

MEC-MOR

GARMENT LENGTH CIRCULAR KNITTING MACHINE
WITH TRUE RIB BORDER

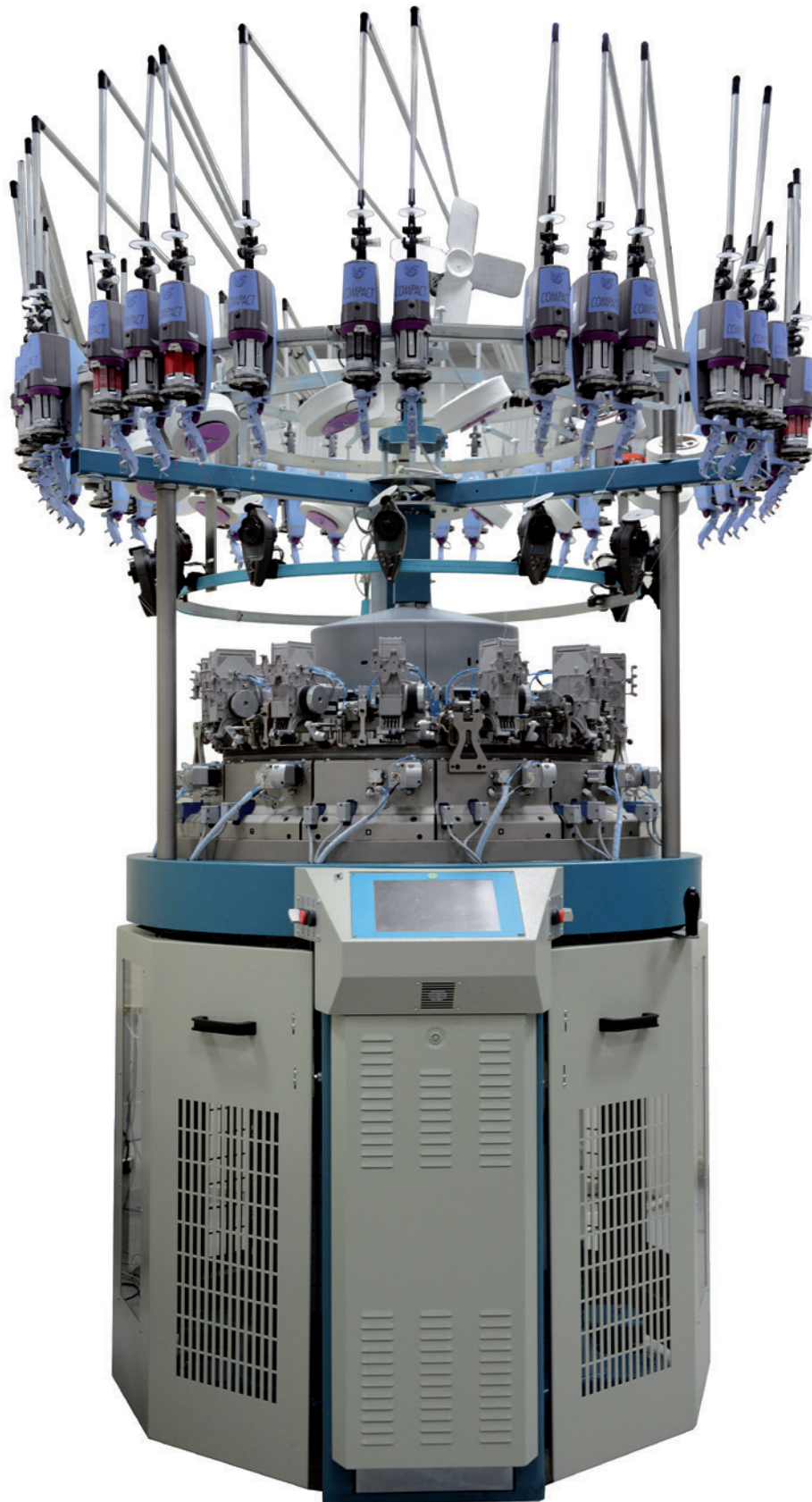
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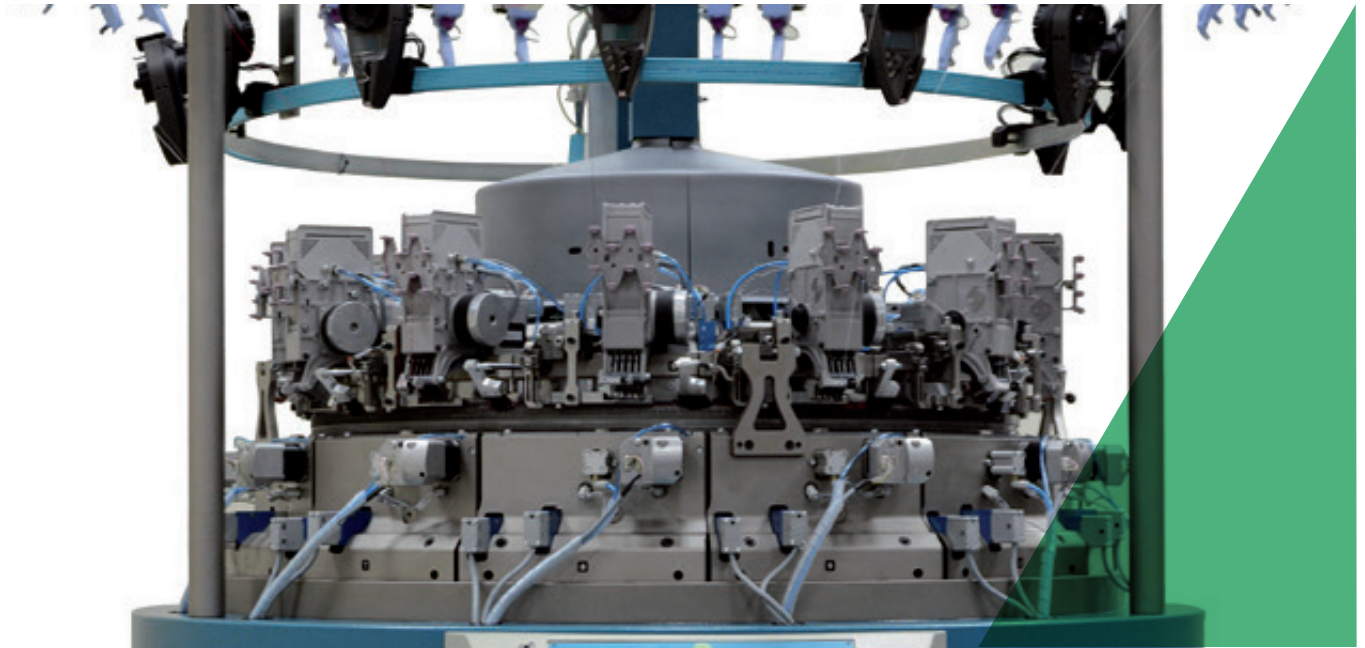
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The new double jersey circular MEC-MOR CMP with open variable (Variatex technology) for the production of garments in weft knitting offers a high quality finished item (circular knitting machine) and a high productivity with large number of feeds (12).

The variable width of the fabric panel allows to set the number of working needles for the required product which in turn enables to realize with a single machine all the sizes without wastages.

The machine has a 33 " diam and gauges from E10 to E20. It consists of 12 "integral" feeds with piezoelectric selection "needle-needle" on 3 technical ways both for the cylinder and for the dial.

The 12 "integral" feeds are automatically configured by the graphic programming system (SMI) to obtain maximum productivity. The "integral" feed on each course can be changed from a stitch feed to a transfer feed.

Transport on the 12 integral feeds can be:

Unidirectional: from dial to cylinder or from cylinder to dial.

Bidirectional: transport takes place simultaneously in both directions on the same feed. The transfer cams have been carefully designed to transfer the knitted stitches produced using bulky or delicate yarns with maximum efficiency.

Different kind of needle are available there are different types of hooks, equipped with either standard or spring loaded latches.

The yarn feeding system uses a 4-color striper with the possibility of feeding bare lycra when producing stretch garments.

The striper is electronically controlled by a step by step motor and a pneumatic selector.

It is possible to create complex knit structures with many colors or with various types of yarn, like:

- jacquard (single and double jersey) - more colors per course
- striped - links links - pleated effects - sculptured terry effects - bare lycra / plating - bags etc

CMP OPEN VERSION

The take-down group of the CMP OPEN machines allows the stretching of the fabric and collates it consistently and efficiently.

- Three spiral rollers equipped with different types of profiles extend the fabric without creating overlays or creases.
- The spiral rollers are controlled by a brushless motor; The speed can be adjusted on the machine to optimize the stretch
- tension depending on the yarn used or the type of fabric produced.
- Rubberized rollers after the tension rollers ensure that the fabric is rolled in a consistent manner.
- The collection system is only in operation when fabric is actually being produced.
- The independent brushless motor allows the rolling of the fabric without any distortion.
- The system ensures that the fabric is always centralized even when the width of the fabric is varied.
- Safety is guaranteed by control sensors that stop the machine in case of anomalies.
- The collection unit can roll fabrics up to a maximum width of 2030 mm with a roll diameter of 380 mm.
- The technological process is completely covered by patents.

Diameter	33"					
Gauge	10	12	14	16	18	20
Number of needles	826	992	1156	1322	1488	1650
Feeds	12 integral, self-configurable (total number of feeds = 12).					
Racking	+/- 3 needles with centesimal correction.					
Stitch transfer	The machine is equipped with clip needles for the transfer of both the dial and cylinder stitches. The adjustment of the approach of the needles is automatic and with centesimal adjustment.					
Delayed timing	Dial and cylinder.					
Needle bed width	Max. 2100 mm					
Striper	4 yarns per feed. The 4 yarns can be used for bare and covered elastomers.					
Characteristics of yarnfinger	Number 2 yarn supply channels. A channel for yarns 1-2-3 and a channel for yarn 4 (plating channel).					
Stitch Density	Adjustable on 100 levels.					
Take down	Pneumatic with 17 independent rollers (2 zones) programmable on 100 levels.					
Speed	Max 22 RPM (1.1 m/s).					
Safety stops	Smart needle detector - Dial selector - Cylinder selector - Yarn guide - Broken yarn.					
Yarn creel	Back creel with 36-48 cones. Options: air jets and twist brakes.					
Lubrication	Pneumatic control unit and independent oil management between the cylinder and the dial.					
Machine movement	Asynchronous motor 5.5 Kw controlled by inverter and two devices for manual movement.					
Average power	3 Kw					
Feeding units	LGL:ECOMPACT, ECOMPACT ATTIVO; MEMMINGER:MSF3; BTSR:UNIFEEDER2; for elastomer LGL:SPIN; BTSR:ULTRAFEEDER					
Electronic controller	New X0 Dinema electronics with PowerPC 400Mhz microprocessor, 4GB (about 2.5GB free for the user) of Flash, 1GB of Ram, with 10.4 "color touch-screen display and panel with USB socket.					
Programming	Santoni SMI (Windows compatible).					
Optionals	Lycra Kit, Lycra Suppliers, Terry Kit, Graphic Software, Ethernet Card.					

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● PROGRAMMAZIONE GRAFICA CON SOFTWARE "SANTONI SM1"

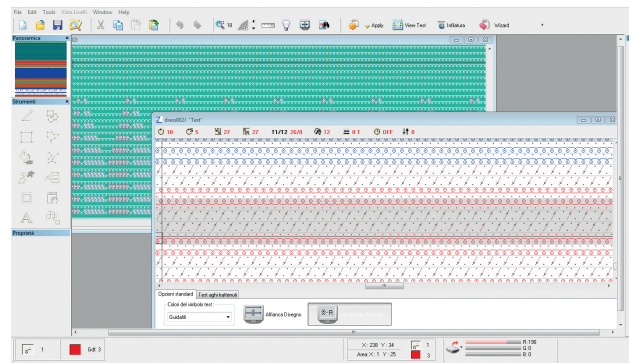
Control software uses a 10,4" wide touchscreen display with SANTONI SM1 graphic programming software.

This fast and multi-windows software, comes complete with many utilities to make it easy for the user to copy and replicate, geometric functions, etc. Its tools are specifically designed for knitwear and making technical drawings.

Programming is structured to ease and speed up the knitting of fabrics like: jacquard, dropped stitches, transfer stitches, braiding, etc. A border supplied on the software library complete with separation can be applied to each fabric. Pattern is built using the colors provided in the library. Colors will define each working sequence in the machine in order to automatically obtain the preselected stitch type. The library lists modules that if inserted in the pattern allow for automatically achieving complex sequences of knit and transfer stitches. An auto-test module available in the library can be inserted to highlight stitch profile and trouble shoot unidentified errors.

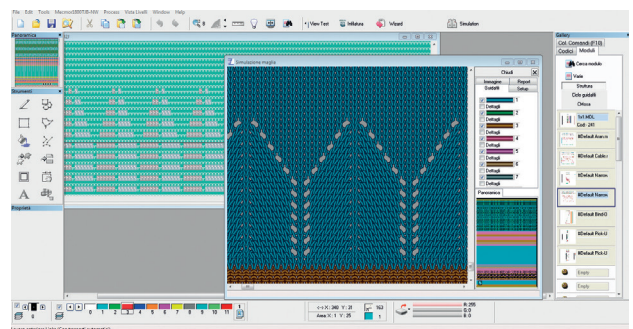
All machine parameters like: stitch density, takedown speed, etc. are graphically managed in the drawing using side icon bars. A single working window allows for a quick and rapid visualization of the working area. The same program can be used independently regardless of the different gauges, simply by inserting data on the machine. It is also possible to import designs from several origins.

The program automatically converts inserted data guaranteeing quick and safe conversions. [01]



01

This profile test can be seen also as a simulation to allow to have a realistic result of what the stitch structure looks like. [02]



02

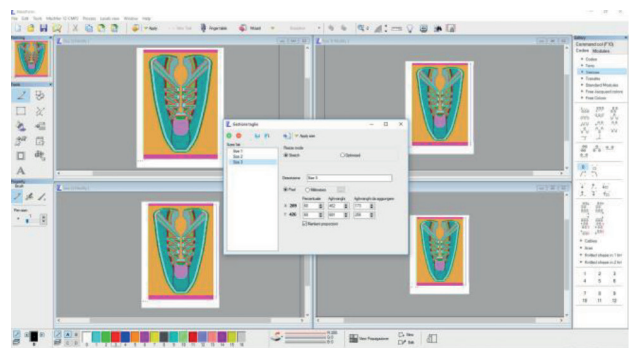
● OPTION: SANTONI SM1 PLUS

The Plus package, which is available for the SM1 software, is a tool that speeds up the creation of various sizes (applicable to uppers or any type of fabric).

Using an optimised scaling algorithm, it is possible to generate a list of sizes of an equal knitting quality in one step starting from a basic size.

The mesh structures and geometric shapes do not lose resolution, thus minimising correction interventions by the operator.

The so-generated size becomes an independent pattern that can in turn be modified and exported as desired.



DISCLAIMER:

Technical data given in this brochure are for information only. Santoni S.p.A. reserves the right to modify the machine features without forewarning and without the obligation to apply any modification to the machines already installed. Pictures are exemplifying and have not to be regarded as a reference.

Santoni is recommending needles from
GROZ-BECKERT®



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