MULTIAXIAL/EL-32

Electronic double needle bed warp knitting machine

for reinforcement fabrics, composites and technical articles for components, energy and aerospace.

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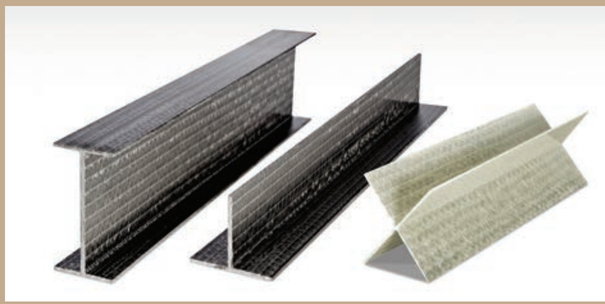
MULTIAXIAL/EL-32

Warp knitting machine for multiaxial reinforcement fabrics and composites

MULTIAXIAL/EL-32 is a double needle bed warp knitting machine with electronic control, specially designed for the development of multiaxial fabrics, composites and technical textiles for components, energy and aerospace sectors. Thanks to its versatility and flexibility, this is the ideal machine for research and development processes in textile laboratories.

Multiaxial fabrics.



Composites, *images by Sächsisches Textilforschungsinstitut e.V. (STFI).*

Features

- Device for feeding yarn in an adjustable, diagonal direction with respect to the needle bed.
- Carousel creel with special spools for the insertion of the wefts.
- Compact machine design with all integrated devices including the beam support.

Advantages

- Reduced working width allows fast article changeovers, providing time and cost savings.
- Maximum flexibility in applications and materials: carbon, glass and aramid fibers, as well as all their combinations, can be processed.
- Easy handling thanks to the access to the knitting area from both sides.

Applications

- Multiaxial reinforcement fabrics.
- Composites textiles.

Benefits

- Extreme safety: safety light barriers protect operators from possible accidents.
- Actuators provides excellent dynamic performance and high positioning accuracy.
- Data Control Controller allows to check production data and carry out long pattern repetitions through the touch screen.

Technical Specifications

Gauge (n.p.i.)	10
Number of needle grooves on needle bed	320
Working width	812.8 mm
Number of guide bars	Up to 8 with electronic control
Number of sinker bars	2
Distance between needle beds	1 - 20 mm
Needle type	Latch needles
Stitch density on both needle beds	1 - 40 stitches/cm
Electrical supply mains	200 - 240 / 380 - 440 V, AC, 3-phase + neutral + ground
Main motor power	4.3 kW
Installed power	8 kVA (including carousel creel)
Net weight	
Machine with 8 beam carrier shafts Carousel creel	approx. 3000 kg approx. 900 kg

Standard devices

- Carrying frame with 8 beam carrier shafts with electronic control, applied to the structure (ST-32 and SU.V/CE-32)
- Diagonal device for feeding yarn in an adjustable, diagonal direction with respect to the needle bed
- Carousel creel with special spools

Special devices and accessories

- Electronically controlled long-shifting device on 1 bar for max displacements of 580 mm (DLT).
- Electronically controlled yarn feeders and finished product collectors
- Exclusive mymueknit textile software for pattern design and programming.

Customer care

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