

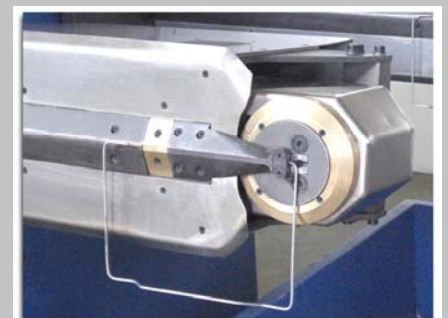
# ***G-STAR F-TRIS SERIES***

***INNOVATIVE CNC BENDING MACHINES FOR THE WIRE INDUSTRY***



***TWO INDEPENDENT 3D BENDING SYSTEMS  
FOR UNLIMITED FLEXIBILITY***

- A full range of CNC programmable wire bending machines for the production of two and three-dimensional wire forms
- Heavy duty construction and minimum set up requirements due to ergonomic design.
- The three available types of wire bending heads, single, bi-directional and multi-tool combined with one or both available versions of 3-D bending options cover all wire forming applications.
- A self-diagnostic system enables troubleshooting of machine operation.
- The machine can be accessed, monitored and operated from our service centers in real time mode for regular maintenance purposes and on-line support.
- The software also provides statistics on wire requirements, production weights and rates either by order, diameter, shape, etc.
- Two robust roller subassemblies powered with a servomotor ensure accurate feeding and excellent straightening.
- The lower rollers of the straightening unit are powered, thus creating a positive, precise feed force.
- Wire marking is reduced to a minimum and roller life is maximized due to even power distribution and offset roller design.
- Adjustable counter-torsion (anti-twist) mechanism ensures control of wire twist regardless of wire quality. (patented)
- Diameter changes can be completed in less than two minutes, thanks to a carefully designed pre-setting system.



# G-STAR F-TRIS SERIES

## BENDING FLEXIBILITY AT ITS VERY BEST



- Two types of 3D bending units are available.
- Wire-twisting unit type "TRIS". The system can create 3D bends very fast and is ideal for small wire forms.
- Rotating bending head type "F". The bending head is mounted on a rotating arm and revolves around the wire axis, thus creating 3D bends. Very accurate parts can be produced especially on large 3D parts.
- Due to heavy duty Slip Ring unit unlimited rotations of bending arm can be performed.

- The combined operation of the 3-D wire TWISTING unit and the 3-D ROTATING arm (PATENTED) achieve higher PRODUCTION SPEEDS and ENORMOUS POWER CONSUMPTION SAVINGS.

Three types of 2-D bending units are available

- A right-hand bender type DE
- A Twin-centre bidirectional bender type SE
- A bidirectional multi-tool bender type TSE
- 30% higher production output on DE and SE type bending units, compared to conventional benders, due to built-in cutter and cutting without reversing.
- Due to smart design of the bending head, cutting on a radius is possible allowing creation of perfect circular parts or rings.

G-STAR F-TRIS Series are available with the following optional items:

- Various types of external bending unit
- Wire chamfering unit
- Product I.D. stamping & punching
- Automatic butt-welding device
- Integrated Robotic arm and product transfer units
- Automatic parts collector
- Various types of de-coiling stations



Working Range		G-STAR 2-6	G-STAR 3-8	G-STAR 4-10	G-STAR 5-13
Wire diameter range* < 600 N/mm <sup>2</sup>		2-6 mm*	3-8 mm*	4-10 mm*	5-13 mm*
		0.0787"-0.236"	0.118"-0.315"	0.157"-0.393"	0.196"-0.5"
Wire diameter range < 1200 N/mm <sup>2</sup>		2-4 mm	3-5 mm	4-6 mm	5-9 mm
		0.0787"- 0.157"	0.118"- 0.196"	0.157"-0.236"	0.196"-0.354"
Max. feed speed		120 m/min	110 m/min	100 m/min	100 m/min
		395 ft/min	360 ft/min	328 ft/min	328 ft/min
Max. bending rate		1400°/sec	1200°/sec	1000°/sec	800°/sec
Max. rotation angle 3-D		infinite	infinite	infinite	infinite
Wire feeding accuracy		±0.05 mm	±0.05 mm	±0.1 mm	±0.1 mm
		±0.002"	±0.002"	±0.004"	±0.004"
Angle bending accuracy		±0.1°	±0.1°	±0.1°	±0.1°

\*Smaller diameters with additional tooling

For a free video CD, samples and your nearest EUROBEND representative, please, contact:

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