VANGUARD

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

TECHNICAL CHARACTERISTICS

MODEL		VANGUARD - DRILLING	
		603 DDV	1103 DDV
Section depth min/max	Inch	3-1/4" / 24"	3-1/4" / 43-3/4"
Flange height min/max	Inch	1-3/16" / 12"	1-3/16" / 24"
Drill heads	No.	3	3
Tools per spindle	No.	6	6
Maximum hole diameter	Inch	1-9/16"	1-9/16"
Spindle power at the tool	HP	23	23
Spindle speed	RPM	5,000	5,000
Spindle fast approach/return speed	IPM	196	196
CNC axes	No.	7	7

MODEL		VANGUARD - DRILLING & BAND SAWING		
		603 DDVB	1003 DDVB	1103 DDVB
Drill heads	No.	3	3	3
Spindle power at tool	HP	23	23	17
Sawing capacity at 90°	min.Inch	2-3/8" x 3/8"	3-1/4" x 3/8"	3-1/4" x 3/8"
	max.Inch	24" x 12"	40" x 17-3/4"	43-1/4" x 20"
Blade size	Inch	1.34" x .043"	1.61" x .049"	2.12" x .063"
Blade speed	FPM	492	557	557
Band saw motor	HP	10	12	20
CNC axes	No.	7+2	7+2	7+2

MODEL		VANGUARD - DRILLING & COPING	
		604 DDVFRC	1104 DDVFRC
Section depth min/max	Inch	1-3/16" / 12"	3-1/4" / 43-3/4"
Flange height min/max	Inch	3/8" / 12"	3/8" / 19-5/8"
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 system specifications that are in our formal proposal. The manufacturer reserves the right to change specifications and features from those indicated in this brochure. Current specifications and features are part of the formal quotation.

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FICEP

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drilling & band sawing,
drilling & coping lines for sections

FICEP since 1930

MADE IN ITALY

VANGUARD

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

The Vanguard is the most attractively priced of the new family of Ficep three spindle drilling lines while still retaining many of the features of the more comprehensive models. The Vanguard, like the rest of the Ficep three spindle drilling lines, features DIRECT DRIVE spindles so the power of the spindle motor is what is delivered to the actual tool. There is no power loss by having to transmit power through a gearbox.

The Vanguard is constructed on the same mechanical platform as the rest of the Ficep three spindle drilling lines to achieve commonality of parts to reduce manufacturing cost. The simplicity of the entire range of multiple spindle drilling lines is a major reason for their exceptional reliability and performance.

All Vanguard models are available with a comprehensive list of optional accessories such as four-side scribing, chip conveyors placed under the machine (without the need for a pit), marking units and more.

The Vanguard design features rack and pinion positioning and measuring systems for all linear axes for reduced maintenance and enhanced durability. Spindle positioning speeds of up to 98 FPM can be achieved in milliseconds.

The ISO 40 DIRECT DRIVE spindle develops 23 horsepower at the actual tool as there is no power loss by having to go through a gearbox to achieve the desired RPM. The Ficep DIRECT DRIVE spindle develops up to 5,000 RPM to take full advantage of today's high tech tooling.

Vanguard drilling line combined with band saw.

Vertical hold downs

Underside web scribing device

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 and simplicity. Pegaso is based on field bus technology: CanBus and EtherCAT, with up to 32 axes controlled.

FICEP

RELIABILITY IN THE WORKSHOP

- The Vanguard machines were designed to offer a straight forward but efficient solution. Consequently, they are conceptually simple yet suitable to work in the often hostile environment of today's structural steel fabrication shops.
- The sturdy yet simple design has contributed towards the industry leading reliability of the Ficep drill lines. The purchased components are of the highest quality and are locally available to further enhance the systems' reliability.
- With regard to the numerical control, over the years, Ficep has developed its own patented solution, which offers outstanding advantages. First of all, it allows the use of a standard human interface regardless of the machine type. The entire family of Ficep drilling, robots, angle and plate lines feature the same Windows driven operator screens.