



STEEL  
CONSTRUCTION

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



**RAPID**

Automatic CNC high-speed drilling  
and cutting lines for angles



Montfort International Itée

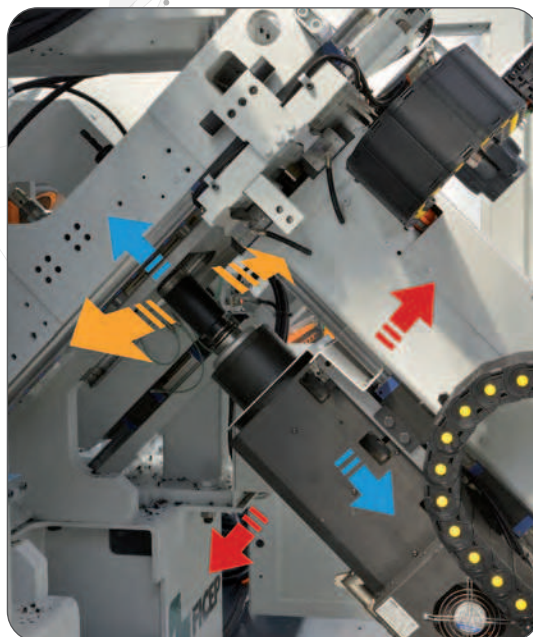
# L RAPID

## Automatic gantry CNC drilling, milling and thermal cutting systems for large plates

The close tolerance requirements and engineering specifications required for many applications can easily be addressed by the new RAPID high-speed angle drilling lines. The exceptional productivity is achieved with spindle sub-axis positioning that is capable of processing offset holes in both legs simultaneously. This unique design makes the Rapid an economical and productive solution even on the largest of angles.

### Main features:

- The high-speed drilling units are equipped with powerful and efficient direct drive spindles. Positioning is accomplished with servo drives through a rack and pinion system.
- The drill units can be equipped with either a 3 or 6 position automatic tool changer.
- Each spindle is equipped with a 7-7/8" sub axis stroke in the X-axis to perform milling operations, slotting in either direction and drilling of offset holes in each leg of the angle simultaneously.
- A high-speed material positioning carriage driven with rack and pinion achieves industry leading productivity and accuracy.
- A laser-sensing device automatically measures the stock length prior to processing.



Spindle sub-axis positioning



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.





**Cut to length operations:**

Based upon the fabrication application and specification, there are two different cut to length options available:

- A single cut shear with an innovative hold-down system to ensure cut quality. All shearing blades are manufactured internally to guarantee the best quality and extended tool life.
- A circular saw using a high-speed carbide tipped saw blade for 90° angle cutting.



Hydraulic shearing unit



Circular saw

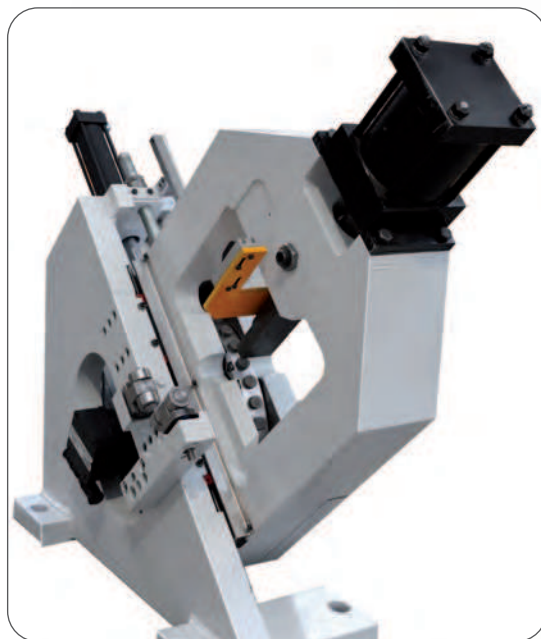


## Main optional equipment

- Part identification is possible with either a cartridge type or a programmable marking press.
- Tooling is available to allow milling operations of the angle heel.
- Infeed and outfeed cross transfer tables are available to allow automatic loading/unloading of stock length material and finished parts.
- A unique rotary stock length loading system with V-shaped supports is available for the lowering of the next stock length onto the infeed idle conveyor.
- Infeed and outfeed conveyors of various lengths.
- A system of special transfer tables to discharge angles at different lineal positions along the outfeed conveyor to either the left or right as programmed.



Cartridge-type marking unit



38 position programmable marking press

<b>RAPID</b> Automatic CNC high-speed drilling and cutting lines for angles	<b>RAPID 16T</b>	<b>RAPID 20T</b>	<b>RAPID 25T</b>	<b>RAPID 35T</b>
Angle size (60,000 PSI) (Min. inch)	1-5/8" x 1-5/8" x 3/16"	1-5/8" x 1-5/8" x 3/16"	2-1/2" x 2-1/2" x 1/4"	2-1/2" x 2-1/2" x 1/4"
Angle size (60,000 PSI) (Max. inch)	6" x 6" x 3/4"	8" x 8" x 1"	10" x 10" x 1-9/16"	13-3/4" x 13-3/4" x 1-9/16"
Drilling heads (no.)	2	2	2	2
Drilling tools per head (no.)	3 (6)	3 (6)	3 (6)	3 (6)
Drill diameter (Max. inch)	1-9/16"	1-9/16"	1-9/16"	1-9/16"
Spindle power (HP)	15 (20)	15 (20)	25 (36)	25 (36)
Spindle speed (Max RPM)	3,500	3,500	3,500	3,500
Spindle sub-axis stroke (inch)	7-7/8"	7-7/8"	7-7/8"	7-7/8"
Cutting unit	Shear (disc saw)	Disc saw (shear)	(Disc saw-Shear)	(Disc saw)

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