



**MULTISPINDLE HIGH SPEED DRILLING
MACHINE FOR MACHINING ALL TYPES OF PROFILES**

HD



HD

Multispindle high speed drilling machine for machining all types of profiles:

structural beams (H, I, U, Angle sections, Flat bars),
simple structural sections (plate girders) or with variable angle,
rectangular hollow sections.

Combined with a Behringer band saw: HBP reference, the machines constitute a key element of any efficient steel construction workshop:

- ✓ **Robustness,**
- ✓ **Reliability and easy maintenance,**
- ✓ **Simplicity and flexibility of use,**
- ✓ **Maximum productivity.**

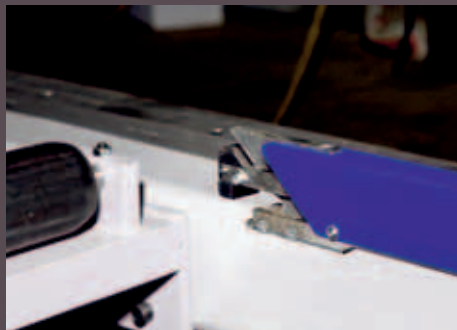
Important design factor:

The specific original design (drilling spindles in frame axis and rigid guides eliminating all deflection during machining) ensures a perfect stability and allows to combine:

- ✓ **Very high speed of execution,**
- ✓ **Flexibility and accuracy of machining,**
- ✓ **Possibility to use all types of drills.**



Clamping vise for scribing option



Hydraulic gripper: detail view



Internal view



Vertical tool changer



CNC disk marking unit

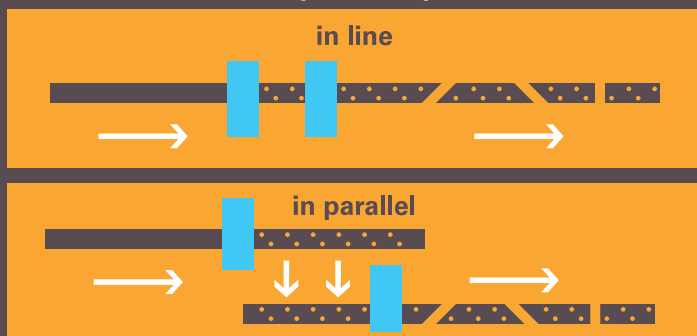


Mobile control panel

Main technical characteristics:

- ✓ Rigid and compact CNC propelling carriage with hydraulic clamping gripper,
- ✓ Bar length measurement with optical cells,
- ✓ Fast tool changer: 5 diameters, on each spindle or ergonomic manual quick-change chucks,
- ✓ Motions of drilling units: 20 m/mn,
- ✓ Fast machining: spindle rotating speed up to 3500 RPM,
- ✓ Possibilities of technical machining (scribing): to validate previously by our engineering departments,
- ✓ Industrial PC with software PLC,
- ✓ ProNC 2 programming software under Windows:
 - Very friendly and easy-to-use,
 - Numerous functions,
 - Graphic and table mode,
 - Nesting with optimization,
 - Telemaintenance,
- ✓ Hanging control panel with TFT 15" screen and tight keyboard with integrated mouse,
- ✓ Air conditioning in control cabinet,
- ✓ Standard network connection with DSTV file import.

Various layouts are possible:



Characteristics	HD 600		HD 900		HD 1200	
Minimum capacity (mm - inches)	80 x 10	3" x 3/8"	80 x 10	3" x 3/8"	80 x 10	3" x 3/8"
Maximum capacity (mm - inches)	600 x 400	24" x 16"	900 x 400	36" x 16"	1200 x 600	47 1/2" x 24"
Number of spindles	3		3		3	
Ø per spindle	1		1		1	
Available spindle power	12 / 9.2 / 7.5 kW		12 / 9.2 / 7.5 kW		12 / 9.2 / 7.5 kW	
Spindle type	SA 40		SA 40		SA 40	
Possible drilling diameter, depending on tooling (mm)	mini 8 / maxi 40		mini 8 / maxi 40		mini 8 / maxi 40	
Spindle rotating speed, depending on tooling and motor powers (RPM)	mini 200 / maxi 3500		mini 200 / maxi 3500		mini 200 / maxi 3500	
Maximum carriage speed	60 m / min.		60 m / min.		60 m / min.	
Standard working height (mm - inches)	830	32 2/3"	830	32 2/3"	830	32 2/3"
Equipments						
Hydraulic vertical adjustment of gripper	■		■		■	
Pop-marking, tapping, threading cycles	■		■		■	
External lubrication	■		■		■	
Lubrication through the drills	■		■		■	
Air conditioning system in electrical cabinet	■		■		■	
HD driver with new Pro NC 2 software	■		■		■	
Telemaintenance	■		■		■	
DSTV import	■		■		■	
Bar length measuring cycle	■		■		■	
Automatic measure of tool length	■		■		■	
Anti collision system on carriage	■		■		■	
Automatic gripper raising system during carriage return	■		■		■	
Stripping cycle	■		■		■	
Chips breaker cycle	■		■		■	
Profile scribing	□*		□*		□*	
Automatic tool changer: 5 diameters per spindle	□		□		□	
Sensing device for correct gripping	□		□		□	
Automatic pre-positioning of vertical spindle and clamp	□		□		□	
CNC length measuring back stop system	□		□		□	
Motorized gripper adjustment on 2 axes	□		□		□	
Video on carriage	□		□		□	
Vertical profile sensing device	□		□		□	
Horizontal profile sensing device	□		□		□	
Pop-marking underneath	□		□		□	
Chips conveyor	□		□		□	
Hydraulic unloading system	□		N.A.		N.A.	
Lateral loading or transfer chain systems	□		□		□	
Lifts for loading or transfer	□		□		□	
CNC disk marking unit	□		□		□	
HBP (Behringer) bandsawing machine in line or parallel	□		□		□	
<input type="checkbox"/> * Optional after technical validation <input type="checkbox"/> Optional <input checked="" type="checkbox"/> Standard						

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

**VERNET BEHRINGER RANGE:
COMPLETE RANGE OF EQUIPMENTS REQUIRED FOR WORKING PLATES AND SECTION PROFILES**

HD	High speed multispindle drilling lines for working profiles	RD	Cutting lines for notching all types of profiles
HBP	Bandsawing machines for profiles	PG / FG	Punching-drilling machines for plates
MAP	Punching-shearing lines for all types of profiles	MAG B	Combined marking-punching-drilling-cutting lines for plates
VP	Punching-drilling-shearing lines for angle sections	PS	Punching-shearing machines for flat bars and angle sections
VF	Punching-notching-shearing lines for angle sections and flat bars	UP / UPA	Portable hydraulic punching units for all types of profiles



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