G-STAR SE SERIES

HIGH SPEED RE-BAR BENDERS

EUROBEND





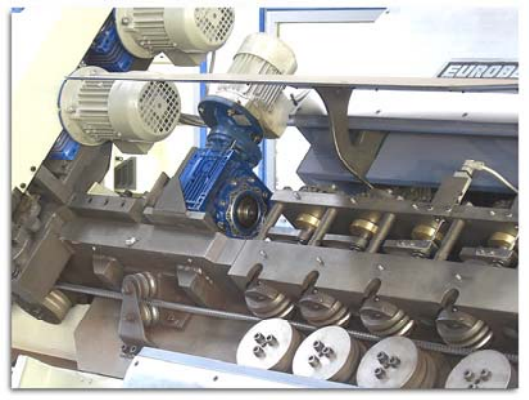


A complete range of servo-motor driven high-speed re-bar benders for heavy duty continuous operation within the reinforcing industry.

STRAIGHTENING AND FEEDING UNIT

- ✓ Two robust roller subassemblies, powered by a servomotor ensure accurate feeding and excellent straightening.
- ✓ All lower rollers of the straightening and feeding unit are powered, thus creating a positive, precise feed force.
- ✓ Re-bar marking is reduced to a minimum and roller life is maximized due to even power distribution and offset roller design.
- ✓ The heavy duty construction of the straightening and feeding unit absorbs all vibrations caused by the re-bar ribs.

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ANTI-TWIST SYSTEM

- ✓ Adjustable counter-torsion (anti-twist) electric system always produces flat shapes regardless of re-bar quality, axial twist and bending direction (Patented).
- ✓ The entire upper straightening rollers housings are cylindrical and their angle can be adjusted in respect to the re-bar axes, through a geared motor, eliminating all twisting stresses of the straightened re-bars.





STRAIGHTENING ROLLER ADJUSTMENT
Two types of straightening roller adjusting systems are available.

Hexagon Shaft Pre-setting System

- ✓ Diameter changes can be completed in less than 2 minutes, thanks to the “Hexagon Shaft Pre-setting System”
- ✓ Six different settings can be adjusted.



Automatic roller adjusting system “ASA”

- ✓ Automatic adjustment system of the straightening and feeding rollers via electric motors.
- ✓ All entered values for the different re-bar diameters are stored in memory.
- ✓ Fine tuning of the straightening rollers can be done while machine is in operation.



The last upper roller on each subassembly is adjustable separately for each bar, thus compensating for the different re-bar quality of two coils used.







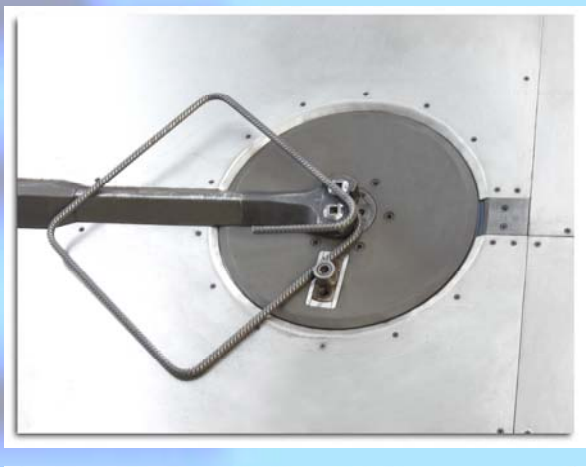
AUTOMATIC RE-BAR DIAMETER CHANGING UNIT “AWC”

- ✓ The automatic re-bar change over mechanism feeds the new requested re-bar diameter into the straightening device of the bending machine.
- ✓ Up to six different re-bar diameters can be stored.

AUTOMATIC TORSION ELIMINATOR “ATE”

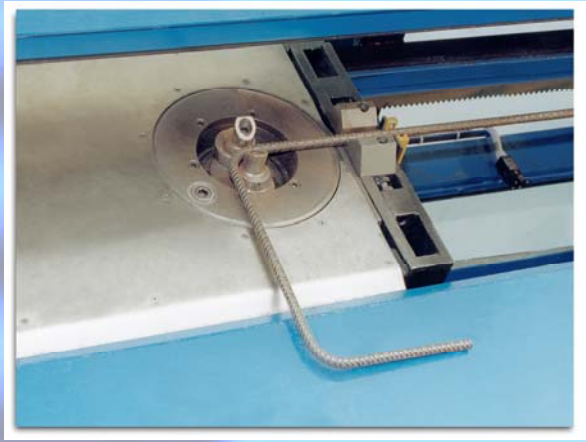
- ✓ The system incorporates a moving pneumatic gripper system, which can be selectively activated through the computer program.
- ✓ The gripper secures the re-bar during feeding and bending action eliminating all torsions of the straightened re-bars. (Patented).

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BENDING AND CUTTING UNIT

- ✓ The rotating plate assembly principle with a pneumatically activated bending pin for right and left bends combines high output with long life of parts and consistent product quality.
- ✓ The sophisticated bending system with the retractable bending pin on the rotating plate enables re-bar feeding during bender back motion increasing the production capacity.
- ✓ Complete range of bending tools can be provided with the machine for a wide range of bending radii.
- ✓ A hydraulic shear cutter, incorporated in the rotating plate assembly, is located just after the bending tool, thus enabling cutting immediately after a bend.
- ✓ Up to 50% higher production output, compared to conventional stirrup bending machines, due to retractable bending pin and cutting without reversing.



SECONDARY BENDING STATION “G-STAR SYNTHETON”

- ✓ Second bending unit and collector for the production of long double bend shapes.
- ✓ The second bending unit is concealed behind the front working of the re-bar measuring channel of the collector.
- ✓ The bending unit appears automatically only when secondary bends are required.



BRIDGE-TYPE BAR COLLECTOR

- ✓ Bridge-type collector to accommodate the straight bars produced by the straightening and bending machine.
- ✓ The powered chain conveyor is equipped with up to ten collecting pockets.
- ✓ The system is ideal for sorting orders, diameters or lengths, tying bundles and easier storage.



BENDING TABLE INCLINATION MECHANISM

This is a hydraulically operated double frame, activated by the operator through the control unit.
The machine’s worktop surface tilts, providing better support and more space when producing large size stirrups

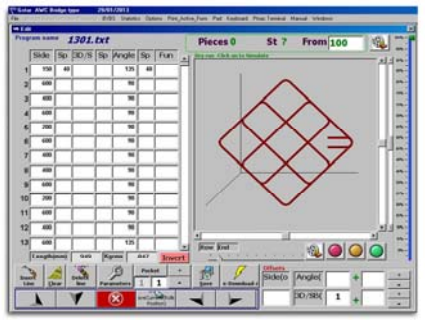
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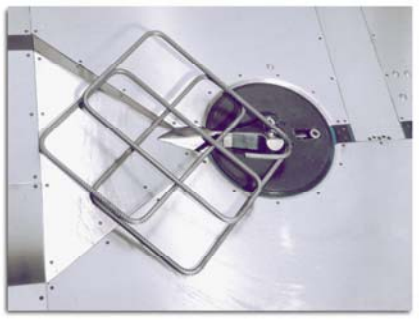


- ✓ All important functions are integrated in a portable cordless hand control unit for maximum flexibility of the operator.
- ✓ Ergonomic operator interface with user friendly software.
- ✓ Remote trouble-shooting via Internet.

G-STAR Re-bar Benders are available with:

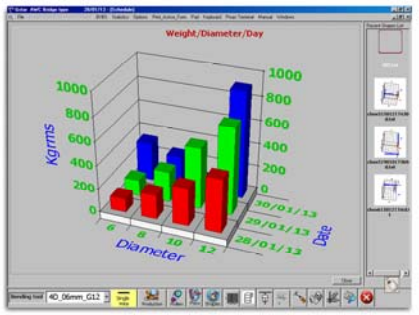
- ✓ Product identification stamping
- ✓ Helical/Ring forming attachment
- ✓ Straight rod collection station
- ✓ Bending table Inclination mechanism.
- ✓ Automatic stirrup collector.











TECHNICAL SPECIFICATIONS	G-STAR 12 SE	G-STAR 14 SE	G-STAR 16 SE	G-STAR 20 SE
Single strand	∅ 5-12 mm (#4)	∅ 6-14 mm (#4)	∅ 6-16 mm (#5)	∅ 8-20 mm (#6)
Double strand	∅ 5-8 mm	∅ 6-10 mm (#3)	∅ 6-12 mm (#4)	∅ 8-16 mm (#5)
Single strand feeding speed	140 m/min (460 ft/min)	120 m/min (390 ft/min)	110 m/min (360 ft/min)	100 m/min (330 ft/min)
Double strand feeding speed	280 m/min (920 f/min)	240 m/min (780 f/min)	220 m/min (720 f/min)	200 m/min (660 f/min)
Bending speed	1200 °/sec	1000 °/sec	1000 °/sec	800 °/sec
Bending angle	± 180°	± 180°	± 180°	± 180°
Bending accuracy	± 0.5°	± 0.5°	± 0.5°	± 0.5°
Installed power (kW)	16	18	20	26
Power consumption (kWh)	5	6	7	8
Main machine weight	3000 kg	3300 kg	3800 kg	4000 kg

For your nearest EUROBEND representative, please, contact:

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