

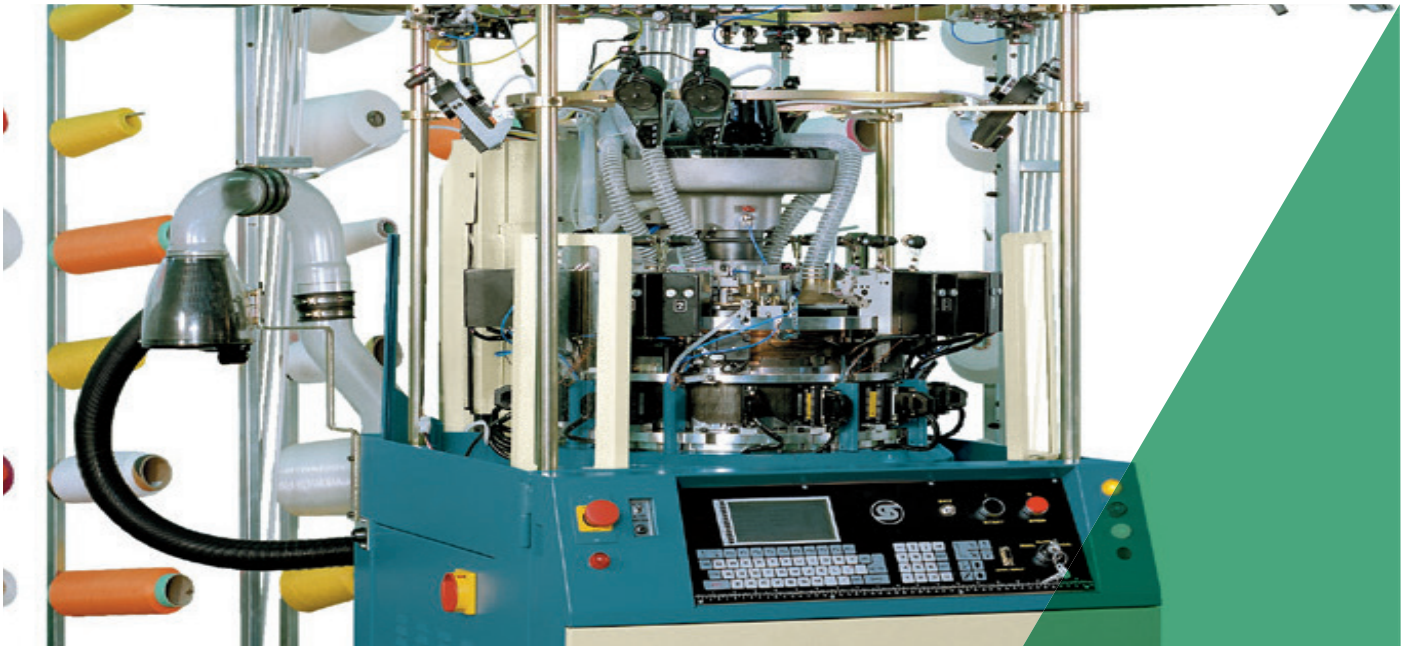
SEAMLESS TECHNOLOGY

ELECTRONIC SEAMLESSWEAR KNITTING MACHINE
SM4-PLUS3 SINGLE JERSEY

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SM4-PLUS3 SINGLE JERSEY

Single jersey electronical circular machine with 4 feeds, 3 needle by needle selection points on each feed, for the production of seamless garments for underwear, outerwear, beachwear, sportswear and medicalwear. System patented by SANTONI that allows the realization on 4 feeds of patterns having an high definition and sharpness of the color.

SEAMLESS TECHNOLOGY

SM4-PLUS3 SINGLE JERSEY

TECHNICAL FEATURES

● DIAMETERS

10" - 11" - 12" - 13" - 14" - 15" - 16"

● MACHINE GAUGE

Npi 16 - 22 - 24 - 26 - 28 - 32

● NEEDLES GAUGE

From gg 48 to gg 75.

● NUMBER OF FEEDS

4 for any diameter.

● MAXIMUM SPEED

For diameters from 10" to 12" speed factor from 1800 (10" 180 rpm) in plain jersey.
For diameters from 13" to 16" speed factor from 2340 (13" 180 rpm) in plain jersey.

● TYPE OF SELECTION

n° 3 actuators with 16 levels on each feed.

● STRIPPING YARNFINGERS

10 multiposition yarnfingers on each feed (SANTONI patent): n.7 yarnfingers 4 of which having 6 positions and 3 having 4 positions; further on 3 color yarnfingers with 4 positions.

● TRAPPER FOR BARE AND COVERED ELASTIC YARN

n° 2 on each feed and n° 1 for elastic welt on 1st feed (optional on 3rd feed).
Optional: 3rd elastomeric trapper, on each feed, for yarnfinger n.7.

● DIAL JACKS AND YARN CUTTER

Dial vertical movement pneumatically driven.

● SUCTION SYSTEM

By two suction fans or central system. Take down tube Ø 150 mm. Garment transfer tube Ø 100 mm. Air limiting valve with electronic incremental programming. On request: kit antitwist with the rotating tube.

● STITCH CAMS

Stitch formation adjustment by step motors done in an independent way on each feed, with possibility of loop widening, tightening and shading on the same course (Santoni patent). On board garment sizing, adjustable in cms or inches.

● SINKER CUP

Closed track cam circuit with spring-moved presses for stitch compensation.

● MAIN KNITTING POSSIBILITIES

Single or double welt knitted with jacks in different selection possibilities, elastic yarn can be knitted-in, floated or inlaid.
4 feeds knitting with 3 technical ways plus color.
On request: tuck / clearing cam for 2 technical ways and 2 colors; 2 mobile stitch cams to work on 2 feeds for getting more colors on the same course.

● YARN FEEDERS

1 SFE Memminger on each feed; n° 1 B TSR ULTRAFEEDER for elastic welt on 1st feed; n°4 feeders LGL Santoni ECOPOWER with serial connection enabling visualization on board display of yarn absorption.
Optional: B TSR ULTRAFEEDER; SFE MEMMINGER – ELAN; LGL SANTONI ECOPOWER and/or SANTONI ECOPOWER ATTIVO; DINEMA YOYO.
Yarn sensors n° 1 optical serial sensor per each yarnfinger (40 in total).

● CREEL

Complete back creel.
Option: creel with pneumatic threading or closed creel for cotton kit.

● LUBRICATION

Pneumatic pump with oil recycle.

● CYLINDER ROTATION

Brushless motor and electronic handwheel for manual control.

● ELECTRONIC CONTROLLER

HIE Electronic (High Integration Electronic) with integrated board from Dinema, for the serial checking of all exits, protected from short circuit. RAM memory capacity of 6 MB.

TECHNICAL FEATURES

● MACHINE KEYBOARD

Color Keyboard with monochromatic display backlit.

● PROGRAMMING

Software Diagraph 3 Plus including ATLAS, QUASAR, PHOTON, GALOIS. The programs can be transferred to the machine by FDU-2/3, by USB key or by cable directly from the PC.

● CONSUMPTION

Absorbed power: fans 4,1 kW (at 400V / 50Hz) or 5,1 kW (at 220V / 60Hz); motor 2,2 kW.
Compressed air: 50 Lt/min at 6 bar.

● WEIGHT

Approx. Kg 600.

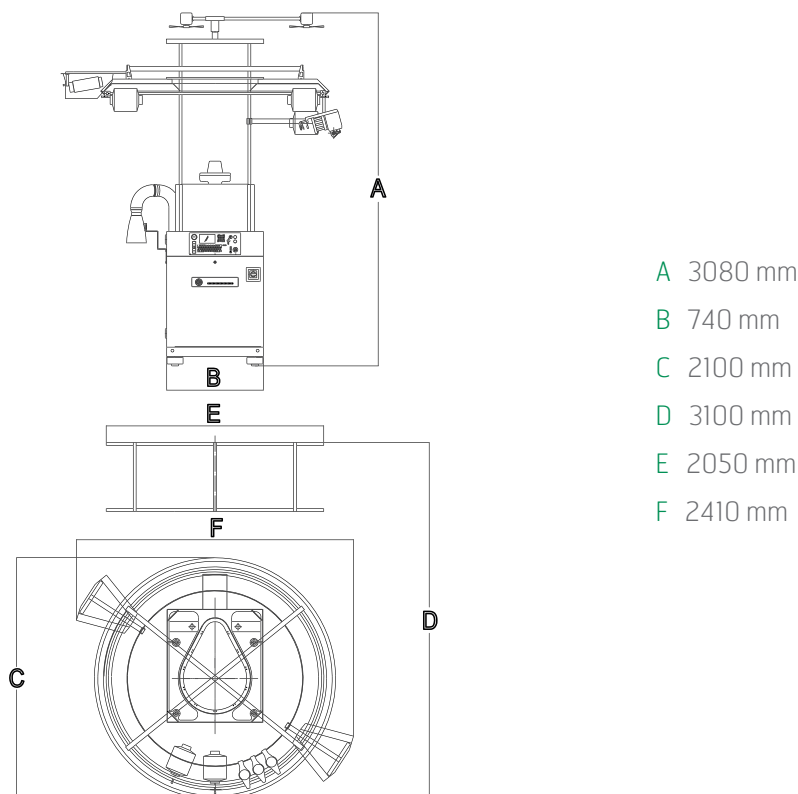
● PRODUCTION

SEAMLESS-WEAR, UNDERWEAR, OUTERWEAR, SWIMWEAR, SPORTSWEAR (possibility to use a wide range of yarns).

● NORMATIVE

The machine meets the CE normative and is UL compatible.

TECHNICAL DRAWING AND SIZE



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.



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