



POPULAR OPTIONS

- Extend both the infeed and outfeed tables to process plates up to 40 ft. in length
- Trap door to unload processed pieces
- Scribing device
- Second drill head with independent sub axis with a 24 position automatic tool changer to increase productivity by approximately 40%
- Brush for the orderly removal of both large and small drill chips
- Multiple Hypertherm plasma torches for straight and bevel cutting
- Multiple oxy-fuel torches
- Dry exhaust system to address dust generated from plasma cutting



TECHNICAL CHARACTERISTICS

MODEL		TIPO G25 LG	TIPO G31 LG
Material			
Minimum infeed plate size	Feet	8 ft. x 20 ft.	8 ft. x 20 ft.
Maximum infeed plate size (standard)	Feet	20 ft. x 8 ft.	20 ft. x 10 ft.
Minimum outfeed piece size	Inch	6"	6"
Drilling unit			
Vertical drill heads	No.	1	1 (2)
Tools per drill head	No.	8 (24)	24 (24)
Spindle RPM	RPM	6000 (7000)	6000 (7000)
Spindle taper		ISO 40	ISO 40
Spindle at S3 rating	HP	20	35
Drilling diameter (max)	Inch	1-9/16"	1-9/16"
Hole diameter with helical milling (max)	Inch	10"	15-3/4"
Other characteristics			
Maximum positioning weight	Lbs	11,000	11,000
Maximum plate linear weight	Lbs per foot	500	500
Longitudinal transferring speed	FPM	98	98
Cross positioning speed	FPM	183	32
Working level's height	Inch	33-1/2"	33-1/2"

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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 quotations.



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TIPO G

Automatic CNC drilling, milling and thermal cutting system for plates



MADE IN ITALY



TIPO G

Automatic CNC drilling, milling and thermal cutting system for plates

The Tipo G system is the most productive line currently on the market to process plates. This innovative design by FICEP combines many of the advantages of its Gemini gantry style plate processing systems with that of its pull through Tipo systems.

The ability of the Tipo G to be furnished with dual spindles, each with their own independent sub axis, increases the productivity over single spindle lines by approximately 40%. The sub axis is the key as both spindles are typically engaged drilling, milling or scribbing simultaneously even if the holes, for example, are not in line.

The Tipo G combines the features of lateral material clamps and independent sub axis for one or two spindles with automatic part unloading.

The Tipo G features a double bridge structure with the spindle or spindles located within the two bridges to maximize spindle guidance and rigidity.

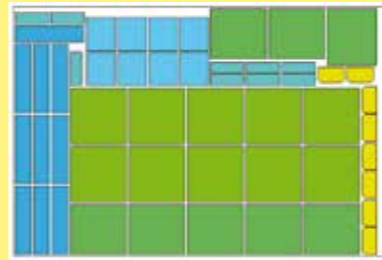
The lateral grippers, which are positioned by means of a rack and pinion system, deliver exceptional accuracy and performance as the material surface, edge condition or part length does not influence the accuracy. Even irregular shaped stock plates or remnants can be processed with the positive positioning system. The lateral clamping system also makes full use of the entire plate length to maximize material utilization.

Once the material clamp is engaged, the sub axis of the Tipo G produces all drilling, scribbing or milling operations within the clamping window. This eliminates the need to clamp and unclamp or position the material in the length direction for each spindle's operation.

The integration of an automatic part unloading system makes the Tipo G ideal for small to medium size parts.



Trap door for part unloading



Automatic nesting through proprietary software



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 EtherCAT, with up to 32 axes.



New hold-downs

The Tipo G can be equipped with up to two drilling units that can have available up to 24 tools for each spindle.

Each spindle is equipped with an integrated hold down to keep the plate secure during processing and to avoid material vibrations that could compromise the part quality and tool life. The spindle hold downs are provided with transfer balls on the underside so they can remain in contact for such operations that require spindle movement in the "X" or "Y" axis.

Below each spindle is an upholding device that moves in unison with the spindle to counteract the downward spindle force.

Bevel plasma cutting

In addition to the drilling heads, the Tipo G can be equipped with a maximum of two plasma torches (straight or bevel) and a maximum of three oxycutting torches.

Hypertherm
Cut with confidence™
True Hole™



Automatic tool changer



Lateral material clamps and dual spindle configuration