3rd controlled axis) defines the boring depth.

## ADVANTEGES OF "F" SERIES

The drilling from the bottom increases the boring quality. The hole is clean.

The panel feeding system by clamps has no limitation of panel length in a compact machine of around 3m<sup>2</sup>.

Possibility of boring on 5 sides of panel.



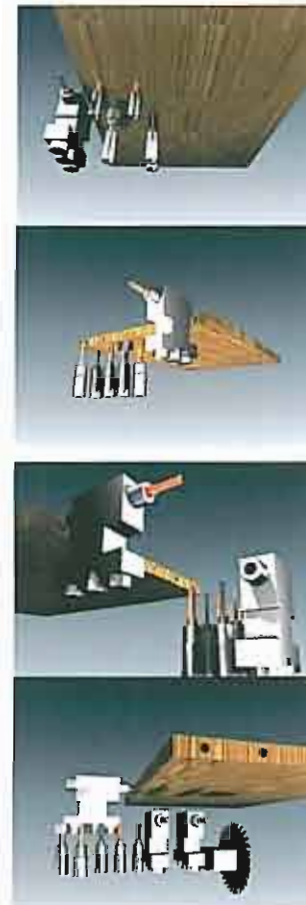
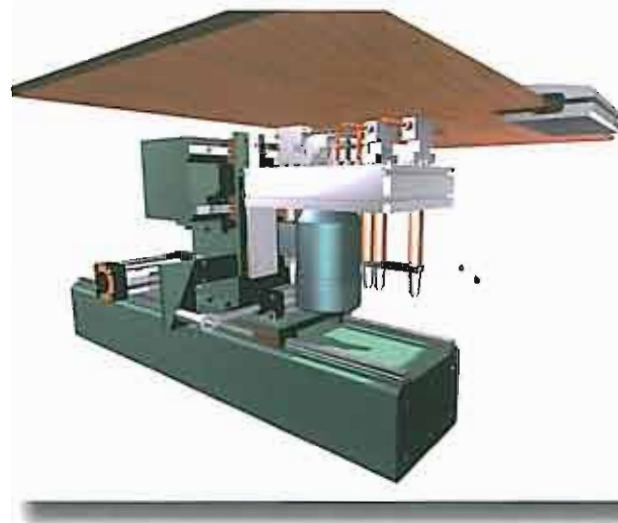
System of panel seizing and feeding by automatic clamps.



Side pusher with automatic pressing unit.



Possibility of panel unloading either on the back roller table or on the front with return of the processed panel to the operator.





STANDING INNOVATION

# THE REVOLUTION OF HIRZT BORING TECHNOLOGY

*TWO OPPOSITE METHODS*

*Drilling of 10 lots of 20 panels each*

## NC borers F series

SET UP time per lot- 3 seconds  
Number of lots- 10 (tot. 200 panels)  
Total SET UP time (10x3)= 30 sec.

Loading/unloading time = 4 sec.  
Total loading/unloading time  
(200 pc.x 4 sec.) = 800 sec.

Total working times:  
Total SET UP time (30 sec.) +  
Total loading/unloading time (800 sec.)  
30 sec. + 800 sec. = TOT 830 sec.

**Total working time: 13' 50"**

## NC borers with fixed panel and vacuum caps

SET UP time per lot = 40 seconds  
Number of lots = 10 (tot. 200 panels)  
Total SET UP time (10X40) = 400 sec.

Loading/unloading time = 50 sec.  
Total loading/unloading time  
(200 pc. X 50 sec.) = 10.000 sec.

Total working times:  
Total SET UP time (400 sec.) +  
Total loading/unloading time (10.000 sec.)  
400 sec. + 10.000 sec. = TOT 10.400 sec.

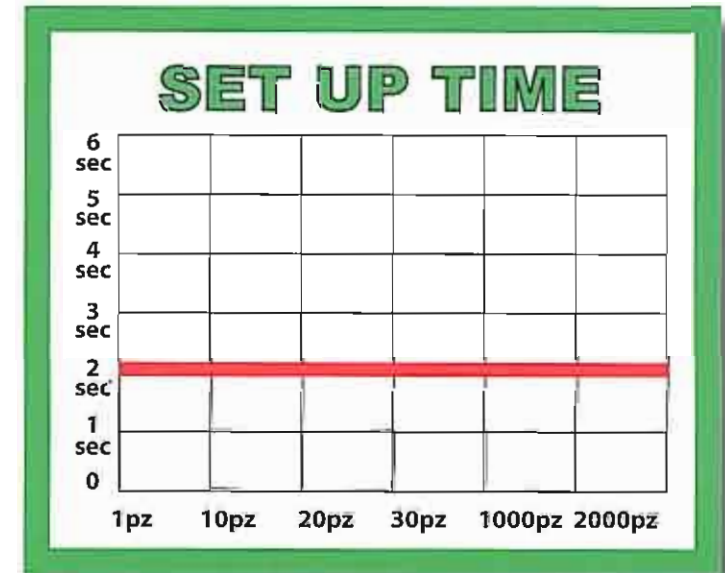
**Total working time: 2h 53' 20"**

**With NC F series borers you have a  
CUT OF TIME AND REAL PRODUCTION COSTS  
for a cycle of 10 lots of 20 panels each**

**2h 39' 30"**

\*calculation of SET UP and loading/unloading time - boring time must be considered according to the machine's model.

\*\* times must be considered as variable.





**EASY**

**EASY:**

Integrated console with Windows CE, color LCD 10" display, multifunction alphanumeric keyboard, frontal USB device for programs filing. Scheme of displaying through a simple menu easy to navigate.

Programming of drilling through description and graphic display with simultaneous optimization. Machine set-up, zero-setting of automatic and manual axes movement, possibility to work with single programs and working lists.

**MEDIUM:**

Control with PC Office on integrated console with Windows XP Embedded, 1 Giga-byte of Flash Memory for high speed and filing. Color LCD 8" display with multifunction alphanumeric keyboard, mouse, integrated network card and USB port.

Graphic interface completely developed with "object oriented" technology, highly recommended for any application. CAD/CAM system proprietary; CAD/CAM system integrated that allows the creation of 3D parametric drawings and their translation into ISO programs.

It joins simple tools oriented to specific operations. It is possible to integrate in the drawing technologic and constructive information about the machine (mechanic limitation, speed) that can have different applications.



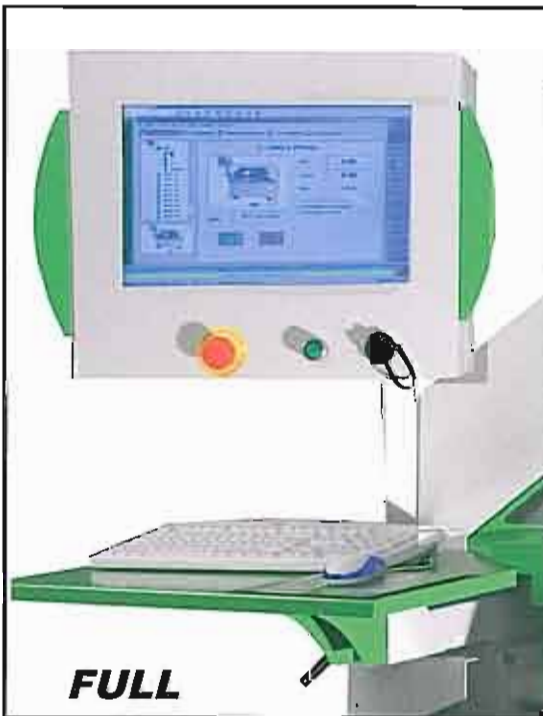
**MEDIUM**

**FULL:**

Control with PC Office on integrated console with Windows, Ram for high speed and Hard disk for big filing capacity.

Color LCD 8" display with independent keyboard, mouse, integrated network card and USB device. Graphic interface completely developed with "object oriented" technology, highly recommended for any application.

Compatible with Windows 9x/NT4/2000/XP. Systems of optimization of dedicated interfaces. CAD/CAM system proprietary; CAD/CAM system integrated that allows the creation of 3D parametric drawings and their translation into ISO programs. It joins simple tools oriented to specific operations. It is possible to integrate in the drawing technologic and constructive information about the machine (mechanic limitation, speed) that can have different applications. Possibility of interface with other CAD systems by importation/exportation of drawings in different formats: DXF (AutoCAD), CID (Proprietary). Remote teleassistance: through the most common softwares it is possible to control remotely all machine's functions for a complete and efficient assistance. Possibility of installation of remote office software and bar code.



**FULL**



**STANDING INNOVATION**

**TECHNICAL DATA**

	<b>F6</b>	<b>F8</b>	<b>F10</b>	<b>F9L</b>
Number of controlled axes	3 (X - Y - Z)	3 (X - Y - Z)	3 (X - Y - Z)	3 (X - Y - Z)
Through feed panel width	800 mm	1000 mm	1200 mm	900 mm
Boring area width	600 mm	800 mm	1000 mm	800 mm (600 mm saw)
Panel feeding speed	30 m/min	30 m/min	30 m/min	30 m/min
Spindles rotation speed	3400 rpm	3400 rpm	3400 rpm	3400 rpm
Total power	2,5 Kw	2,5 Kw	2,5 Kw	2,5 Kw
Diameter aspiration point	100 mm	100 mm	100 mm	100 mm
Air pressure	6 bar	6 bar	6 bar	6 bar
Dimensions (cm)	165X163	165X192	165X210	165X210
Working table height	900 mm	900 mm	900 mm	900 mm
Folding roller table	opt.	opt.	opt.	opt.
Fixed roller table for big-sized panels	opt.	opt.	opt.	opt.

**STANDING INNOVATION**

**EDGEBANDERS  
BORERS  
AUTOMATION PLANT**

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