

# PIONEERS IN INNOVATION

Eurobend is a leading European manufacturing company

Our strong R&D department, resources and flexibility aim at developing innovative products, opening new frontiers for all manufacturers, continuing our tradition in enhancing technology in response to the increasingly sophisticated demands of industry

Re-bar and wire processing equipment for all applications



The Antikythera mechanism

A calendar computer for solar and lunar rotation dated from 80 B.C., discovered in the Aegean waters in 1900





#### ■ PLC SERIES

High speed reinforcing mesh welding lines working either from precut bars or coils



- Equipped with independent heavy duty hydraulic welding heads processing up to 16mm wire diameter at 50mm spacing
- Different models available offering maximum flexibility without changeover adjustments due to unique design
- Line and cross wires fed either from precut bars or coil
- Wire diameters up to 10mm, 12mm and 16mm

#### ■ PLR kk SERIES

High-precision Industrial mesh welding lines for the production of mesh sheets and rolls



- Line and cross wires fed from coil
- Independent and individually adjustable welding heads covering different product widths and line wire spacing
- Repositioning of the welding head in seconds
- High speed mesh carrier
- Wire diameters up to 6mm and 8mm

# ■ PLR MODULAR SERIES

Modular mesh welding lines producing Industrial and Reinforcing mesh working either from precut bars or coils



- Sheets of up to 6 meters wide thanks to independent welding head design.
- Line and cross wires can be fed either from coil through roller or hyperbolic rotor straightening or from pre-cut bars.
- Repositioning of the welding heads is a matter of seconds due to our unique quick release mechanisms.
- Diameter ranges 2-6mm, 3-8mm, 4-10mm, 4-12mm, 5-16mm, 8-20mm and 8-25mm.

#### **■ PL II SERIES**

High output Reinforcing mesh welding lines with double cross wire feeding



- Speeds up to 200 strokes cross wires / min
- Double cross wire welding heads
- Automatic wire feeding from coil, for both line and cross wires
- High speed in-line mesh cutter
- Diameter ranges: 3-8mm and 4-10mm

#### ■ PLR COMPACT SERIES

Automatic welding line for the production of mesh used in concrete blocks, precast elements and other prefabricated concrete reinforcing products



- Independent and individually adjustable welding heads covering different product widths and line wire spacing.
- Line wires fed directly from coils through a compact straightening and multi-roller feeding unit
- Cross wires either fed directly from coil or from precut bars.
- Diameter ranges up to 10mm and 12mm

# ■ PLR M ROLL SERIES

High output automatic welding line for the production of rolled mats



- Ultimate flexibility and unlimited processing capabilities from 4mm up to 16mm or 20mm from coil and up to 40mm from straight bars
- Repositioning of the welding heads in seconds due to our unique "twist-lock" quick release mechanisms
- High quality rolling process achieved via the "auto-height" adjustable roll-forming system

# ■ PLR BASIC SERIES

Efficient production of customized and small to medium mesh sizes from precut bars



- Heavy duty continuous operation
- Ultimate flexibility and unlimited processing capabilities
- For mesh used in concrete blocks, precast elements and other prefabricated concrete reinforcing products, (cages, channels, etc)
- Independent and individually adjustable welding heads covering different product widths and line wire spacing
- Diameter range up to 12mm, optionally up to 32mm

#### ■ PL X-Y W & M SERIES

Flexible welding machine for the production of customized mesh sheets



- Programmable servo-motor welding head positioning system
- Line and Cross wires are fed into the machine from pre-cut bars or through a hyperbolic rotor straightening and cutting machine.
- Different line and cross wire diameters can be processed in the same mesh
- Available with Resistance or MIG welding heads (patented)
- Diameter ranges: 4-12, 4-16, 6-20, 8-25 and 10-40mm

# ■ PLT LADDER SERIES

Automatic welding line for the production of ladder-type wall reinforcements



- Accurately and efficiently produced, due to the servo driven operation, allowing automatically different cross wire distances within the same mesh
- The machine can be supplied with "T" type or overlap welding heads
- Covering production of parts with widths from 50 to 350mm
- Diameter ranges up to 7, 10 and 12mm

#### ■ PLT TRUSS SERIES

Automatic welding line for the production of truss-type wall reinforcements



- Can be supplied with "T" or overlap welding heads
- Servo-motor driven bending device ensuring fast and accurate size changeovers and excellent repeatability
- Covering production of parts with widths from 50 to 350mm
- Diameter range up to 7mm

#### ■ PLT B SPACER SERIES

High output automatic welding line for the production of reinforcement spacers (All types of continuous high chairs, bolsters, bar supports etc)



- Covering production of parts with heights from 20 to 250mm
- Extremely fast working cycle due to multiple (up to 6) cross wires feeding versions
- Fully automatic, synchronized stacking and batch removal process.
- Diameter range up to 7mm

#### ■ PL-TRIS SERIES

Fully automatic lattice girder welding line



- Single, double and quad step versions available offering reliable and cost effective production
- Flexible welding heads with electrically driven height adjustment
- Fully automatic, synchronized stacking and batch removal process.
- Diameter ranges up to 8, 10, 12, 14 and 16mm

#### ■ DOWEL SIDE-FRAME WELDER

Automatic welding line for the production of dowel side-frames (patented)



- Single and double side-frame production machine versions are available.
- Line and cross wires fed from coil
- Unique bending head mechanism, with two bending pins positioning the wire ends accurately into the welding heads, offering excellent accuracy and repeatability.
- Double bending tool for the production of frames with different side-frame legs' sizes.
- Diameter range up to 10mm

#### ■ PL SF SERIES

Flexible ladder-type welding lines for special precast elements (patented)



- Line and cross wires fed from coil
- Incorporated bending units for the cross and line wires
- Different types of bending units available covering various product possibilities
- Diameter range up to 10mm

#### ■ DOWEL BASKET ASSEMBLY LINE

Automatic welding line for the assembly of dowel baskets (patented)



- Combining minimum labor and maximum production efficiency
- Automatic insertion and welding of dowel bars by two robotic MIG welding stations.
- Shipping wire (coil fed) straightened, cut and welded at the required pitch automatically
- Fully automatic, synchronized stacking and batch removal process.

#### ■ PL FLEX SERIES

Flexible welding system for wire, tube & metal sheet components



- Multi-level welding table allowing loading and unloading while the machine in operation.
- Unique programmable Z<sub>1</sub>, Z<sub>2</sub> axis and rotating A<sub>1</sub>, A<sub>2</sub> axis provide accurate production of complex shapes in 2-D and 3-D form

# **■** EASYWELD A4 SERIES

Automatic cage assembly with stirrup pre-loading feeder



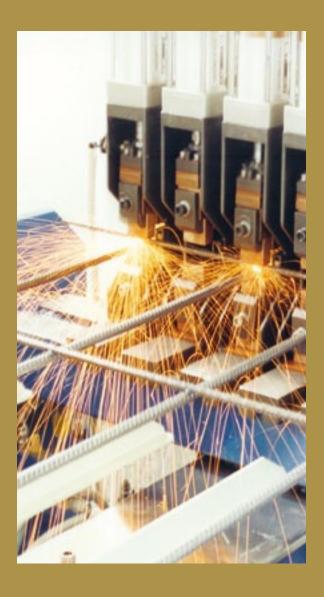
- Stirrups preloaded into the machine's magazine feeder and fed automatically by a positioning mechanism (patented)
- Variable stirrup spacing within the same cage
- MIG welding operation
- Maximum operator protection & safety due to automatic feeding of stirrups to the welding stations
- Cage support bars welded inside the stirrups
- Stirrups re-bar diameter up to Ø12mm
- Stirrups side dimensions up to 2m

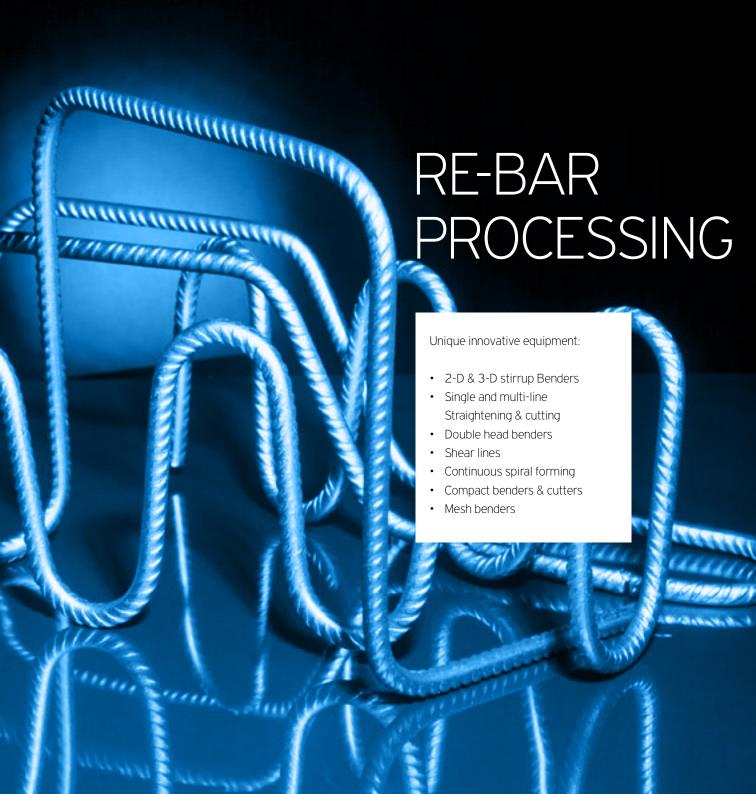
# ■ EASYWELD EX SERIES

Cage assembly



- Automatic positioning of the stirrups at the required spacing
- Variable stirrup spacing within the same cage
- MIG welding operation
- Stirrups loaded one-by-one during machine operation
- Cage support bars welded externally
- Stirrups re-bar diameter up to Ø12mm
- Stirrups side dimensions up to 2m





#### ■ G-STAR 8R SERIES

Cost effective stirrup production from coil



- · Servo-motor driven, programmable wire and re-bar bender
- Diameter changes completed in seconds, thanks to a carefully designed pre-setting system
- Adjustable counter-torsion (anti-twist) system always producing flat shapes regardless of re-bar quality and axial twist (patent)
- Diameter range up to 8mm

#### ■ G-STAR ECO SERIES

Cost effective stirrup production from coil



- Servo-motor driven, for heavy-duty continuous operation
- High production output due to retractable bending pin and cutting without reversing
- Excellent straightening without re-bar marking
- Fast diameter changes thanks to the "Hexagon Shaft Presetting System"
- Adjustable counter-torsion system
- Diameter ranges up to 10, 12, 14 & 16mm

# **■** G-STAR SE SERIES

Automatic re-bar stirrup benders from coil



- All straightening rollers powered, thus creating a positive, precise and evenly distributed feed force without re-bar marking
- Automatic roller adjustment and re-bar size changer
- Adjustable counter-torsion system always producing flat shapes regardless of re-bar quality, axial twist and bending direction
- Available with a selection of optional items, such as straight bar collector, ring forming attachment, stirrup collectors, etc
- Diameter ranges up to 12, 14, 16 & 20mm

#### ■ G-STAR TRIS SERIES

3-D stirrup benders processing coiled re-bar



- Sophisticated bending system employing one classical rotating bending plate with incorporated cutter and one 3-D bending device with retractable twin roller design for unlimited shape possibilities
- AUTOMATIC TORSION ELIMINATOR (ATE) always producing twist-free shapes regardless of re-bar quality, axial twist and bending direction (patented)
- Diameter ranges up to 12, 14 & 16mm

#### ■ G-STAR SP SERIES

Special bender for high output production of Continuity Systems stirrups from coil



- Elimination of secondary bending operations
- Sophisticated bending system employing one classical rotating bending plate with incorporated cutter and one 3-D bending device with a folding arm bending system for the production of 3-D stirrups
- Adjustable counter-torsion system
- Diameter ranges up to 12, 14 and 16mm

#### ■ G-STAR SB SERIES

Automatic re-bar benders working from straight bars



- With twin-rod simultaneous processing capabilities up to 16 mm
- AUTOMATIC TORSION ELIMINATOR (ATE) always producing flat shapes regardless of re-bar quality, axial twist and bending direction (patented)
- Automatic extraction of remaining bars
- Diameter ranges up to 16 & 20mm

# ■ G-STAR SB TRIS SERIES

3-D re-bar bender working from straight bars



- Sophisticated bending system employing one classical rotating bending plate with incorporated cutter and one 3-D bending device with retractable twin roller design for unlimited shape possibilities
- AUTOMATIC TORSION ELIMINATOR (ATE) always producing twist-free shapes regardless of re-bar quality, axial twist and bending direction (patented)
- Diameter ranges up to 16 & 20mm (16mm for 3-D stirrups)

# ■ FLEXIBLE RE-BAR BENDING SYSTEMS FROM COIL

Automatic bender the production of long stirrups from coil



- Automatic straightening roller adjustment and re-bar diameter changer
- Adjustable counter-torsion system always producing flat shapes regardless of re-bar quality, axial twist and bending direction
- Automatic batch collection through pocket storage conveyor
- Diameter ranges up to 16 & 20mm

# ■ SPIRAL SE SERIES

Continuous multi-layer stirrup bending machines



- Producing concrete reinforcing stirrups in continuous, multi-layer spiral form (patented)
- Collection table synchronized with feeding and bending subassemblies following the movement of the produced spirals, enabling accurate spiral production, even for large shapes, dimensions and multiple layers
- Diameter ranges up to 12mm & 16mm

#### ■ RINGOMAT SERIES

High-volume production of circular ring and spiral reinforcement stirrups from coil



- Employing a three-roller ring-forming device with two adjustable rollers
- Cutter located after last bending roller, ensuring no straight section left
- Even distribution of feeding force
- Diameter ranges up to 12mm and 16mm

# SPIRAL SP SERIES

Continuous rectangular stirrup bending machines



- Developed for the high-speed production of precision square/rectangular shaped spirals (patented)
- Four hydraulically operated bending heads mounted on a robust slide way achieving high output, with excellent accuracies but most importantly, repeatability and consistent quality
- Diameter ranges up to 6mm, 8mm 10mm & 12 mm

# ■ B- T, LT, ST & HD SERIES

Compact re-bar bending machines



- Easy to operate
- Maintenance free
- Clockwise or counter clockwise bending direction
- Equipped with two or four adjustable pinhole saddles ensuring precise setting of bending angles.

# ■ C- LT, ST & HD SERIES

Compact re-bar cutting machines



- Easy to operate and maintenance free
- Adjustable eccentric back stop for proper positioning of re-bars
- Anti-repeating device for single cut through lever or pedal control

#### ■ MBH & MBE SERIES

Mesh benders



- Available with electric and hydraulic drives
- Adjustable bending pins with centrally controlled locking system
- Computer angle selector for 10 different bending angles and 100 storable bending forms
- Mechanical adjustable cams of three different bending angles up to 180°
- Bending widths up to 3 and 6 meters

# **■ SYNTHETON SERIES**

Re-bar processing center incorporating multiline straightening and twin head bender from coil



- Up to six straightening lines, using our 4th generation straightening Rotor
- Automatic diameter changeover (patented)
- Automatic bending tool selection
- Servo-driven bending heads
- Available in various multi-line configurations, from three up to six lines (6-16mm), (8-20mm)

# ■ BENDOMAT "SE" SERIES

Flexible twin head re-bar bending system



- Re-bars aligned, loaded, bent and ejected automatically
- Unique design of the bending heads allowing them to move up and down and perform left and right hand bends (patented)
- The bending heads powered through servo-driven geared motors and re-bars locked centrally between the bending units ensuring excellent accuracies
- Ranges up to 26, 32 & 40mm

#### ■ BCF SERIES

Heavy duty fixed re-bar measuring & cutting machines



- Processing up to 10 re-bars simultaneously
- Fast and easy re-bar loading into the measuring and feeding channel
- Automatic feeding, measuring, cutting and separation of the processed re-bars
- Re-bars aligned automatically before entering the feeding and measuring channel.
- Available with powered roller discharge conveyors
- Ranges up to 26, 32 & 40mm

#### **■** BCM SERIES

Heavy duty laterally moving re-bar measuring & cutting machines



- Processing up to 10 re-bars simultaneously
- Fast and easy re-bar loading into the measuring and feeding channel
- Automatic feeding, measuring, cutting and separation of the processed re-bars
- Re-bars aligned automatically before entering the feeding and measuring channel.
- Available with powered roller discharge conveyors

# ■ MELC MONO-LINE SERIES

Precision straightening and cutting machines



- For heavy duty continuous operation, using our 4th generation hyperbolic roller straightening and feeding system
- Flying shear cutter for uninterrupted operation
- Ideal for high tensile or stainless steel re-bar straightening
- High production speed up to 120 m/min achieved without compromising straightening quality
- Special application modules available for re-bar twist control (patented)
- Ranges up to 30mm

# ■ MELC FLEXI-LINE SERIES

Flexible multi-line straightening and cutting machines



- Using unique convergence guiding system for automatic re-bar diameter changes in less than 2 seconds (patented)
- Extremely fast and automatic coil changes ensuring the production of different re-bar diameters in the same batch without complicated collection systems
- Flying shear cutter common to all lines
- Available in various multi-line configurations, from three up to six lines, (6-16mm) (8-20mm)

# ■ MELC POLY-LINE x2 SERIES

Two-line straightening and cutting machines



- Production speeds up to 160m/min
- Unique hyperbolic roller straightening and feeding system
- · No re-bar marking, maximum flexibility
- Each line working with the same or other diameter and the same or different length
- All lines working simultaneously or independently as required
- Flying shear cutter for uninterrupted operation placed on each line along with independent collection system for each

#### ■ MELC POLY-LINE x3 SERIES

Three-line straightening and cutting machines



- Production speeds up to 240m/min
- Unique hyperbolic roller straightening and feeding system
- · No re-bar marking, maximum flexibility
- Each line working with the same or other diameter and the same or different length
- All lines working simultaneously or independently as required
- Flying shear cutter for uninterrupted operation placed on each line along with independent collection system for each

# ■ MELC POLY-LINE x4 SERIES

Four-line straightening and cutting machines



- Production speeds up to 320m/min
- Unique hyperbolic roller straightening and feeding system
- · No re-bar marking, maximum flexibility
- Each line working with the same or other diameter and the same or different length
- All lines working simultaneously or independently as required
- Flying shear cutter for uninterrupted operation placed on each line along with independent collection system for each

#### ■ MELC POLY-LINE x5 SERIES

Five-line straightening and cutting machines



- Production speeds up to 400m/min
- Unique hyperbolic roller straightening and feeding system
- · No re-bar marking, maximum flexibility
- Each line working with the same or other diameter and the same or different length
- All lines working simultaneously or independently as required
- Flying shear cutter for uninterrupted operation placed on each line along with independent collection system for each

# ■ MELC POLY-LINE x6 SERIES

Six-line straightening and cutting machines



- Production speeds up to 480m/min
- Unique hyperbolic roller straightening and feeding system
- · No re-bar marking, maximum flexibility
- Each line working with the same or other diameter and the same or different length
- All lines working simultaneously or independently as required
- Flying shear cutter for uninterrupted operation placed on each line along with independent collection system for each

# ■ M-ROLL S & SE SERIES

Roller straightening and cutting machines



- A complete range of high-speed re-bar roller straightening and cutting machines for heavy duty continuous operation
- Available with hydraulic or high speed servo-motor drives
- Fast and accurate diameter change-over due to preset system
- Double re-bar processing capabilities
- Ranges up to 12 & 16mm

# **■** DE-COILING

Full range of de-coiling stations



- Equipped with either horizontal or vertical tension arm (depending on the coil type) and either mechanical or pneumatic brake for smooth de-coiling
- Powered versions available
- Pay off titling mechanism ensuring fast coil loading
- Load capacity up to 3T and 5T

#### ■ PRE-STRAIGHTENING

Full range of pre-straightening and guide rollers



- Standard and powered versions available
- Labor-free coil feeding and pre-straightening due to automatic operation (powered versions only).
- Operated through a hand-held remote control unit

# ■ ROLLER CONVEYORS

Automatic bundle transportation



- · With bundle aligning mechanism
- Efficient bundle transportation between different re-bar processing machines and/or bundle storage systems
- Multiline configurations available for simultaneous handling of different size bundles
- Optional with laterally moving and/or tilting mechanisms

# ■ POCKET STORAGE

Multiline pocket storage systems



- Manual or automatic versions available
- Single and double side discharge configurations,
- Can be attached either to a re-bar processing machine or to a conveyor depending on the preferred handling process

#### ■ POCKET CONVEYORS

Automatic bundle handling & transportation



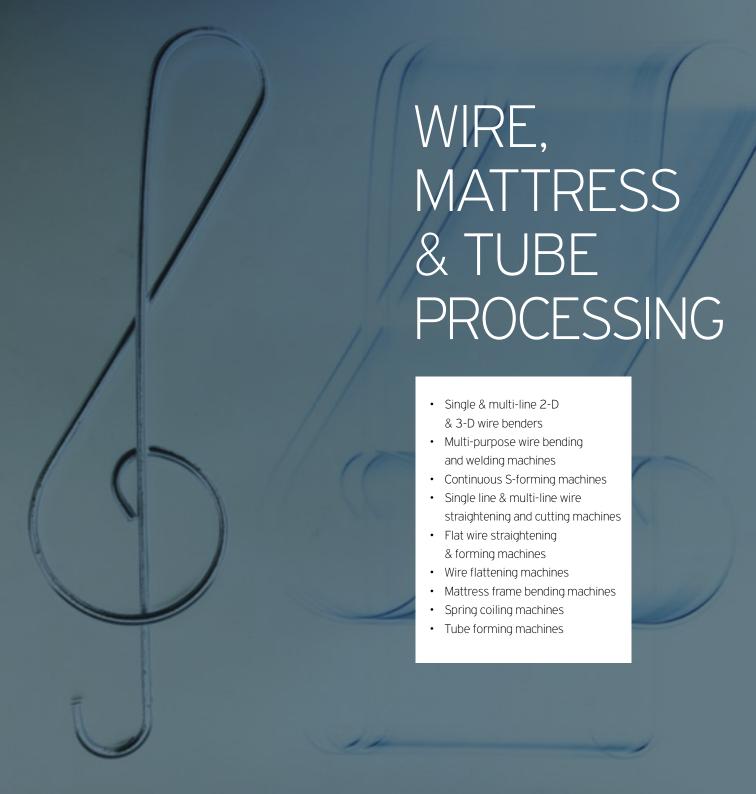
- Chain-driven pocket conveyor systems used either as buffer, transportation or storage.
- Single or double side discharge configurations
- Inclined versions available, when re-bar processing machines and/or storage systems are on different levels

#### BCM

Automatic bundling machine

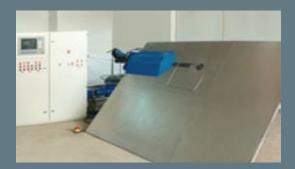


- Two types available: Moving -on rails- or fixed, depending on the bundle handling requirements
- Tying wire coil fed and automatically guided around the re-bar bundle.
- Simple layout and programming
- Labor elimination due to fully automatic operation



# **■** G-STAR SE-TRIS SERIES

2-D & 3-D wire benders



- Quick diameter changes accomplished via our carefully designed pre-setting system
- One of the two available types of wire bending heads, single and bi-directional, combined with our patented 3-D wire TWISTING unit ensuring fast and efficient production
- Anti-torsion mechanism guaranteeing wire twist control regardless of wire quality, bending direction, shape complexity
- Ranges up to 6, 8, 10 & 12mm

#### ■ G-STAR F-TRIS SERIES

3-D wire bender



- One of the two available types of wire bending heads, single and bi-directional, combined with 3-D wire TWISTING unit ensuring unlimited production capabilities (patented)
- Quick diameter changes accomplished via our carefully designed pre-setting system
- Anti-torsion mechanism guaranteeing wire twist control regardless of wire quality, bending direction, shape complexity
- Smart design of the 3-D rotating arm allowing infinite rotations
- Ranges up to 6, 8, 10 & 12mm

# **■** G-MULTI SERIES

Multi-line 2-D & 3-D wire benders



- Unique combination of multi-slide production output and CNC wire bender versatility
- Up to 6 simultaneously operating lines, reaching speeds up to 500 m/min (patented)
- One of the two available types of wire bending heads, single and bi-directional, combined with one or both available versions of 3D bending options (patented 3D wire TWISTING unit and 3-D rotating head) ensure unlimited production capabilities
- Ranges up to 6, 8, 10 & 12mm

#### ■ G-BEND-WELD SERIES

3-D wire bender with incorporated welding module



- Two 2-D bending heads combined with a retractable 3-D bending device offering unlimited shape possibilities (patented)
- Quick diameter changes accomplished via our carefully designed pre-setting system
- Anti-torsion mechanism ensuring wire twist control regardless of wire quality, bending direction, shape complexity
- Retractable welding for welded hook eye and "clevis" production
- Ranges up to 12 & 16mm

# **■** ZIG-ZAG SERIES

Automatic continuous "S" forming machine



- Servo-driven operation
- Adjustable bending heads for maximum efficiency
- Wire feeding from coil or pre-cut bars
- Available with two-level collector, for uninterrupted operation
- Ranges up to 8, 16 & 25mm

# SUV 6

Wire flattening machine



- High speed wire flattening machine with three step adjustable pressure rollers
- In-line cutting and forming modules available
- Range up to 6mm

# ■ MELC MONO LINE NC&MS SERIES

Wire straightening & cutting machine



- Single line straightening machines using our 4th generation hyperbolic roller straightening and feeding system
- Flying shear cutter ensuring uninterrupted operation minimizing wire marking and maximizing roller life
- Anti-twist twin-roller system (patented) guaranteeing the torsion-free production of wires during the straightening process
- Machines ranges from 2 up to 30mm

# ■ MELC POLY LINE NC&MS SERIES

Multi-line wire straightening machines



- Using our 4th generation hyperbolic roller straightening system
- Constant straightening quality of 1/1000
- Versions with up to three simultaneous working lines available
- Each rotor operating independently from the others, processing the same or different diameter
- Working ranges from 2 up to 12mm

# ■ M-ROLL L SERIES

Flat wire straightening machine



- Two-plane roller straightening subassemblies powered with a servomotor ensuring accurate feeding and excellent straightening
- Automatic roller adjustment mechanisms
- Specially designed cutting tools achieving excellent cutting finish
- Automatic packaging station

# ■ KR R & L SERIES

Mattress & seat frame bending machine



- Quality production of most types and sizes of mattress and seat frames, either from round or flat wire.
- Servo-driven straightening and bending system
- Enlarged bending table
- Available for round wire or flat strip from coil

#### ■ MBC SERIES

Double-loop bail-tie straightening and bending machine



- Straightening employs our 4th generation Rotor straightening method, ensuring excellent straightening results
- Flying shear cutter for uninterrupted operation
- Adjustable bending heads for different product lengths
- Two-level collection unit

# ■ FRAME MASTER

Automatic closed mattress frame bending machine



- Unique three-step frame production with new joining method (patented)
- Three frames produced simultaneously one on each step increasing the production of the machine and ensuring mechanical simplicity of each step
- Combined clipping and welding station securing both ends of the wire frame (patented)
- Unmatched output quality on all frame types and sizes

# ■ G-STAR SP SERIES

Wire frame and side support spring production



- Flexible servo-driven wire bender, producing all types and sizes for wire frames for seats and mattresses
- Equipped with specially designed external spring bending attachment for the production of mattress butterfly, side and corner-support spring units

# ■ CSM 040

Automatic conical spring production



- Servo driven operation
- Equipped with unique twin-head bending mechanisms, forming wire-loops on both ends of the spring
- In-line heat treatment module

# ■ PSA 22E & 45E SERIES

Automatic mattress pocket spring assembly machines



- Fully automatic operation ensuring minimal labor requirements
- All types and sizes of pocket innerspring mattresses produced efficiently and accurately
- Pocket strip can be cut at any point between adjacent springs
- Production of mattresses with double non-woven sheets
- Possibility of up to three types of pocket springs within programmable areas of a mattress

# ■ TS 20

Automatic mattress innerspring unit roll packing machine



- Efficient and simple to use operation
- Innerspring units of all types and sizes with bonnell, pocket and open end springs processed.
- Automatic discharge of the compressed rolls

# **■** GTC SERIES

Tube straightening, bending and cutting machines from coil



- Independent straightening units for each tube
- Servo-driven tube feeding and bending units
- High speed blade cutting operation
- Unique twin-center bi-directional bending head
- Simultaneous bending of up to four tubes
- Ranges up to 8mm & 12mm

#### **■** GTS SERIES

Wire, sectional & tube bending machine from pre-cut lengths



- Servo-driven bending and feeding operations
- Unique bi-directional bending head
- Processing pre-cut wires up to 10mm and tubes up to 16mm

# ■ GT-RES 2-D & 3-D SERIES

Tubular heating element bending machines



- 2-D & 3-D machine versions available
- Servo-driven bending and feeding operations
- Unique bi-directional bending head
- Automatically measurement and symmetrical adjustment of length variations within the same production batch
- Ranges up to 8mm

# **■ MELC-T SERIES**

Tube straightening & cutting machine from coil



- Tube straightening machines using our 4th generation hyperbolic roller straightening and feeding system
- Servo-motor driven feeding operations ensuring high length cutting accuracies
- High speed blade cutter or rotary 3-disc cutter (as option)
- Ranges up to 8, 12 and 16mm

