



Orient drilling line combined with oxy-fuel/plasma cutting capability

TECH SPECS

AUTOMATIC CNC MONOSPINDLE DRILLING LINE ORIENT	601 DD	1201 DD
Section size [min. mm]	80x10	80x10
Section size [max. mm]	610x305	1200x610
Drilling heads [no.]	1 (2)	1 (2)
Drilling tools per head [no.]	6 (12)	6 (12)
Drilling diameter [max. mm]	40	40
Spindle power [kW]	17	17
Spindle speed [max. RPM]	5000	5000
Machine weight [kg]	10000	12000

DRILLING & BAND SAWING - ORIENT	601DDB	1001DDB	1101DDB	1201DDB
Section size at 90° [min. mm]	80x10	80x10	80x10	80x10
Section size at 90° [max. mm]	610x305	1015x450	1115x500	1220x610
Motor power [kW]	9	9	15	15
Band saw blade speed [max. mt/min]	150	170	170	170
Band saw blade size [mm]	41x1.3x6700	41x1.3x7880	54x1.6x9920	67x1.6x10500
Machine weight [kg]	13700	18000	23500	24600

DRILLING & COPING ORIENT	602DDRC	1202DDRC
Oxy-fuel torch [no.]	1	1
Plasma torch [no.]	1	1
Machine weight [kg]	17000	19000

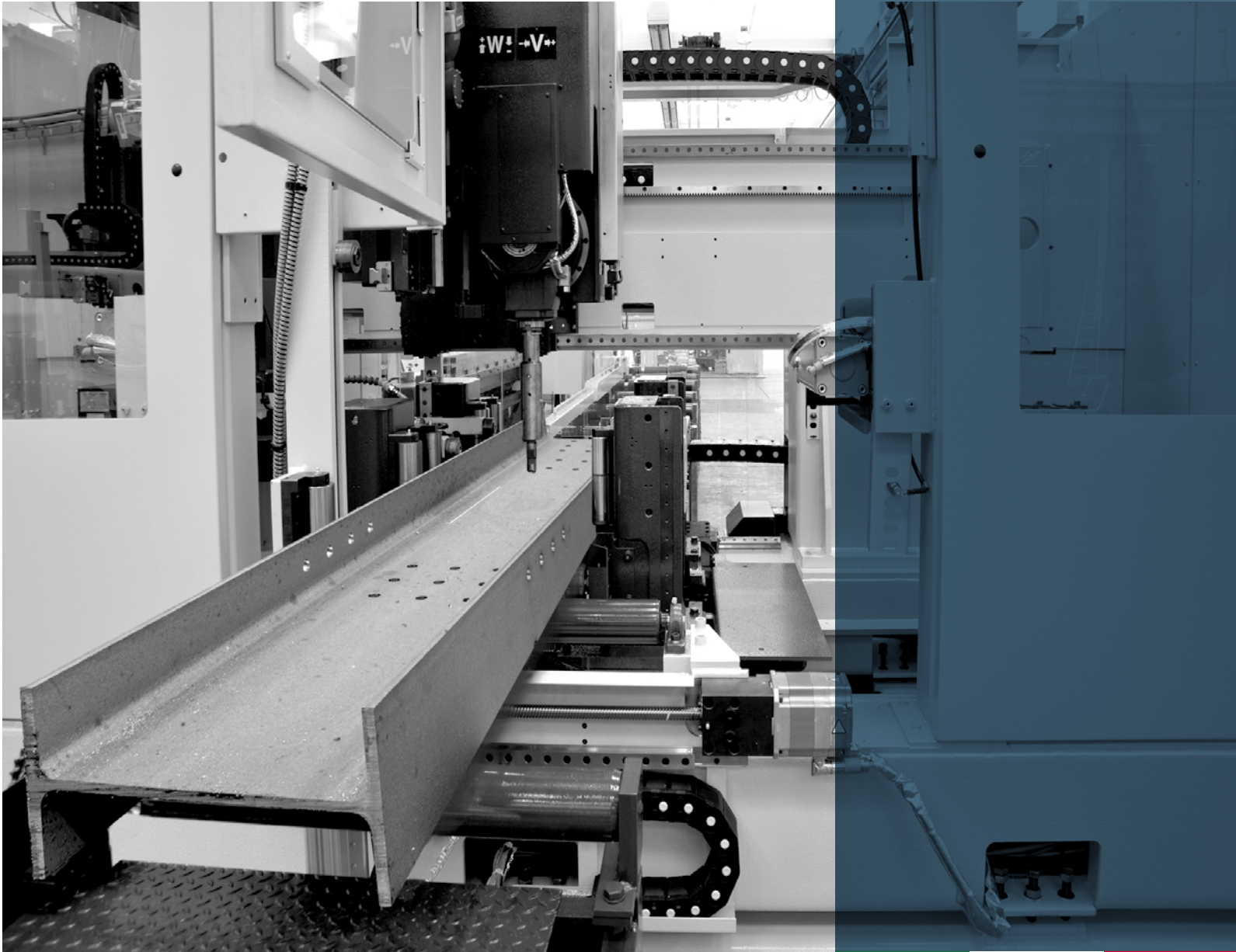
Please review FICEP's terms and conditions of sale and system specifications that are in our formal proposal. The manufacturer reserves the right to change specifications and features from those indicated in this brochure. Current specifications and features are part of the formal quotation. The raw material mentioned on this catalogue are in accordance with the following standards: UNI EN 10025 for technical conditions; UNI ISO 5679 - UNI ISO 5680 - UNI 5397 - UNI 5398 - UNI EN 10024 - UNI EN 10034 - UNI EN 10279 - UNI EN 10056-1 - UNI EN 10056-2 for dimensional tolerances; UNI EN 1090 - UNI EN 9013 for pieces execution tolerances.



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ORIENT

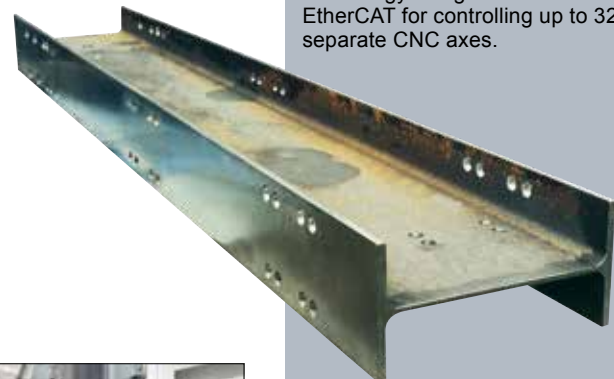
Automatic CNC drilling,
drilling & band sawing,
drilling & coping lines for
sections

The Orient is the latest generation of single spindle drilling systems for structural steel sections that have been engineered by FICEP over the past decades. This system, offers an extremely productive and flexible way to process structural steel at a very desirable price/performance ratio.

The Orient has been proven to generate exceptional productivity in numerous installations worldwide. The decades of industry leading experience of engineering drilling lines for structural steel is evident in the simple yet unique design of the Orient. This combination of innovative engineering with simplicity of design makes the Orient an exceptional solution for many applications.

FAST

- The drill head is positioned at high speed while taking advantage of simultaneous positioning of two axis operated by the CNC and servomotors. The axis motion is guided on precision roller guides.
- The powerful DIRECT DRIVE spindle delivers 100% of the motor's power to the tool and is rotated to either flange or the web position in seconds.
- The drill spindle, with a positive mechanical feed, generates productive drilling operations with high performance tools.
- The material is transported through the line with a CNC controlled positioning device. The roller clamping system is quick and uses different pressures to reduce the clamping cycle.



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.

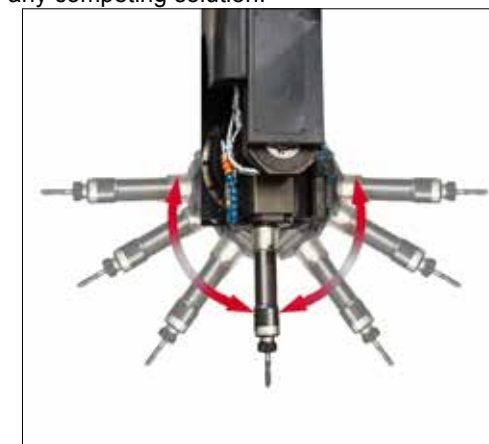


Orient configured with optional second drill head



COST EFFECTIVE

- In applications where the holes are not aligned between the flanges and the web the Orient can prove to be as productive as three spindle drilling lines without sub-axis positioning at substantial cost savings.
- Integrated electrical and CanBus technology simplify the installation which does not require a special foundation.
- The single spindle design of Orient drastically reduces the number of required mechanical and electrical components which enhances reliability. This reduction of the number of required components, in conjunction with the usage of leading edge electronics, achieves a level of simplicity that cannot be achieved by any competing solution.



Orient rotating drill head

Second positioning arm for reduced overall dimensions



Optional second drill head with automatic tool changer



6 position tool changer



Play video

