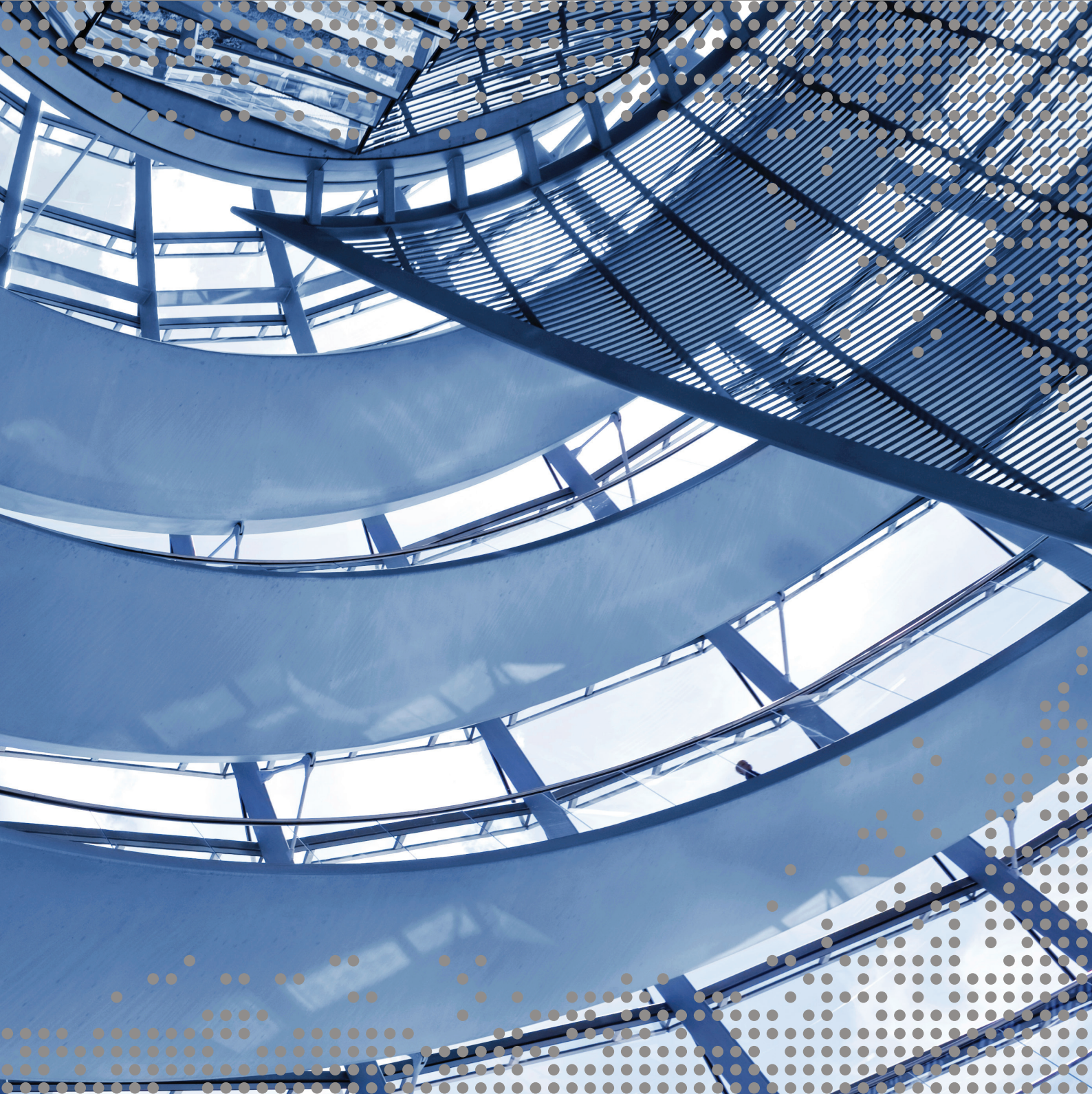


# CNC FLAT BARS



ENGLISH (mm)

**GEKA**   
The steel working company



# GEKA CNC

Against a background of growing international competition, automation and innovation in production processes are key factors in guaranteeing a company's competitive edge.

With a view to achieving more precision and productivity, GEKA has included automated mechanisms in its equipment.

GEKA combines the latest in CNC technology for the automated processing of angles and profiles, decades of experience in shearing and punching, and state-of-the-art automation. Our products are technically superior, possessing a natural advantage in the market place. GEKA is a premium quality brand.

# GEKA Worldwide

Know-how and market share characterize our GEKA success story since our humble beginnings almost a century ago. In the first ninety years, the GEKA Group has forged for itself a proven track record of excellence and performance.

- Over 80% of our production is exported
- Our global network consisting of 60 local distributors all over the world
- Worldwide sales in over 85 countries
- On-demand customer care offering superior service and maintenance

On any given day, more than 80,000 GEKA machines are pounding away on five different continents. Now that's customer satisfaction!

# FLAT BAR PROCESSING

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 150	ALFA 500	ALFA 500/150	ALFA 500/165T	ALFA 500/220T
Flat Bar Size (Min.)	25x4 mm	50x5 mm	50x5 mm	100x10 mm	100x10 mm
Flat Bar Size (Max.)	150x10 mm	500x20 mm	500x20 mm	500x30 mm	500x40 mm
Horizontal-Wing Punches	2	3	3	up to 3	up to 3
Maximum Diameter	31 mm	40 mm	40 mm	40 mm	40 mm
Punching Force	640 kN	1100 kN	1100 kN	1650 kN	2200 kN
Marking	-	Disc	Disc	Disc	Disc
Number of characters	-	40	40	40	40
Vertical wing punches	-	-	1	-	-
Maximum Diameter	-	-	31 mm	-	-
Vertical Punching Force	-	-	600 kN	-	-
Angle Processing (Min. Size)	-	-	40x40x4 mm	-	-
Angle Processing (Max. Size)	-	-	150x150x15 mm	-	-
Drilling Unit	✓	✓	✓	✓	✓

Capacities based on a material resistance of 45 Kg/mm<sup>2</sup>. Technical characteristics valid except for typographical errors or omissions. Geka group, committed to continuous product improvement, may without notice change technical specifications, equipment and photographs of models, as well as any other information contained herein.

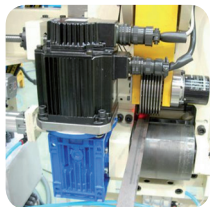
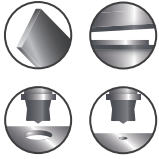


# FLAT BAR PROCESSING

## ALFA 150

Specially-designed for processing flat bar above 25 mm requiring considerable downtime and manipulation.

The ALFA 150 delivers effortlessly sheared and punched products. Performance that is versatile and functional.



### INPUT CONVEYOR UNIT

- Servo Motor-operated tracking wheel
- Dedicated encoder unit
- Positioning speed up to 38.8 m / min



### SHEARING UNIT

- Single cut shearing
- Anti torque system for cutting material without deformation
- Ideal for steel and soft metals (I.e., copper)



### PUNCHING UNIT

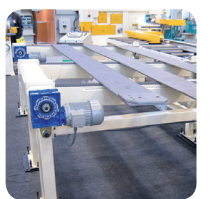
- Accommodates two different punches
- 31 mm Maximum Diameter
- CNC-controlled gauges
- Hydraulic hold down



### USER-INTERFACE

- Control along two axis
- Touch screen
- Compact Flash memory card

## PERIPHERALS FOR YOUR ALFA



### AUTOMATED FEEDER

- Handles steel profiles up to 12 m in length
- CNC-controlled



### MITER SHEAR UNIT

- Flar bar cuts (-45 ° to +45 °)



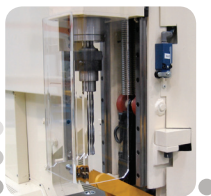
### MARKING UNIT

- Disc type
- Marking force of 80 kN
- Accommodates up to 40 characters (10x6 mm-sized typeface)
- CNC-Controlled



### TRIPLE-PUNCHING HEAD

- Accommodates 3 punches simultaneously and independently selectable
- 40 mm Maximum Diameter



### VERTICAL DRILLING UNIT

- 40 mm Maximum Diameter
- Cutting speed 20 m / min
- MK4 Tool Holder



### LINE PRO Software

- Importing of .dxf and .dstv files
- Nesting optimizes material use

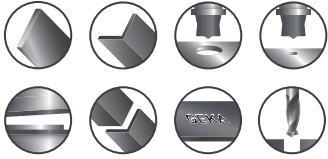


# FLAT BAR PROCESSING

## ALFA 500

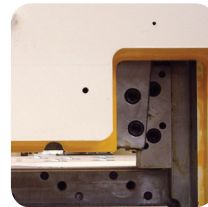
CNC-controlled, automated line for punching, marking and shearing flat bar. The ALFA 500 product line's functionality and versatility processes flat bars efficiently while reducing cost. Flat bars up to 12 m in length are positioned and secured by means of an automated carriage unit employing pneumatic rollers.

This line is equipped with a triple-head punching unit for diameters up to 40 mm, as well as a shearing station for over-sized material up to 500 mm in width, with a thickness up to 20 mm.



### 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 single cut
- Hydraulic hold down and clamping guides



### PUNCHING UNIT

- Accommodates three different, independently selectable punches
- Diameter up to 40 mm
- 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

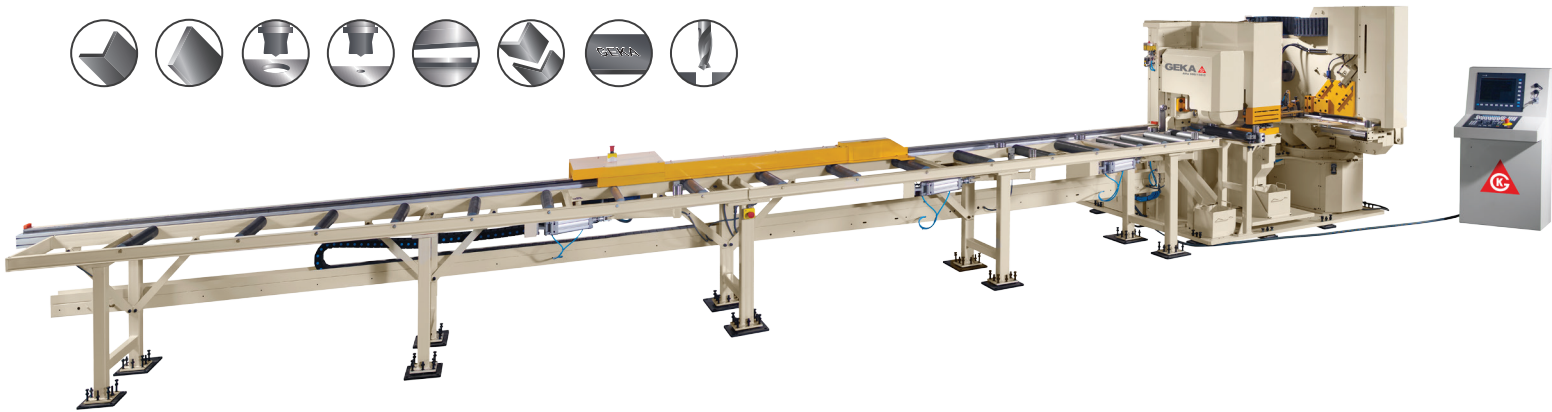
# FLAT BAR PROCESSING

## ALFA 500/150

CNC-controlled automated line for punching and shearing flat bar and angles. Upgrades include mountable marking unit and a rotary shear cutter. Increased versatility ideal for manufacturers of metal truss structures and steel fabricators.

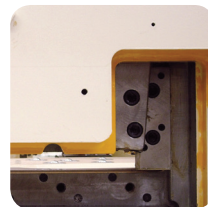
Flat bar up to 12 m in length are positioned and secured clamped by means of an automated carriage unit employing

pneumatic rollers. This line is equipped with a single-head punching unit for diameters up to 31 mm for vertical-wing punching of angles, as well as a triple-head punching unit for diameters up to 40 mm for flat bar and horizontal-wing punching of angles. A shearing station for over-sized material up to 500 mm in width, with a thickness up to 20 mm is also included. A multi-task three-in-one station.



### INPUT CONVEYOR UNIT

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



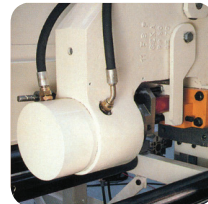
### SHEARING UNIT

- Flat bar cuts
- Steel angle cuts
- Hydraulic clamping guides
- The only one-station system for flat bar and angle shearing



### HORIZONTAL-WING PUNCHING UNIT

- Accommodates three different, independently-selectable punches
- Diameter up to 40 mm
- Hydraulic hold down
- Servo motor and spindle-driven horizontal positioning along Y-Axis



### VERTICAL-WING PUNCHING UNIT

- Single punch unit
- Diameters up to 31 mm
- Hydraulic hold down
- Hydraulic servo valve control and spindle-driven vertical positioning



### USER-INTERFACE

- PC on Windows platform
- Network Connectivity
- USB ports
- Graphic interfaces
- Remote Assistance via internet



# FLAT BAR PROCESSING

## ALFA PLUS

CNC-controlled automated line for punching and shearing flat bar up to 40 mm thickness. 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 unit. Configure the solution that best meets your needs.

Flat bars up to 12 m 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 40 mm, as well as a marking unit and a shearing station for over-sized material up to 500 mm in width, with a thickness up to 40 mm.



### 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 40 mm
- 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

# GEKA GROUP

## Quality Know-how Service



### World leader in punching and shearing solutions

With more than 80000 happy and satisfied customers worldwide and more than 90 years experience.



### Proven quality, design and craftsmanship

ISO 9001 and OHSAS certifications besides 90 years experience and a continuous benchmarking policy.



### Complete after sales service

Permanent stock and next day delivery of consumables, accessories and parts. After sales assistance by GEKA's qualified engineers.



### Great versatility

More than 50 different machine models and over 8000 different accessories. GEKA offers the highest range in accessories and optional equipment in the market.



### Produced & manufactured in the European Union

Conversely other manufacturers, GEKA is the only ironworker fully produced by Geka in the UE.



### Continuous innovation

New Bendicrop 85, C2PL, Alfa 500, Alfa 150, Gamma Traction, Sigma110...



### Worldwide distribution network

With more than 60 distributors and present in more than 85 countries in 5 continents.



### All GEKA machines are special order

Every new GEKA machine is one of a kind. Our designers develop solutions suited to your specific needs. We manufacture each GEKA in our own facilities according to precisely defined standards.

**GEKA**   
The steel working company

[www.geka-group.com](http://www.geka-group.com)