



TIPO A

Automatic CNC drilling and thermal cutting line for large plates





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TIPO A 25LG

Suitable for:

- Manufacturers of bridges and viaducts
- Shipyards
- Manufactures of agricultural and earth moving machinery
- Heavy structural steel manufactures

The main feature of Ficep CNC working centers is to automatically process the largest plates available on the market without thickness limits.

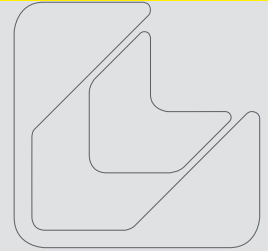
The CNC line A 25LG can carry out in one cycle the main operations required in the steel construction industry such as drilling, milling, pointing, tapping, marking and cutting with the following advantages:

- Reduced overall dimensions
- Reduced material handling
- High processing speed
- Variety of operations
- Precision
- Productivity
- Optimization



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TIPO A 16

- Over dimensioned portal frame.
- Two independent drilling heads moving on cross guides through balls screw for the positioning and working axis.
- Each head has a 19 kW motor, with of the high speed rotation spindle (3000 RPM).
- Double tool change system with 6 positions.
- CNC controlled marking unit with 38 positions.
- Plasma cutting torch, moving on the same axis of the drilling head. Possibility to install also a second thermal cutting torch.



HARDWARE & SOFTWARE

PEGASO SYSTEM

Pegaso is the new generation CNC for Ficep machines. PC, CNC and PLC are integrated on a single board, to have the maximum reliability. Pegaso is based on field bus technology: CanBus and EtherCAT, with up to 32 axes controlled.

The CNC is positioned on a mobile control panel, so the operator can have a complete view of the machine. The most of input / output interface devices and brushless motors drives are located on the machine.

Programming

- Simplified data input with graphical direct preview
- 3D piece view
- Diameter programming with automatic tool assignment
- Linear, matrix and flange patterns
- Programming with millimeters or inches (also fractions)
- Linear nesting

Processing

- Automatic tool assignment
- Unit offset automatic summing
- Automatic grouping and ordering of operations
- Setup modification lines generation
- Rototraslation of executing program to follow sheet orientation

Execution

- Automatic cycle stop for tool setup modification
- Probing capability to adjust program quotes to actual material position
- Automatic software to prevent machine unit collisions
- Automatic software to prevent tool collisions against material
- Tool management with operating parameters and tool life management
- Messages and alarm notifications to the operator using customer language with history log
- Graphic screens to display machine pieces handling tables
- Production times recording



PC characteristics

- CPU AMD Ontario 1.6 GHz Dual Core
- Ram 2 Gb
- Disk Compact Flash 8 Gb
- USB 6 High Speed 2.0 (one on the front)
- LAN Ethernet 10/100/100 Mbit
- Keyboard Industrial PS2
- Display LCD Led technology 15 " with touch screen
- Industrial panel with 42 push buttons
- Op. Sys. Windows 7 Embedded with EWF filter
- Teleservice software for remote diagnostics



MAIN TECHNICAL SPECIFICATIONS

MODEL		Tipo A 16	Tipo A 25 LG	Tipo A 31
Specifications of the large plate to be processed (entry side):				
Length	max.mm	3000 (118")	6000 (20')	6000 (20')
	min. mm	1500 (59")	2500 (98.5")	2500 (98.5")
Width	max.mm	1600 (63")	2540 (100")	3100 (10')
	min. mm	400 (15.75")	500 (20")	400 (15.75")
Specifications of the processed piece (exit side):				
Length	mm	200 (8")	200 (8")	200 (8")
Width	mm	150 (6")	150 (6")	150 (6")
Max. positioning weight	Kg	5000 (11,000 lbs)	5000 (11,000 lbs)	7500 (16,500 lbs)
Longitudinal transferring speed	m/mm	30 (98 FPM)	30 (98 FPM)	30 (98 FPM)
Vertical drill head	no.	1	1 (2)	1 (2)
Spindle per vertical drill head	no.	1	1	1
Maximum hole diameter	mm	40 (50) - 1 9/16" (2")	40 (50) - 1 9/16" (2")	40 (50) - 1 9/16" (2")
Maximum thickness that can be drilled	mm	130 (5")	100 (4")	130 (5")
Spindle rotation motor (a.c.)	kW	19 (25 HP)	19 (25 HP)	19 (25 HP)
Spindle rotation speed with continuous adjustment from program	RPM	180 ÷ 3000	180 ÷ 3000	180 ÷ 3000
Automatic tool changer at 6 positions	no.	1	1 (2)	1 (2)
Optional marking unit at 38 stations	kN	80 (9.7 US tons)	80 (9.7 US tons)	80 (9.7 US tons)
Oxycutting torch	no.	1	1 (2)	1 (2)

since 1930



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