



ORIENT

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

TECHNICAL CHARACTERISTICS

MODEL		ORIENT - DRILLING		
		601 DD 601 DD LASER	1201 DD 1201 DD LASER	2001 DD
Web height Min/Max	Inch	3-1/4" / 24"	3-1/4" / 48"	3-1/4" / 80"
Flange width Min/Max	Inch	3/8" / 12"	3/8" / 24"	3/8" / 24"
Drill heads	No.	1 (2)	1 (2)	1 (2)
Tools per spindle	No.	6 (12)	6 (12)	6 (12)
Max hole diameter	Inch	1-9/16"	1-9/16"	1-9/16"
Spindle power	HP	23	23	23
Spindle speed	Inch	5,000	5,000	5,000
CNC axes	No.	4	4	4

MODEL		ORIENT - DRILLING & BAND SAWING				
		601 DDB	1001 DDB	1101 DDB	1201 DDB	2001 DDB
Drill heads	No.	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)
Spindle power	HP	23	23	23	23	23
Sawing capacity at 90°	Min. Inch	2-3/8" x 3/8"	3-1/4" x 3/8"	3-1/4" x 3/8"	3-1/4" x 3/8"	7-7/8" x 3/8"
	Max. Inch	24" x 24"	40" x 17-3/4"	43-3/8" x 20"	49-1/4" x 24"	78-3/4" x 23-5/8"
Blade size	Inch	1.34" x .043"	1.61" x .051"	2.12" x .063"	2.63" x .063"	2.63" x .063"
Blade speed	FPM	492	557	557	557	557
Band saw motor	HP	10	12	20	20	24
CNC axes	No.	4+2	4+2	4+2	4+2	4+2

MODEL		ORIENT - DRILLING & COPING		
		602 DDFRC	1202 DDFRC	2002 DDFRC
Web height Min/Max	Inch	3-1/4" / 24"	3-1/4" / 48"	3-1/4" / 80"
Flange width Min/Max	Inch	3/8" / 12"	3/8" / 24"	3/8" / 24"
Drill heads	No.	1 (2)	1 (2)	1 (2)
Oxy-fuel torch	No.	1	1	1
Plasma torch (option)	No.	1	1	1
CNC axes	No.	4+6	4+6	4+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.



FICEP S.p.A. - HEADQUARTERS
via Matteotti, 21 • 21045 GAZZADA SCHIANNO VA - ITALY
Tel +39 0332 876111 • Fax +39 0332 462459
E-mail: ficep@ficep.it • www.ficepgroup.com



FICEP CORPORATION
2301 Industry Court - Forest Hill Industrial Park
Forest Hill, MD 21050
Tel +1 410 588-5800 • Fax +1 410 588-5900
E-mail: info@ficepcorp.com • www.ficepcorp.com



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MADE IN ITALY

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The Orient is the latest generation of a historical tradition of mono spindle drilling system invented by Ficep over many years to process beams and sections in an extremely quick and versatile manner at a very appealing price/performance ratio.

The single spindle Orient drilling line for the structural steel fabrication industry represents a unique combination of capability, performance and level of investment. This unique design, with a 180 degree spindle rotation in just one second, has proven to be a favorite in all corners of the world market.

FAST

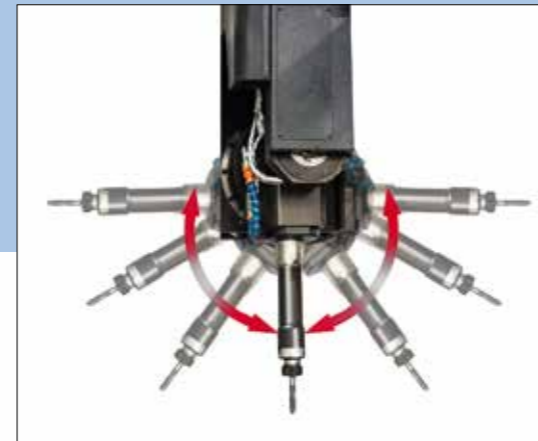
- The drill head positions at a high rate of speed to take advantage of the combined and simultaneous positioning of two slides operated by the CNC controlled servomotors. The slides move on precision roller guides to ensure longevity and a high degree of accuracy.
- The powerful DIRECT DRIVE spindle and spindle rotation motor is optimized for the drill head rotation to any of the three spindle positions at high rate of speed to minimize any non productive time in the cycle.
- The mechanical spindle feed allows for high speed drilling with carbide tools plus such operations as tapping and countersinking, for example.
- The material is positively positioned to the programmed location by means of a dual rack and pinion positioning system. The internal material clamping is quick and positive thanks to double-clamp vices that remain in contact with the section during positioning and drilling.



Orient drilling line combined with a robotic coper



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: CAN bus and Ether CAT, with up to 32 axes controlled.



Orient rotating drill head



COST EFFECTIVE:

- The drill head performance offers the same productivity as the larger machines with multiple spindles, although it represents a significant cost saving.
- The line can be easily installed as it does not require a special foundation and the field bus reduces the required number of connections and subsequent installation time.
- A reduction in the number of required mechanical components (spindles, motors, guides, etc.) and electrical elements reduces the cost and also increases the system's reliability.



Double gripper system for reduced overall dimensions



Second drill head with automatic tool changer



6 position tool changer

