



CNC STEEL PROCESSING MACHINES











GAMMA ROLLER SERIES CNC PROCESSING OF ANGLES, FLAT BARS AND C-CHANNELS



The **GR series** are machines designed for maximum output and processing quality in the minimum space possible. The material is moved by means of a roller to optimize efficiency in a reduced space. Though the material is moved by a **roller infeed**, the customer can use GEKA's patented **Minimal Waste System** to ensure a minimum waste per bar, **reducing the scrap to virtually zero**.









INPUT CONVEYOR UNIT

Servo motor-driven tracking roller. Independent encoder.

Feeder tracks at each end of the line.



PUNCHING UNIT

Up to 3x punches per leg 31mm diameter. CNC-controlled backgauge. Hydraulic hold-down.



SHEARING UNIT

Clean cuts without waste. Fast and easy access to blades.



FULL CNC CONTROL

Windows 10 based PC control. 15" Touch screen.

Remote assistance as standard.



MINIMAL WASTE UNIT

Allows processing full length of bars with no scrap.

Automatically activated from CNC. Clamp holds material & pulls it out. Fast and easy access to blades.



C- CHANNEL PROCESSING UNIT

This kit enables the machine to mark, punch (on the web) and shear the following U channels profiles:

U DIN 1026 - 80x45, 100x50, 120x55.



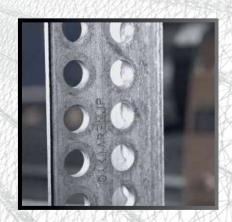
	GR-80	GR-150	GR-160	GR-180
Min angle processing [mm]	30 x 30 x 3	40 x 40 x 4	40 x 40 x 4	40 x 40 x 4
Max angle processing [mm]	80 x 80 x 8	150 x 150 x 15	160 x 160 x 16	180 x 180 x 18
Max flat bar processing [mm]	-	150 x 15	160 x 16	180 x 18
C-channel processing* [mm]	<u>u</u>		120	
Material infeed		Roller		
Number of punches per leg	1	2	3	3
Max punching Ø [mm]	25	31		
Punching power [tons]	34	55	75	75
Shearing power [tons]	65	150	250	250
Cassette marking*	<u>2</u>	5 holders, 10 characters each		
Wheel marking*	-	40 characters		

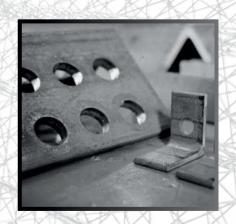
Operating software in Windows 10

Std. LinePro Net / Optional LANTEK

All the capacities described in this offer are based on a strength construction steel 45 Kg/mm 2 *Options







GAMMA TRACTION SERIES CNC PROCESSING OF ANGLES, FLAT BARS AND C-CHANNELS



The **GT series** are machines designed for maximum output and processing quality when processing **angle bar**, **flat bar and C-Channel**. The material is processed by the means of a **pincher + carriage** to optimize efficiency by processing the material with **minimum scrap** to ensure the best results.







PUNCHING UNIT

6x punches (3x per leg). CNC-controlled backmark. Hydraulic hold down.



INPUT CONVEYOR UNIT

Material held and pushed with clamp. Rack & pinion system servo motor driven.



DOUBLE DRILLING UNIT

8 tools (4 per leg). Maximum diameter 40mm.



SHEARING UNIT

Clean cuts without waste.
Easy and quick access to blades.



FULL CNC CONTROL

Windows 10 based PC control. Standard remote assistance.



MARKING UNIT

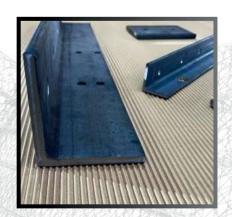
CNC controlled positioning and marking selection withh adjustable pressure valid for galvanizing.



	GT-100	GT-160	GT-200	GT-250
Min Angle processing [mm]	35 x 35 x 4	40 x 40 x 4	50 x 50 x 5	50 x 50 x 5
Max angle processing [mm]	100 x 100 x 10	160 x 160 x 16	200 x 200 x 20	250 x 250 x 25
Max flats processing [mm]	100 x 10	160 x 16	200 x 20	250 x 25
C-channel processing* [mm]		120	140	180
Material infeed	Via pincher			
Number of punches per leg	1	2	3	3
Max Punching Ø [mm]	31	31	31	31
Punching power [tons]	65	75	75	75
Shearing power [tons]	100	250	300	540
Pressure marking*	5 holders, 10 characters each			
Wheel marking*	40 characters			
Orilling station*	- 1 per leg w/4 tools			
Operating software in Windows 10	Std. LinePro Net / Optional LANTEK			

All the capacities described in this offer are based on a strength construction steel 45 Kg/mm 2 *Options







ALFA SERIES CNC PROCESSING OF FLAT BARS AND ANGLES



The ALFA series is a CNC punching and shearing machine, has been designed to meet the needs of steel manufacturers seeking to optimize their production. This series has the capability to process both flat and angle bars, spanning lengths from 6 to 12 meters. With versatile options such as marking, drilling, mitre shearing, and automatic loading/unloading, the ALFA series optimizes production, offering steel manufacturers a comprehensive solution to enhance their efficiency and performance.











INPUT CONVEYOR UNIT

Rack & Pinion with Servo Driven carriage + pincher. Flat Bars are pushed and clamped by the carriage. Material guided by side rollers.



PUNCHING UNIT

3x different, independently selectable punches.
Up to 40mm diameter.
Hydraulic hold-down.

Servo motor and spindle-driven horizontal positioning along Y-Axis.



SHEARING UNIT

Flat Bar single cut.

Hydraulic hold-down and clamping squaring guides.





MARKING UNIT
Wheel marking unit.
Selected from the CNC.
Dimensions: 14x10x19mm (LxWxH)
Marking power 80kN.



DRILLING UNIT9kW Drilling unit up to 40mm diameter.

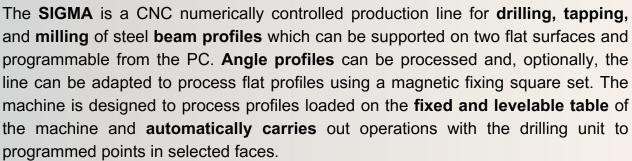


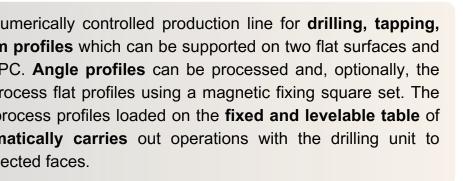
MITRE SHEARING FOR FLATS Maximum turning capacity +/- 45°.

	ALFA 150	ALFA 500/150-110	ALFA 500/150-165	ALFA 500/150-220
Min flat processing [mm]	25 x 4	50 x 5	50 x 5	50 x 5
Max flat processing [mm]	150 x 12	500 x 20	500 x 25	500 x 30
Min angle processing [mm]	•	50 x 50 x 5	50 x 50 x 5	50 x 50 x 5
Max angle processing [mm]	S S	150 x 150 x 15	150 x 150 x 15	150 x 150 x 15
Material infeed	Roller	Via pincher		
Maximum Ø [mm]	31	40	40	40
Number of punches	2	3	3	3
Center punching power [tons]	64	110	165	220
sides punching power [tons]		82	123	165
Vertical leg punching power* [tons]	•	50	50	50
Wheel marking*	3	40 characters		
Cross transfer system for automatic loading*		As per customer request		
Cross transfer system for automatic unloading*	25 88888	As per customer request		
Orilling unit* [kW]	-	9	9	9
Mitre shearing*		± 45°	± 45°	± 45°
Operating software in Windows 10	Std. LinePro Net / Optional LANTEK			

SIGMA SERIES **PROCESSING OF BEAMS, FLAT BARS, PROFILES AND TUBES**



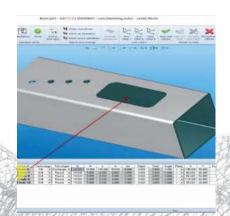






AUTOMATIC TOOL CHANGER

Number of tools: 5. Pneumatic drive. Built on a double linear guide.



ADVANCED SOFTWARE

Full CNC with multiple nesting options. Accepts TEKLA, DSTV, DSTV+, Remote connection for troubleshooting.



PROFILE ROTATING SYSTEM

Automatic turning system for profiles up to 600mm.

5 rotators placed along the worktable to enable the profile turning.



	SIGMA 600	SIGMA 1000	
Section volume [min - max]	70 - 600	70 - 1000	
Std bar length [m]	12		
Max processable length [m]	14		
Drill heads	1		
Spindles per vertical drill head	1		
Drilling Ø [mm]	40		
Drilling unit [kW]	13		
Program controlled spindle rotation speed [rpm]	300 - 3000		
Automatic tool changer capacity	5		
Tool holder	ISO DIN 69871 (SK40/ISO40)		
Complementary stroke to the X axis for the vertical head (U-Axis)	± 250		
X axis positioning speed (portal) [mm/s]	100		
Y axis positioning speed (drill head) [mm/s]	162		
Laser sensor for quick profile detection & machine positioning	Included as std		
Internal lubrication	Included as std		
External lubrication	Included as std		
Light security	Included as std		
Operating system	Windows 1		
Ethernet connection and remote service for troubleshooting	Included as std		
Rotating system for beams*	Up to	Up to 600mm	
Cross transfer system for automatic beam positioning*	As per customer request		
Marking unit*	Scr	ibing	







PUMA 2HI + PAX PROCESSING OF BEAMS FOR SOLAR TRACKERS







The **PUMA 2HI + PAX** is specifically designed for **punching I-beams** and H-beams for solar trackers. Fabricators will be able to process up to **14-meter beams** in a very fast process with high accuracy, and short fabrication times per beam.



DOUBLE PUNCHING SYSTEM

Double punching in one stroke on the flanges of the profile in the form of a "T", double "T" or "H" at the same time.



AUTOMATIC POSITIONING

Automatic material unlocking and carriage retraction to process the next beam.



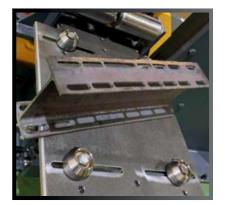
DIE BASE WITH DOUBLE OR QUADRUPLE PUNCHING

Aligned and referenced in profile by the beam web.



	PUMA 2HI + PAX
Min flange length [mm]	50
Max flange length [mm]	400
Punches per head	2
Punching power [tons]	165
Max punching Ø	As per customer request
Max punching thickness [mm]	19
Operating software in Windows 10	Std. LinePro Net / Optional LANTEK
Max feding speed [m/min]	24
Repeability [mm/m]	± 0,2







STANDARD EQUIPMENT

Puma 2HI special design
Special tooling for beams punching
Double punching per cycle stroke
Web/flange alignment system
Emergency stop buttons
Servo motorized positioning gripper
CNC/PC Touch Screen Monitor
Manually adjustable stroke of the punching cylinder
Basic punches & dies package

OPTIONAL EQUIPMENT

Manually height adjustable infeed/outfeed conveyors A/C for the electrical control Safety light barriers
Hydraulic group oil cooler
Extended punch & dies package

PAXY SERIES PROCESSING OF PLATES











The **PAXY series** machines are designed for processing **plates**, for **punching**, **marking**, **and drilling** plates. These machines have up to **3 punches** and can process a **maximum thickness** and **diameter of 40 mm**. Custom sizes are available on request.



Double Gripper Unit

Material clamping guides. Set of independent servo drives in each axis. Fast and easy loading and unloading of material.



Punching Unit

3 different punches independently selectable. Horizontal movement driven by servomotor and ball screw.



Drilling Unit

Hydraulic support.

Maximum diameter 40mm.

Detection of material thickness and tool length by automatic contact.



	PAXY 1000x500	PAXY 2000x750	
Max length of sheet X Axis [mm]	1000	2000	
Max length of sheet Y Axis [mm]	500	700	
Punching force [kN]	80, 110, 165 or 220		
Max traverse speed per axis [m/min]	24		
Max combined traverse speed [m/min]	34		
Positioning tolerance [mm]	0,1		
Number of punches	3		
Max central punch Ø [mm]	40		
Max lateral punches Ø [mm]	31		
Max through thickness central punch Ø [mm]	40 x 40		
Drilling unit* [kW]	11		
Tool holder*	ISO 40		
Spindle speed range* [rpm]	120 to 1500		
Max [mm]	40		
Max plate thickness [mm]	40		
Marking unit*	10 cha	racters	







All the capacities described in this offer are based on a strength construction steel 45 Kg/mm 2 *Options
Custom sizes on request

SAMPLE PARTS PRODUCED BY OUR MACHINES





