

# 610 ACO/EL • 800 ACO/EL

Hybrid crochet knitting machine with electronic control of yarn tension and stitch density for narrow fabrics with lock-stitch structure



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CROCHET KNITTING MACHINE EQUIPPED WITH 8 WEFT BARS CONTROLLED BY CHAIN LINKS, WITH ELECTRONICALLY CONTROLLED YARN TENSION AND STITCH DENSITY REGULATION. IDEAL 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 with electronic control
- 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

### ▲ 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 as well as yarns made out of special materials (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, high operating speeds and low noise emission. As an option, 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 densities on one single product as well as different values for weft feeding and elasticity. The yarn tensioning and the stitch density are programmed by our exclusive COMEZ DRAW 3 or SYSTEM.WIN PC textile software. Data is transferred from a PC to the controller on the machine by means of a 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





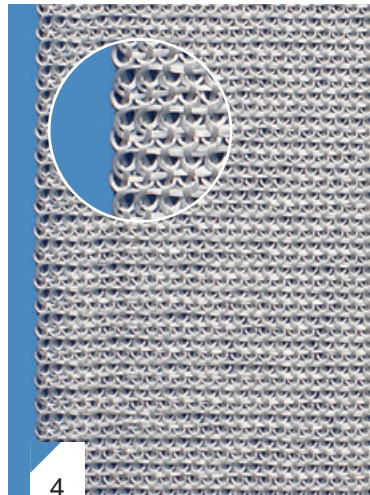
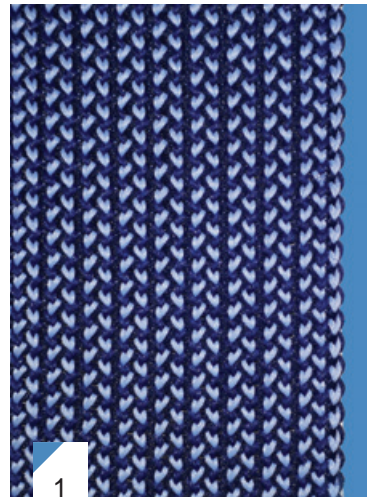
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- Sportswear ribbons
- Medical and orthopaedic textiles (bodybelts, gauzes and bandages)

### ▲ SPECIAL DESIGN ON REQUEST

The machine can be equipped with:

- The additional warp tube bar (BPO/S device) 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 loop of Astrakhan fasteners. Using the BPO/S 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, enables 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 device, with 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 / 800 ACO

Crochet knitting machine for the production of elastic and rigid 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

## 610 ACO/EL • 800 ACO/EL

Gauge					
610 ACO/EL (n.p.i.)	10	12	14	15	20
610 ACO/EL (n.p.cm.)	4			6	8
800 ACO/EL (n.p.i.)	10	12	14	15	
Number of needle grooves on needle bed					
610 ACO/EL	240	279	340	360	480
800 ACO/EL	312	378	442	468	
Working width (mm)					
610 ACO/EL	598	587	611	611	599
800 ACO/EL	778	792	794	794	
Number of weft bars	8 controlled by chain links				
Needle type					
610 ACO/EL	Compound needles (Comez or Jakob Müller)				
800 ACO/EL	Compound needles (COMEZ)				
Stitch density	2.5 - 30 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	6.5 kVA				

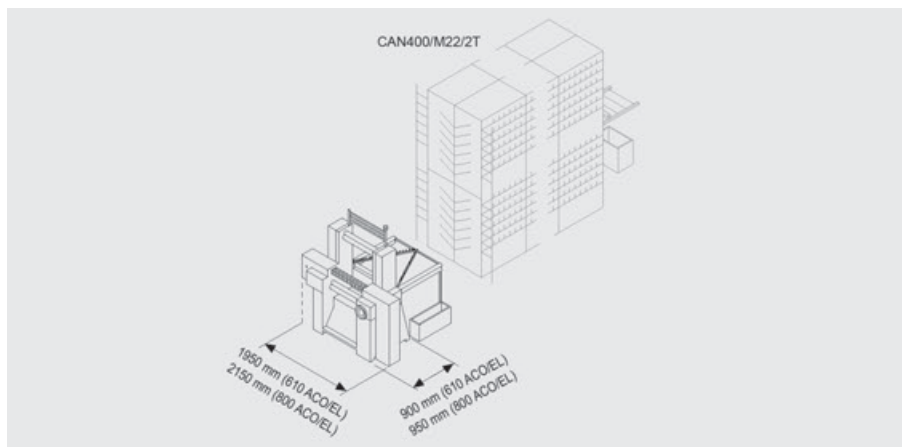
## ▲ DIMENSIONS

### 610 ACO/EL

**Width:** 1950 mm  
**Depth:** 900 mm  
**Height:** 2200 mm  
**Net Weight:** 700 kg

### 800 ACO/EL

**Width:** 2150 mm  
**Depth:** 950 mm  
**Height:** 2350 mm  
**Net Weight:** 860 kg



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