TIPO A
Automatic CNC drilling and thermal cutting line for large plates
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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
Automatic CNC drilling and thermal cutting line for large plates
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.
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

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