

# Automated Punching and Cutting Lines

The **ALFA** product line is designed for automated punching, marking and shearing of flat bars. This yields a final product in one single process, significantly increasing productivity, maximizing efficiency, and dramatically reducing cost and downtime.

**ALFA** is the ideal choice for steel truss construction, bridge building, manufacturing of electric power transmission equipment, steel fabricators, marine metal fabrication and for high-volume flat bar processing.

ALFA					
	ALFA 150	ALFA 500	ALFA 500/150	ALFA 500/165T	ALFA 500/220T
Flat Bar Size (Min.)	1 x 1/8"	2 x 3/16"	2 x 3/16"	4 x 3/8"	4 x 3/8"
Flat Bar Size (Max.)	6 x 3/8"	20 x 3/4"	20 x 3/4"	20 x 1-1/4"	20 x 1 1/4"
Horizontal-Wing Punches	2	3	3	Up to 3	Up to 3
Maximum Diameter	1- 1/4"	1-9/16"	1-9/16"	1-9/16"	1-9/16"
Punching Force	70 Tons	120 Tons	120 Tons	185 Tons	240 Tons
Marking	-	Disc	Disc	Disc	Disc
Number of characters	-	40	40	40	40
Vertical wing punches	-	-	1	-	-
Maximum Diameter	-	-	1-1/4"	-	-
Vertical Punching Force	-	-	65 Tons	-	-
Angle Processing (Min. Size)	-	-	1- 1/2 x 1/8"	-	-
Angle Processing (Max. Size)	-	-	6 x 6 x 5/8"	-	-

Capacities based on material resistance of 65,000 PSI tensile

# Alfa Plus

CNC-controlled automated line for punching and shearing flat bar up to 1-9/16". **ALFA Plus** allows you to perform tasks heretofore reserved to more expensive and slower technology. Upgradeable by means of mountable marking and a triple-head punching units. Configure the solution that best meets your needs.

Flat bars up to 40 feet in length are positioned and secured clamped by means of an automated carriage unit employing pneumatic rollers. This line is equipped with a single-head punching unit for diameters up to 1-9/16", as well as a marking unit and a shearing station for over-sized material up to 20" in width, with a thickness up to 1-9/16".

## Peripherals Available

- TRIPLE HEAD
- MARKING UNIT
- LINE PRO Software



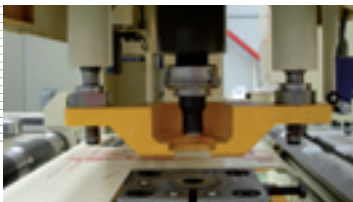
### INPUT CONVEYOR UNIT

- Rack & pinion servo drive carriage
- Flat bars are pushed and clamped by the carriage
- Pneumatic clamping guides
- Side rollers



### SHEARING UNIT

- Flat bar cuts
- Hydraulic stops and clamping guides



### PUNCHING UNIT

- Diameters up to 1-9/16"
- Hydraulic hold down
- Servo motor and spindle-driven horizontal positioning along Y-Axis



### USER-INTERFACE

- PC on Windows platform
- Network connectivity
- USB ports
- Graphic interfaces
- Remote assistance via internet

