



VANGUARD

Automatic CNC drilling,
drilling & band sawing,
drilling & coping lines
for profiles



TECHNICAL CHARACTERISTICS

MODEL		VANGUARD - DRILLING	
		603 DDV	1103DDV
Web height min/max	mm	80/610	80/1115
Flange width min/max	mm	30/305	30/610
Drill heads	No.	3	3
Tools per spindle	No.	6	6
Max hole diameter	mm	40	40
Spindle power	kW	17	17
Spindle speed	rpm	5000	5000/12
CNC axes	No.	7	7

MODEL		VANGUARD - DRILLING & BAND SAWING		
		603 DDVB	1003 DDVB	1103DDVB
Drill heads	No.	3	3	3
Spindle power	kW	17	17	17
Sawing capacity at 90°	min.mm	60 x 10	80 x 10	80 x 10
	max.mm	610 x 310	1015 x 450	1100 x 510
Blade size	mm	34 x 1.1	41 x 1.3	54 x 1.6
Blade speed	mt/min	150	170	170
Band saw motor	kW	7	9	15
CNC axes	No.	7+2	7+2	7+2

MODEL		VANGUARD - DRILLING & COPING	
		604 DDVFR	1104 DDVFR
Web height min/max	mm	80/610	80/1115
Flange width min/max	mm	10/305	10/500
Drill heads	No.	3	3
Oxy-fuel torch	No.	1	1
Plasma torch (option)	No.	1	1
CNC axes	No.	7+6	7+6

Please review FICEP's terms and conditions of sale and its machine tolerances that appear in its transactional documents which will be furnished upon request. All the specifications on this catalogue are mere indicative and not binding for the manufacturer. The above mentioned data refer to R=45 kg/mm² material. Dimensional tolerances of the raw sections are to UNI 5783-5784/73 standards.



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MADE IN ITALY

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It's Vanguard's turn, the newborn Ficep's drilling machine: it inherits all the modular features of the previous models, with the exception of a slightly lower DIRECT DRIVE spindle power range and axes speed as well as a very appealing price/performance ratio.

In addition, Vanguard can rely on the same electro-welded steel structure as the other drilling machine models included in the range, thus guaranteeing the maximum solidity and sturdiness while maintaining the proper "agility" for a dynamic performance.

Accordingly, the spindle casing is made from high quality iron casting - a material that guarantees efficient vibration dampening features.

All models are still supplied with a great array of optional accessories: lower scribing devices, chip conveyors placed under the machine (with no need of foundations), marking units and probe sensing systems.

Vanguard features linear axes activated by rack-and-pinion drive systems that can reach speed values of 12 m/min on the horizontal heads and 30 m/min on the vertical one. The ISO 40 spindle offers a power value of 17 kW, which is normally sufficient for the vast majority of beam-related operations



Vanguard drilling line combined with band saw



Vertical hold downs



Pegaso is the new generation CNC for Ficep machines. PC, CNC and PLC are all integrated on a single board, to have the maximum reliability. Pegaso is based on field bus technology: CanBus and EtherCAT, with up to 32 axes controlled.



Underside web scribing device



RELIABILITY IN THE WORKSHOP

- The Vanguard machines were designed to offer a straightforward but efficient solution. Consequently, they are conceptually simple yet suitable to work in a hostile environment for many years.
- The sturdy design has primarily contributed towards this end whereas its high quality components (such as Siemens motors and actuators, the Mitrol by Ficep numerical control) make the whole system even more reliable.
- With regard to the numerical control, throughout the years, Ficep has developed its own patented solution, which offers outstanding advantages. First of all, it allows the use of a single interface. Regardless of the machine type - being it a beam drilling machine, an angle bar or metal sheet cutting machine - the operator will find himself in a familiar working environment offering the outstanding advantages of an immediate use of the system.

