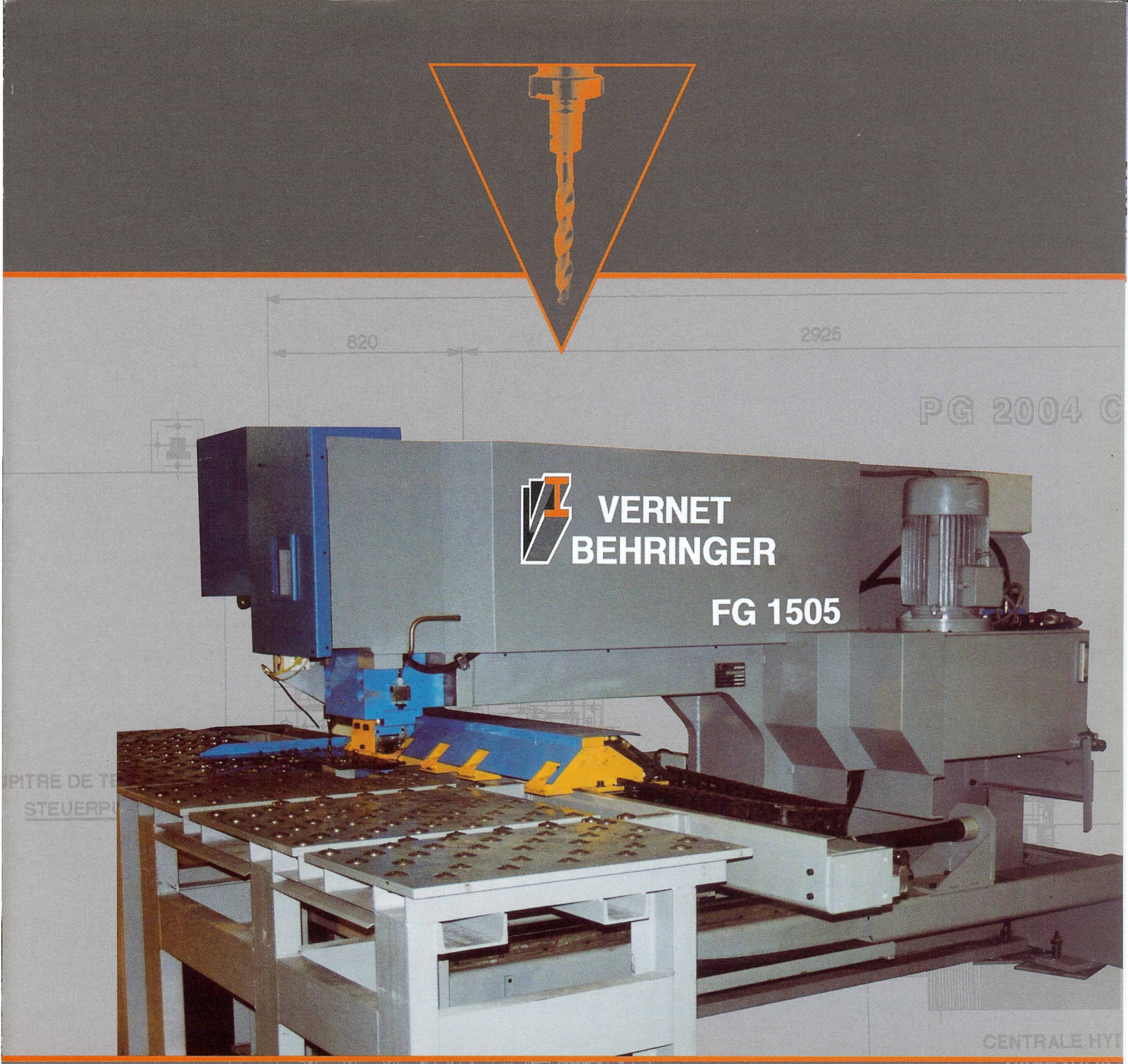


FG

Marking-drilling machine
for plates and gussets

VERNET BEHRINGER

Gamme FG : FG 1505 / FG 2005

simple, inexpensive and fast machines

The high-capacity machines in the FG range (2000 x 1000 x 40 mm), with 3-axis numeric control, are designed for machining plates and gussets.

Handling times are considerably reduced by combining at a single workstation drilling operations at different diameters, marking, pop-marking, tapping, etc.

Easy programming and use thanks to the computer-assisted manufacturing softwares and the numeric control system.

The 80-ton power rated marking unit has a 10 character capacity with counter-marking.

TECHNICAL DESCRIPTION

DRILLING

The drilling unit is fully numerically controlled and its motorization system allows for high-speed drilling (2000 rpm) with a carbide drill.

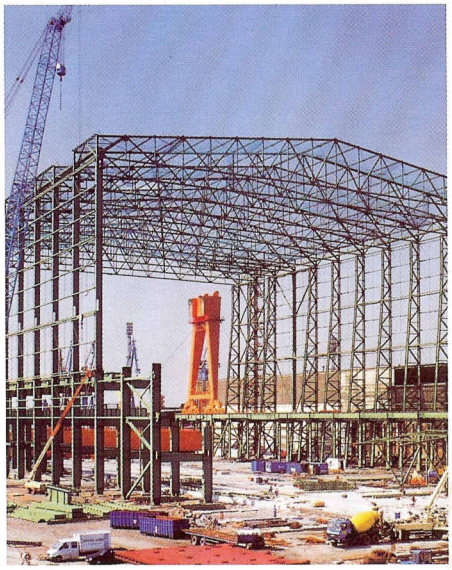
The unit is fitted with a 5-drill tool changer and selection is controlled by the NC system.

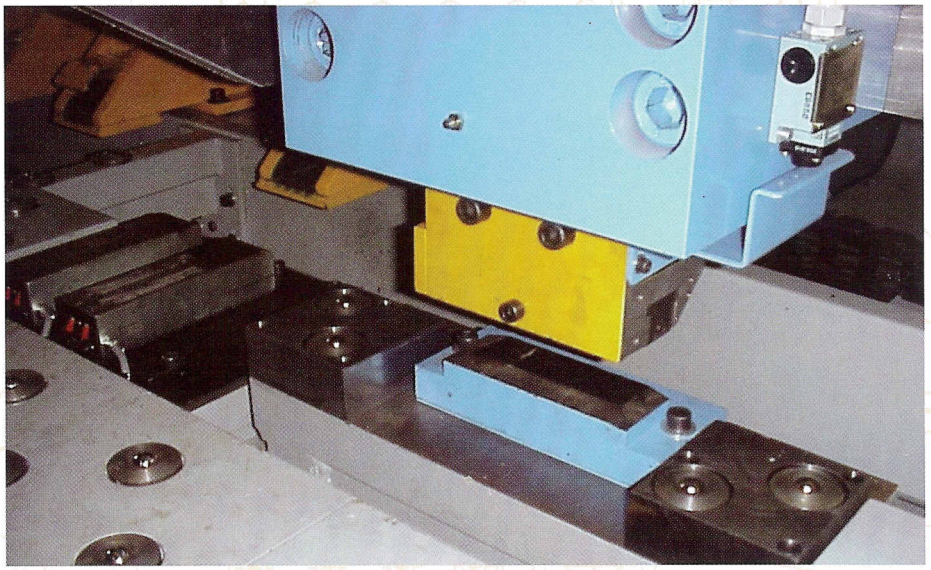
A deburring system, located under the table, operates in an automatic cycle.

Lubrication is provided either by an external spraying system or by a centralized spraying system, or by centralized spraying with recovery of the lubricant.

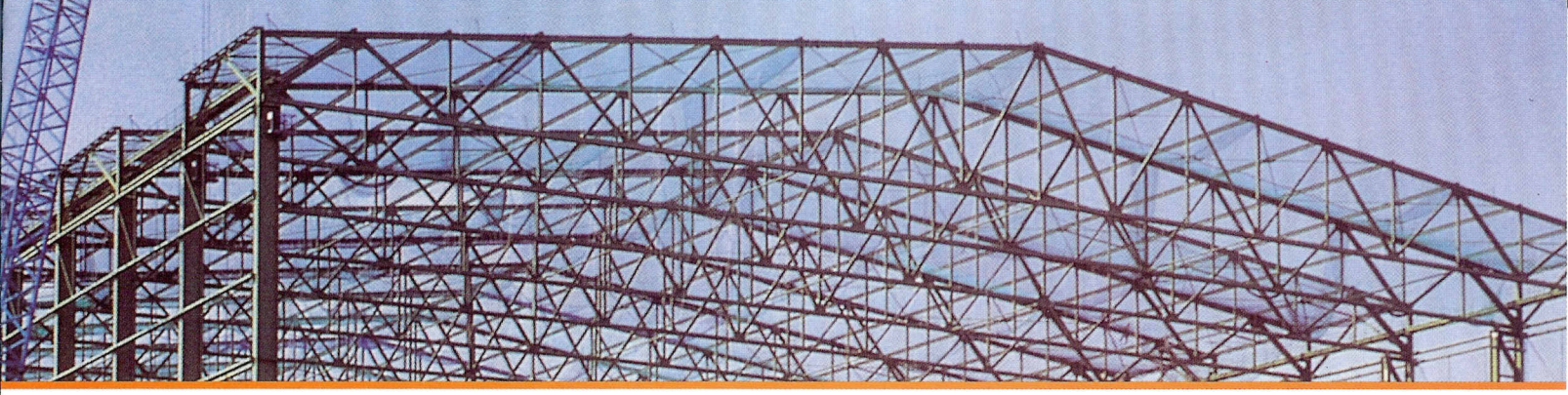
NUMERICALLY CONTROLLED AUTOMATION NC

- Positioning of parts under the drilling unit.
- Selection of the drilling diameter.
- Storage of drilling parameters, cutting speed, feed per revolution.
- Control of spindle rotation speed by frequency variation.
- Numerically controlled spindle feed with ball screw and motoresolver system. Pop-marking, spot-facing and tapping possible.
- Adaptive feed: automatic transfer fast feed/work speed.
- Drill length measurement.
- Latest generation Pentium PC.
- High-capacity storage internal disk and RAM memory
- 14" VGA screen or flat plasma TFT screen.
- Tight keyboard.
- Electrical cabinet and desk air-conditioning.
- Link with network possible.



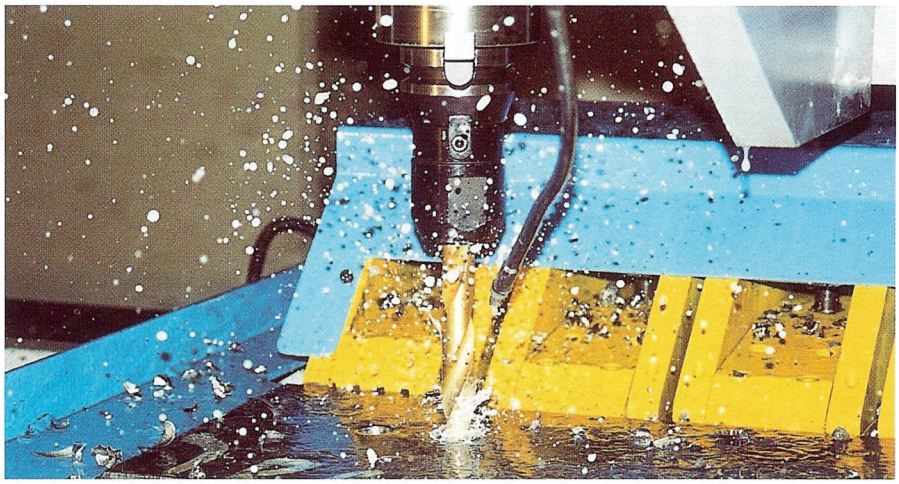


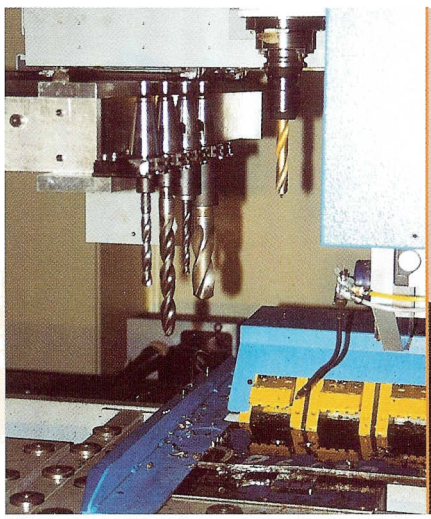
Marking unit



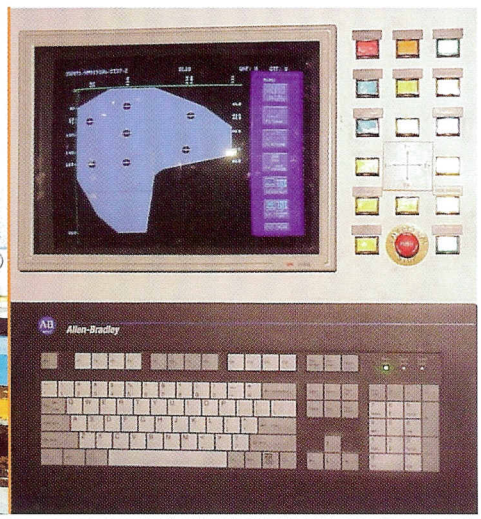
- Very friendly and easy-to-use programming software under Windows; numerous functions; graphic mode and table mode.
- Programming in spare time.
- Remote maintenance modem.
- DSTV file import.
- Production reports

The FG machines, with Pentium PC management, are powerful and fast and combine marking and drilling operations on thick sheets.
The 5-drill tool changer makes it possible to carry out all operations without handling of an operator.
The clamp-holder carriage position in the gooseneck frees the workstation over 180°.
Ball-screw drives and motoresolver system allow for numerically controlled movements with very accurate positioning.



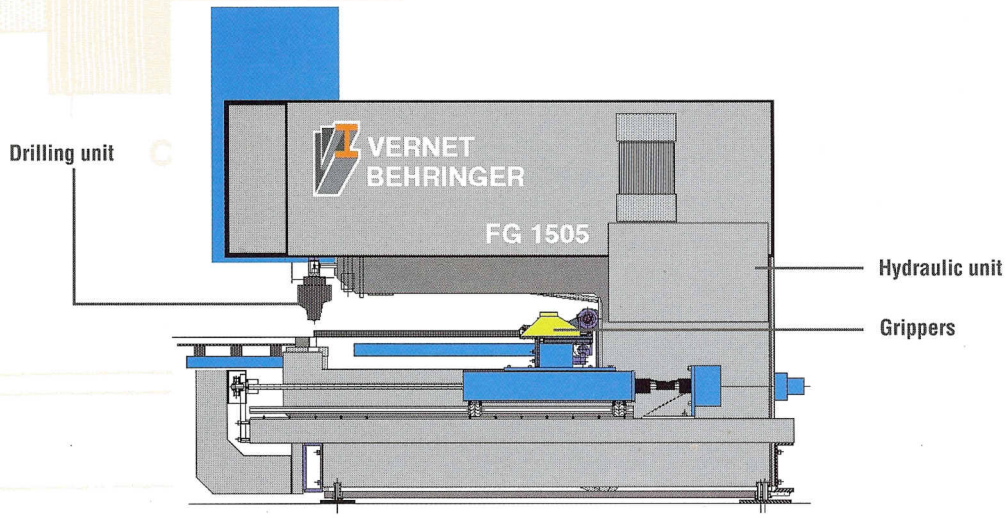


Tool changing system 5 Ø



Control desk

Drilling marking machine for sheet and plates FG 1505 CNC



	FG 1505	FG 2005
Characteristics		
Minimum capacities	100 x 100 mm	100 x 100 mm
Maximum capacities	1500 x 1000 mm	2000 x 1000 mm
Minimum thickness	5 mm	5 mm
Maximum thickness	40 mm	40 mm
Approximate weight	11000 Kg	12500 Kg
External dimensions L x w x h	3.3 x 4.4 x 3.1 m	4.0 x 4.9 x 3.1 m
Marking		
Marking power	800 kN	800 kN
Number of characters	10	10
Drilling		
Power	11 kW	11 kW
Spindle	SA 40	SA 40
Spindle speed	50 - 2000 RPM	50 - 2000 RPM
Drilling maxi diameter	Ø 40 mm	Ø 40 mm
Equipments		
Air conditioning in electrical cabinet	●	●
FG driver software	●	●
DSTV file import	●	●
Telemaintenance	●	●
Marking		
Countermark	●	●
Disk marking unit - 40 characters	○	○
Drilling		
Tool changing system (5 Ø)	●	●
11 kW spindle power	○	○
External lateral spraying	●	●
Central spraying	●	●
Central cooling	○	○
Pop-marking	●	●
Threaded holes	○	○
Deburring system	○	○

○ Optional ● Standard

VERNET BEHRINGER reserves the right to modify technical data without prior notice
Characteristics are given for E24 / ST37 steel

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