

# CNC SOLUTIONS



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!

# CNC SOLUTIONS

The GEKA Group began manufacturing ironworkers in 1919. GEKA ironworkers process angles, flat bar and steel profiles used in the construction of prefab metal structures; towers for high-voltage power lines and power stations; telecommunications towers; and other diverse industrial metalworking applications.

All GEKA machines are special order. GEKA is the only ironworker on the market that you can customize to fit your needs.

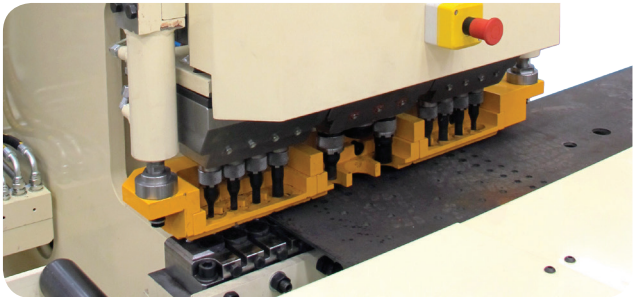
# FEEDERS

Eliminating cumbersome manipulation of material, saves you time and substantially increases your productivity while maximizing accuracy.



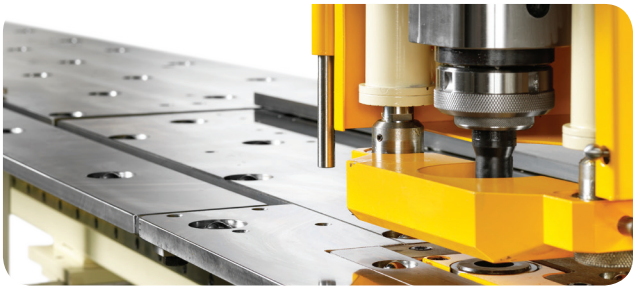
# SPECIAL SOLUTIONS

Our full range of CNC products is backed by GEKA's qualified team of professionals. We cater to your special ironworking requirements.



# POSITIONING DEVICES

Our product line brings the newest CNC automation and positioning technology to punching of steel. This unit is equipped with programmable stops along the X- and Y-Axis.



STEEL PLATE		CHANNELS		DOUBLE WING CUT (one of which is at 45°)		SHEARING		SPOTTING		TAPPING	
FLAT BAR		H CHANNEL		90° CUT		BENDING		MARKING		MILLING	
ANGLES		45° CUT		STEEL BAR CUTTING		PUNCHING		DRILLING		BORING	

## PAX

Our PAX product line guarantees the automated positioning of material along the X-Axis permitting sequential multiple punching of profiles.

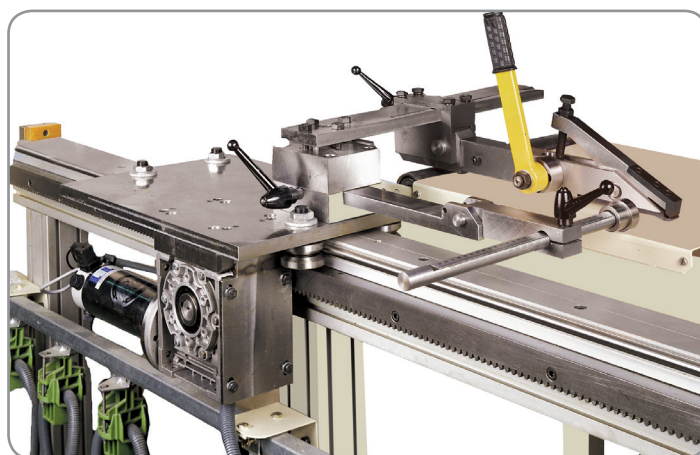
### BASIC FEATURES:

- Conveyor unit and positioning clamping guides
- Clamping of material
- Servo motor positioning
- Linear roller table top
- Manually-adjustable set of transverse roller guides
- Touch screen monitor

### FEATURES

Available strokes	Meter by meter*
Max. feed speed	24 m/min
Position Tolerance	$\pm 0,25$ mm/m
Max. feed weight	250 kg
Repeatability	$\pm 0,15$ mm

\* from 3 meters



Feeder slide PAX unit





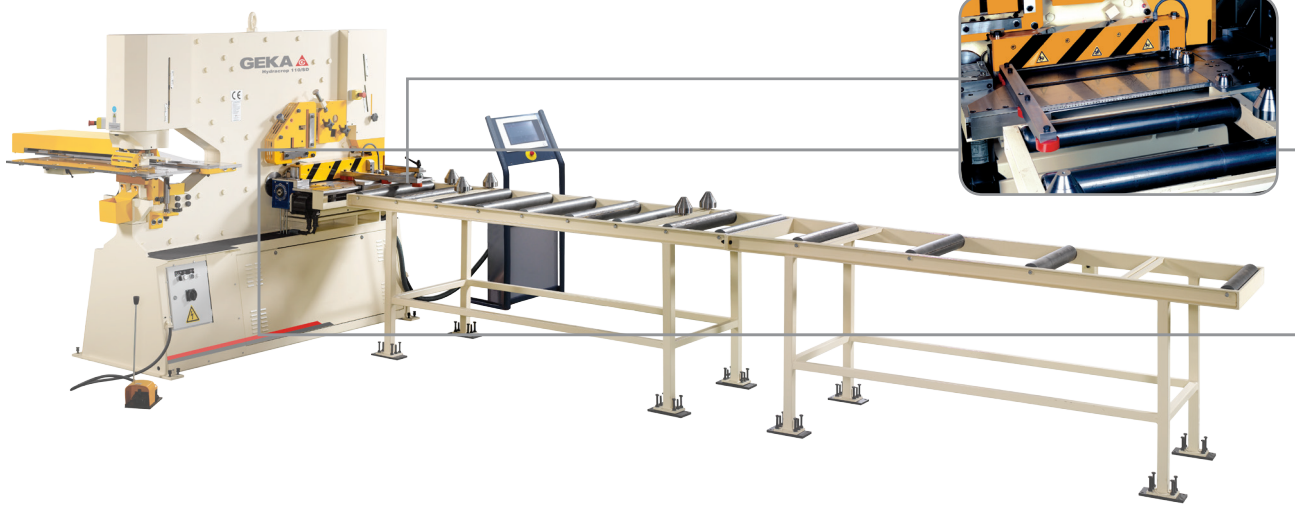
# FEEDERS

## ALRS

The ALRS product line is an automated feeder of flat bar, available as part of an option package for our HYDRACROP shearing stations. Eliminating cumbersome manipulation of material, our ALRS saves you time and substantially increases your productivity while maximizing accuracy.

Our user-interface supports simultaneous processing of multiple lengths and their respective configurations, making programming of various jobs quick and easy.

FEATURES	ALRS 600	ALRS 750
Max. flat bar width (mm)	600	750
Max. flat bar length (mm)	7000	7000
Displacement speed	18 m/min	18 m/min
Positioning accuracy	+/- 0,2 mm/m	+/- 0,2 mm/m



## SPECIAL SOLUTIONS

Our full range of CNC products is backed by GEKA's qualified team of professionals.

WE CATER TO YOUR SPECIAL IRONWORKING REQUIREMENTS.

Over ninety-years experience delivering turnkey outcomes. User-based know-how obtained from our customers over decades.

GEKA is a guarantee. Generations of solutions working for your next generation of needs.



# POSITIONING DEVICES

## SEMI-PAXY

Our Semipaxy product line brings the newest CNC automation and positioning technology to punching of steel. This unit is equipped with programmable stops along the X- and Y-Axis. Mounted onto existing or new GEKA models with a minimum throat size of 500 mm, our Semipaxy is available as part of an option package for our HYDRACROP SD or PUMA family of products.

### VERSIONS:

- X 1000  
Accommodates material with a maximum length of 1.000 mm
- X Plus  
Accommodates extension devices for longer material:  
2000, 3000, 4000, 5000 and 6000 mm

Maximum Widths according to Model:

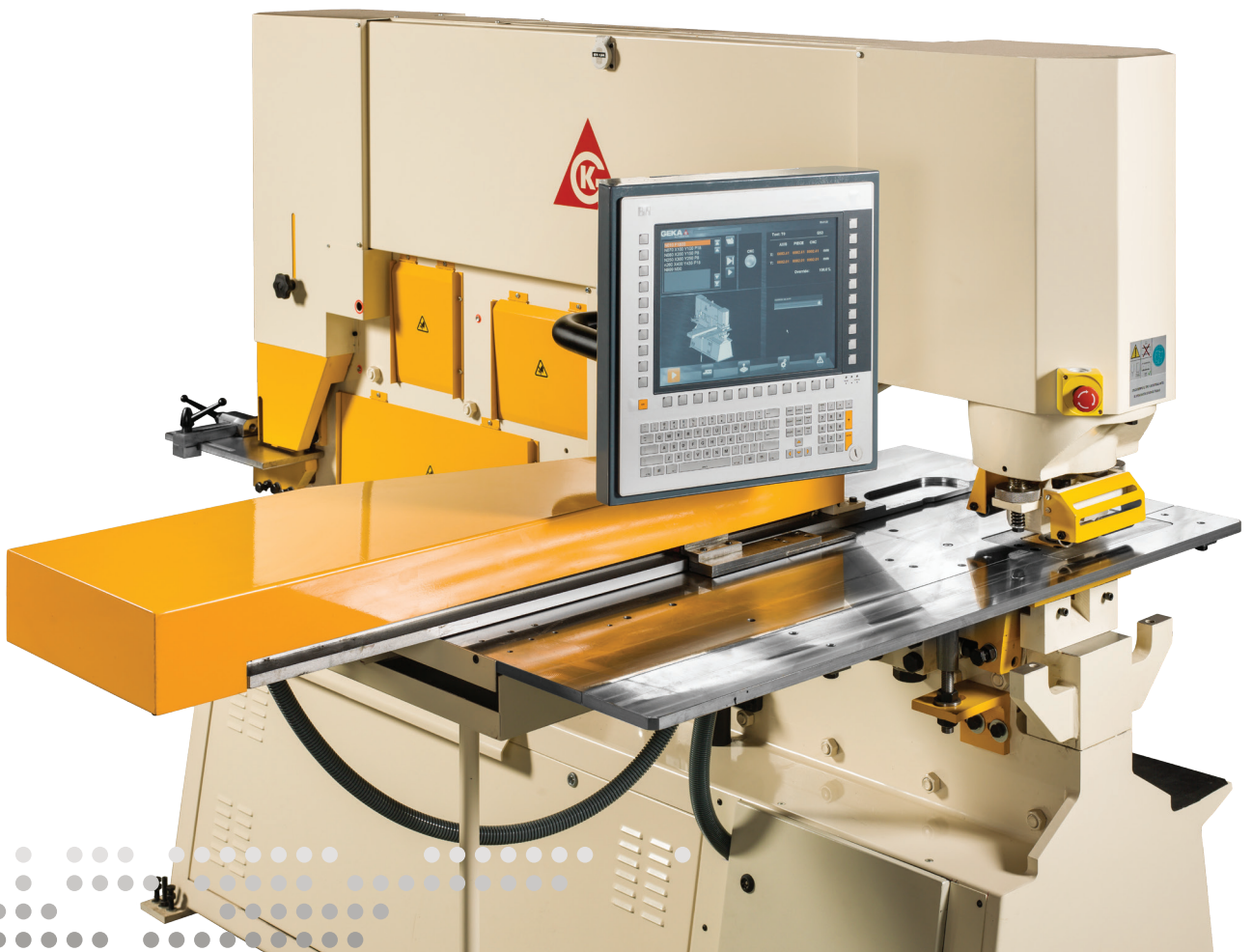
- HYDRACROP or PUMA (500 mm throat) = 400 mm
- HYDRACROP Models 110SD and 165 SD = 500 mm
- PUMA (750 mm throat) = 650 mm

### BASIC FEATURES:

- Support chassis
- Two servo motor-driven positioning carriages
- Touch screen
- Conveyor assembly consisting of independent servo drives along each axis, spindle and encoder units

### STANDARD OPERATION:

- 1) Program the coordinates of each perforation (absolute or by increments)
- 2) Run application (sets automated stops for the first perforation)
- 3) Place material securely against the stops and depress the punching pedal
- 4) Once the perforation is complete, the automated stops reposition themselves for the next programmed perforation
- 5) Repeat the sequence until the end of the program



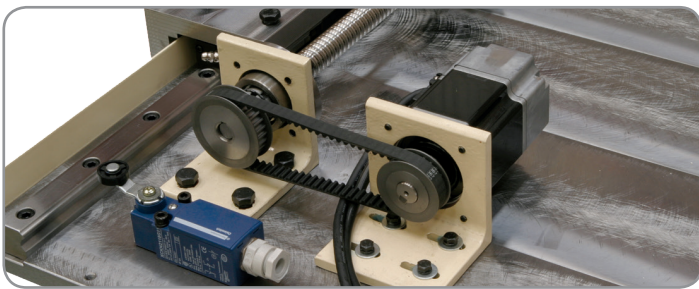


# POSITIONING DEVICES

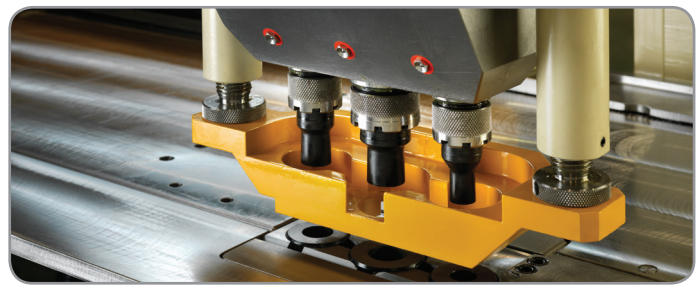
## Features

### FEATURES

Rate of Motion (X-Axis)	0-12 m/min
Rate of Motion (Y-Axis)	0-12 m/min
Position Tolerance	+/- 0,20 mm/min
Repeatability	+/- 0,1 mm

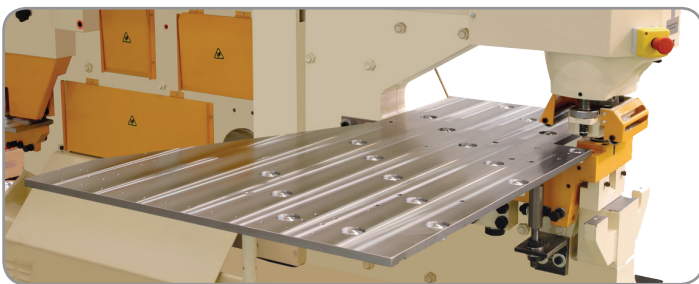


Basic Semipaxy Version detailing servo drive-spindle-encoder assembly.



### TRIPLE-PUNCHING HEAD

- Three on-demand, programmable punches
- Diameters up to 40 mm
- Punching is accomplished by means of forcible strokes or blows
- Excellent for operations requiring identical perforations with varying diameters



### MOTION-ENHANCING FEATURES

- Integrated ball transfers along table top permit convenient positioning of material
- Spring-loaded trackballs equipment



### PC-CONTROL

- Standard, color touch screen monitor and keyboard
- User-friendly graphic interfaces and programming
- Importing of .dxf and .dstv format files



# 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.

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