

800 ACO/EL

Crochet knitting machine with electronically controlled yarn tension and stitch density regulation for the production of narrow fabrics with lock-stitch structure



A MEMBER OF JAKOB MÜLLER GROUP

800 ACO/EL

CROCHET KNITTING MACHINE WITH ELECTRONICALLY CONTROLLED YARN TENSION AND STITCH DENSITY REGULATION FOR THE PRODUCTION OF ELASTIC AND RIGID FABRICS AND TAPES AS WELL AS FOR PRODUCTS WITH LOCK-STITCH STRUCTURE

▲ GENERAL FEATURES

The machine is equipped with:

- 3-roller feeder for elastic threads
- Heddle bar for elastic threads
- Electronic speed variator INVERTER
- Warning light
- Work area safety device
- Chain links extension for up to 48 repeats
- Automatic tensioner for warp threads
- Weft device with 2 levers
- Colour touch screen DATA CONTROL controller, which manages all necessary machine functions and monitors production data
- Automatic stop motions for incorrect product winding onto the rollers
- Automatic stop motions for thread breaks or empty cones

▲ ADVANTAGES FOR USERS

The compound needle makes the machine highly versatile as it allows the processing in the warp – in addition to classic synthetic yarns (polyester, polyamide, polypropylene) – of natural yarns (cotton, wool) and special fibres (aramid, fibreglass).

It is equipped with 8 weft bars controlled by chain links, composed of links presenting an involute profile, allowing weft movements of up to 30 mm and allowing high operating speeds and low noise emission levels. As an alternative, two bars can be driven by the weft device for weft movements of up to 50 mm.

The electronic operating system allows to choose different stitch density values on one single product as well as different values for weft feeding and elasticity. The yarn tension and stitch density are programmed by our exclusive COMEZ DRAW 3 or SYSTEM.WIN PC software. Datas are transferred from a PC to the controller on the machine by means of an USB key.

▲ MAIN APPLICATION SECTORS

The machine offers a wide range of product options and applications such as:

- Astrakhan with close loop
- Articles for house cleaning
- Furnishing ribbons and tapes

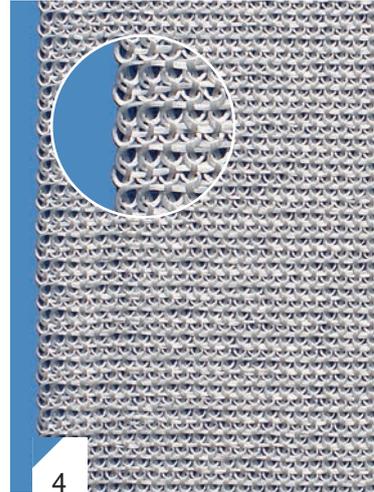
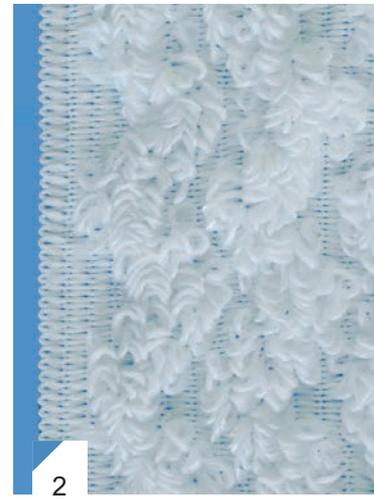


- Sportswear ribbons
- Medical and orthopaedic textiles (bodybelts, gauzes and bandages)

▲ SPECIAL DESIGN ON REQUEST

The machine can be equipped with:

- The additional warp tube bar (BPO/S-800A) is an important feature on this machine, as it can be used as second warp bar, providing a lock-stitch effect on the fabric or – in conjunction with the TED/V device – the production of the female part of Astrakhan fasteners. Using the BPO/S-800A together with the standard warp bar which is driven by special cams (TRICOT/S), and thanks to the compound needle, it is possible to obtain various knit constructions (simple lock-stitch, double lock-stitch, etc.), different from those normally obtained.
- A double warp thread feeder, especially useful for the production of the female Astrakhan part. Allows for a differentiated tension between the warp threads forming the edge (without Astrakhan effect) and those on the central part of the ribbon (with Astrakhan effect). In addition, the use of the device TED/V allows production regularity along the machine's entire operating width.
- It is available the SET150/800A.CF device, with a carbon fibre bars. Adjustable weft movements are up to 150 mm.



▲ PICTURES

- 1-4 Samples and applications for technical articles, Astrakhan, orthopaedic belt, fibreglass
- 5 Knitting area
- 6 Beam carrier and shaft with electronic control

ALTERNATIVE TECHNOLOGIES FOR CROCHET KNITTING WITH COMPOUND NEEDLES

▲ 610 ACO

Crochet knitting machine for the production of elastic and non-elastic narrow fabrics with lock-stitch structure, in particular for technical applications

▲ ACOTRONIC

Electronic crochet knitting machine using compound needles for the production of ribbons, nets, technical and medical textiles



TECHNICAL SPECIFICATION

Gauge (n.p.i.)	10	12	14	15
Number of needle grooves on needle bed	312	378	442	468
Working width (mm)	778	792	794	794
Number of weft bars	8 controlled by chain links			
Needle type	compound needles (COMEZ)			
Stitch density	2 - 11 or 5 - 25 stitches/cm			
Chain links ratio	12 - 48			
Electrical supply mains	200 - 240 / 380 - 440 V, AC, 3-phase + earth			
Main motor power	1.5 kW			
Installed power	4 kVA			
Machine net weight	860 Kg			

▲ DIMENSIONS

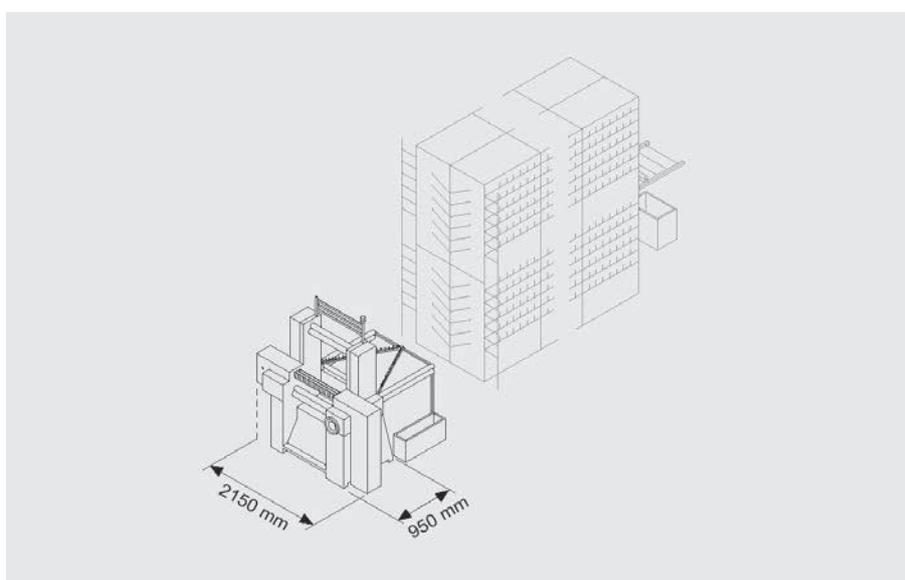
800 ACO/EL

Width: 2150 mm

Depth: 950 mm

Height: 2350 mm

Net Weight: 860 kg



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