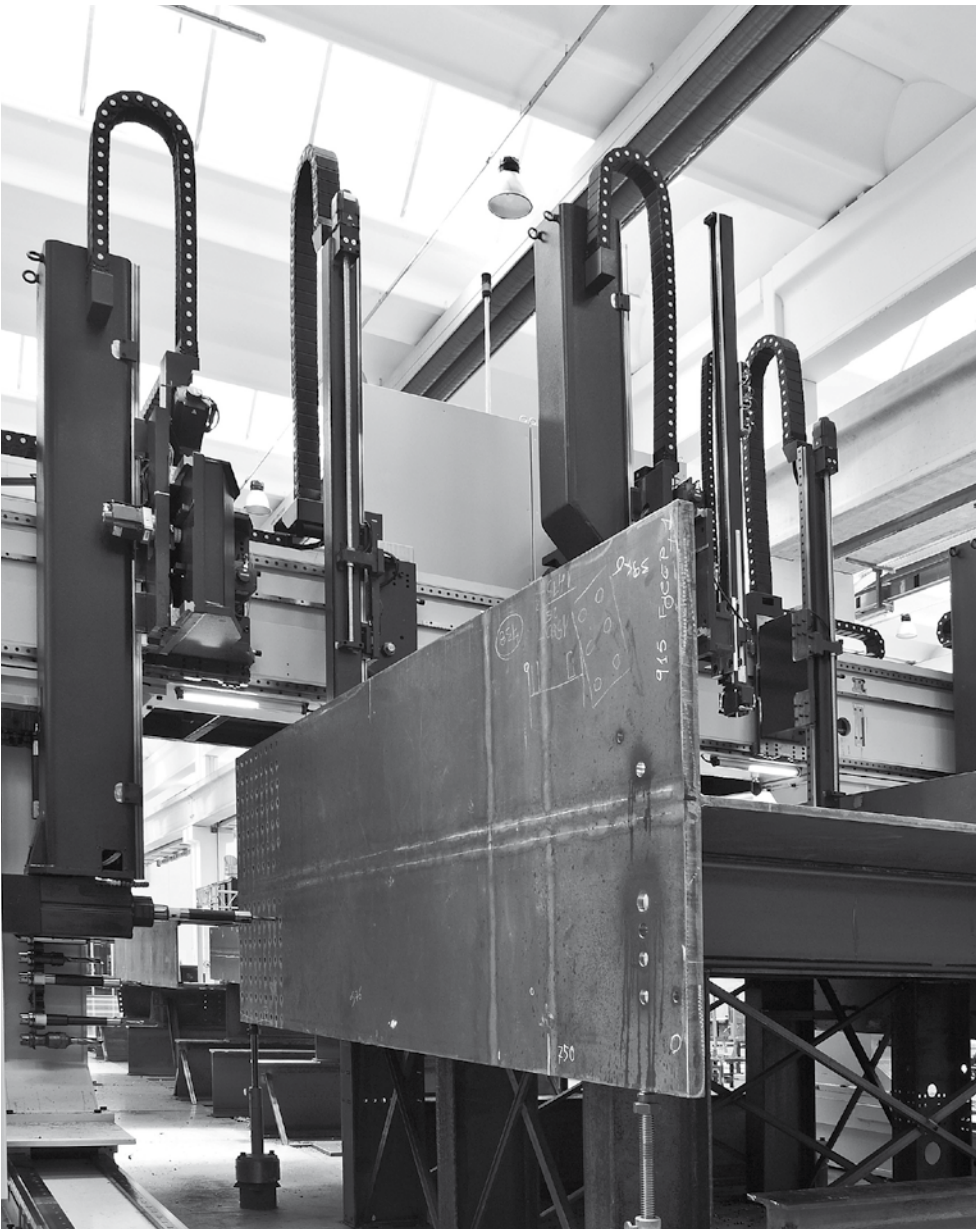




MAIN ADVANTAGES

- Capable of processing special profiles such as welded girders and cambered beams.
- Auxiliary sub-axes maximizes spindle utilization for diverse and productive operations.
- The DIRECT DRIVE spindles deliver 100% of the motors power to the tool at up to 5,000 RPM for exceptional industry leading productivity.
- 180° web spindle rotation also permits milling of both ends of sections.



TECH SPECS

AUTOMATIC GANTRY CNC DRILLING LINE - ENTERPRISE	2003/8 GDD	2503/10 GDD	3003/12 GDD	3003/18 GDD	4003/12 GDD	4003/18 GDD
Profile size [min mm]	200x100	200x100	200x100	200x100	200x100	200x100
Profile size [max mm]	2000x800	2500x1000	3000x1200	3000x1800	4000x1200	4000x1800
Drilling heads [no.]	3	3	3	3	3	3
Drilling tools per head [no.]	6	6	6	6	6	6
Drilling diameter [max mm]	40	40	40	40	40	40
Spindle power [kW]	31	31	31	31	31	31
Spindle speed [max RPM]	5000	5000	5000	5000	5000	5000
Spindle sub-axis stroke [mm]	250	250	250	200	250	200
Machine weight [kg]	17000	17500	18000	22000	18500	23000

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 for pieces execution tolerances.



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01-2019 Advanced Agency VA



**ENTERPRISE**

Automatic gantry CNC drilling  
line for bridge girders and  
welded structures



# H ENTERPRISE - Automatic gantry CNC drilling line for bridge girders and welded structures

The Enterprise gantry drill features innovative laser probing technology for the productive processing of bridge girders and large welded structures. An expanded processing envelope of 4000 mm x 2000 mm addresses a wide range of applications. The gantry travel can be up to 35000 mm to accommodate either long structures or multiple short parts with loading and unloading in masked time. This expansive processing window, with laser scanning technology, can eliminate the laydown process and manual drilling in the fabrication of bridge girders that are frequently cambered or curved. The exceptional size capability also lends itself to process box girders, trusses and large welded structures.

Prior to any spindle operations laser technology is employed to scan all material surfaces to achieve accurate hole locations. The movable gantry design of the Enterprise is the ideal solution for the fabrication of large and heavy parts that are difficult to convey since they remain stationary during all system processes.

Each of the drill spindles feature a sub-axis movement to facilitate milling applications and the drilling of holes on three surfaces simultaneously even if they are offset to maximize the productivity of the system. The drill spindles feature a DIRECT DRIVE system that delivers 100% of the motors power to the tool at up to 5,000 RPM. The vertical spindle also has the capability to rotate up to 90° in each direction to permit end-milling routines such as weld prep.



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.



## New auxiliary axes

The three DIRECT DRIVE spindles are optionally equipped with an auxiliary "X" axis stroke of 250 mm that allows independent control of the spindle. This capability permits the part and the gantry to remain stationary while the spindle sub-axis motion permits operations in all three surfaces simultaneously even if the holes for example are offset. Drilling, scribing, and milling for such operations as pocketing, slotting, weld prep, helical milling of large holes and more can occur simultaneously for exceptional productivity.



Non-contact triple laser probing



Rotating drilling head for end milling



Horizontal spindle with automatic tool changer