



STEEL
CONSTRUCTION

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



TIPO G

Automatic CNC drilling, milling
and thermal cutting system for
large plates





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The FICEP Tipo G represents an innovative system for the processing of plates that combines the advantages of a pull through style plate processor with a gantry style system with sub-axis spindle positioning. This combination of both system capabilities gives the Tipo G a unique edge over alternative pull through plate processors.

Lateral material clamps, auxiliary spindle sub-axis and automatic small parts unloading

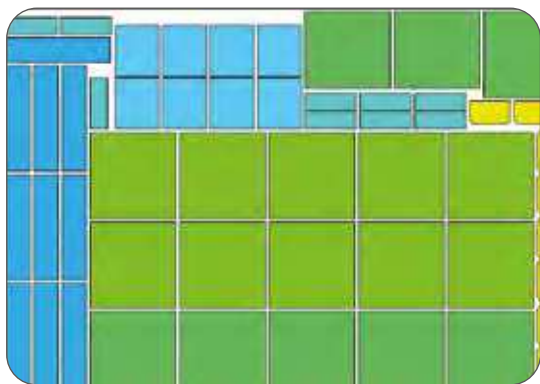
The Tipo G consists of a rigid dual bridge construction which supports the drill spindles on both sides. The welded bridge frame achieves unique structural rigidity to support all drilling, milling, marking and thermal cutting operations.

The multiple hydraulic material clamp assemblies

are guided along robust prismatic ways. The clamps are positioned with a precise rack and pinion system to achieve industry-leading tolerances. The clamp repositioning system can be utilized to process longer plates when required.

Multiple material clamps that traverse the entire width of the plate being processed secure the plate during sub-axis spindle positioning. All operations within the sub-axis positioning range of 15-3/4" are accomplished without the need to unclamp and re-clamp the plate after each spindle function. This feature increases the system productivity, facilitates such operations as milling and increases the part accuracy.

The addition of the automatic small parts unloading system facilitates the processing of small and medium size parts.



Automatic nesting through dedicated software



Automatic small parts unloading system



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.

Hypertherm
Cut with confidence™
True Hole™





New hold-downs

The Tipo G can be equipped with up to two totally independent drilling units each with an automatic tool change system that accommodates up to 24 positions per head. Each of the two spindles has its own sub-axis so they are both fully functional within the processing window even when the operations are not in line. This doubles the spindle productivity of the system in the same footprint as a single spindle system.

A system of multiple material clamps secure the entire width of the stock plate on both the entry and exit side of the Tipo G. This ensures unique accuracy as the repetitive clamp and re-clamping functions are eliminated within a pattern of holes or similar operations.

A material upholding device travels directly beneath each drill spindle to support the plate to eliminate objectionable vibration during such operations as drilling.

Bevel plasma cutting

In addition to the drilling heads the Tipo G can be equipped with a maximum of two plasma torches (standard and/or bevel) and two oxy-fuel torches.



Automatic tool changer



Hold-downs and material upholding supports



Main optional equipment

- Extendable infeed and outfeed conveyors for plates up to 40 ft long
- Automatic small parts unloading system
- Scribing device
- Second drill head with a 24-position automatic tool changer
- Brush for drill chip removal
- Oxy-fuel torches
- Exhaust system to filter particulate matter



TIPO G Automatic CNC drilling and thermal cutting system for plates	TIPO G25LG	TIPO G31LG
Plate size [max. inch]	100" x 236"	122" x 236"
Drilling heads [max. no.]	1	2
Drilling tools per head [max. no.]	24	24
Drilling diameter [max. inch]	1-9/16" (9-7/8")	1-3/4" / 2-3/8" (15-3/4")
Drilling thickness [max. inch]	4"	4"
Spindle power [HP]	20	34
Spindle speed [max. RPM]	7,000	7,000
Plasma straight torches [max. no.]	1	2
Plasma bevel torches [max. no.]	1	2
Oxy-fuel torches [max. no.]	2	2

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