



STEEL
CONSTRUCTION

ANGLES & FLATS
BEAMS & PIPES
PLATES
SURFACE TREATMENT
ROBOTIC WELDING
SOFTWARE & AUTOMATION



VANGUARD

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



Montfort International Itée

H VANGUARD

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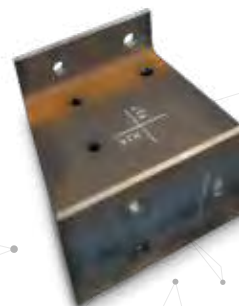
It is now the Vanguard's turn to join the FICEP line of drilling lines. This new model drilling line incorporates the modular features of the previous models at an appealing price/performance ratio.

The Vanguard features the same welded steel structure as the other models of FICEP drilling lines. This guarantees maximum stability and rigidity for enhanced drilling performance.

The drill spindles feature a casting structure composed of leading edge material. This design guarantees efficient vibration dampening characteristics.

All models are available with diverse optional features such as underside scribing device, chip conveyor (which require no special foundation), marking unit and probing system.

All spindle positioning in the vertical and horizontal axis is accomplished with rack and pinion drive systems at speeds of 472 IPM. The DIRECT DRIVE spindles deliver 100% of the 42 HP motor's power to the ISO 40 tool holder and corresponding tool.



Vertical hold downs



6-position automatic tool changer

Vanguard drilling line combined with Nozomi coping robot





Pegaso is the latest generation CNC for FICEP lines where the PC, CNC and PLC are all integrated into a single circuit board for maximum reliability. Pegaso is based upon a field bus technology using CanBus and EtherCAT for controlling up to 32 separate CNC axes.



Vanguard drilling line combined with Katana band saw



Underside web scribing device

Reliability in the workshop

- The Vanguard drilling lines reflect FICEP's market-leading years of experience engineering drilling lines for structural steel. The system is extremely productive yet it reflects a basic simplicity of design for enhanced reliability even in the most hostile environments.
- The design features the utilization of standard commercially available components such as Siemens drives. The CNC control is engineered by FICEP's Mitrol facility to reflect simplicity of hardware married with powerful software that has evolved over years of experience and understanding of the needs of the market.
- The patented CNC technology developed by FICEP offers unique solutions developed from a comprehensive understanding of the required processes. This powerful CNC control platform is used for the diverse FICEP product line for such operations as drilling, sawing, shearing, notching, marking and thermal cutting. The operator interface features a commonality for operator utilization between all the FICEP CNC lines.



TECH SPECS

VANGUARD Automatic CNC multispindle Drilling line	453 VN 453 VN-R	603 VN 603 VN-R	1003 VN 1003 VN-R	1103 VN 1103 VN-R	1203 VN 1203 VN-R
Section size [min.inch]	2-3/8"(*) x 3/8"	2-3/8" x 3/8"	2-3/8" x 3/8"	3-1/4" x 3/8"	3-1/4" x 3/8"
Section size [max.inch]	18" x 18"	24" x 18"	40" x 18"	43-7/8" x 20"	48" x 24"
Drilling heads [no.]	3	3	3	3	3
Drilling tools per head [no.]	6	6	6	6	6
Drilling diameter [max.inch]	1-9/16"	1-9/16"	1-9/16"	1-9/16"	1-9/16"
Spindle power [HP]	42	42	42	42	42
Spindle speed [max.RPM]	5,000	5,000	5,000	5,000	5,000
Machine weight [lbs.]	18,730	20,940	20,940	22,040	22,040

*Angles, square and rectangular tubes with min. side of 2".

VANGUARD Drilling & band sawing	453 VNB	603 VNB	1003 VNB	1103 VNB	1203 VNB
Motor power [HP]	12	12	12	20	20
Max band saw blade speed [FPM]	558	558	558	558	558
Band saw blade size [inch]	1.61" x .051" x 286"	1.61" x .051" x 286"	1.61" x .051" x 286"	2.12" x .063" x 390-1/2"	2-5/8" x .063" x 354"
Machine weight [lbs.]	28,700	30,865	30,865	47,400	36,200

VANGUARD Drilling & coping	604 VNFRC	604 VNRAZ	1204 VNFRC	1204 VNRAZ
Oxy-fuel torch [no.]	1	-	1	-
Plasma torch [no.]	1	1	1	1
Machine weight [lbs.]	40,785	40,785	41,890	41,890