

# SEAMLESS TECHNOLOGY

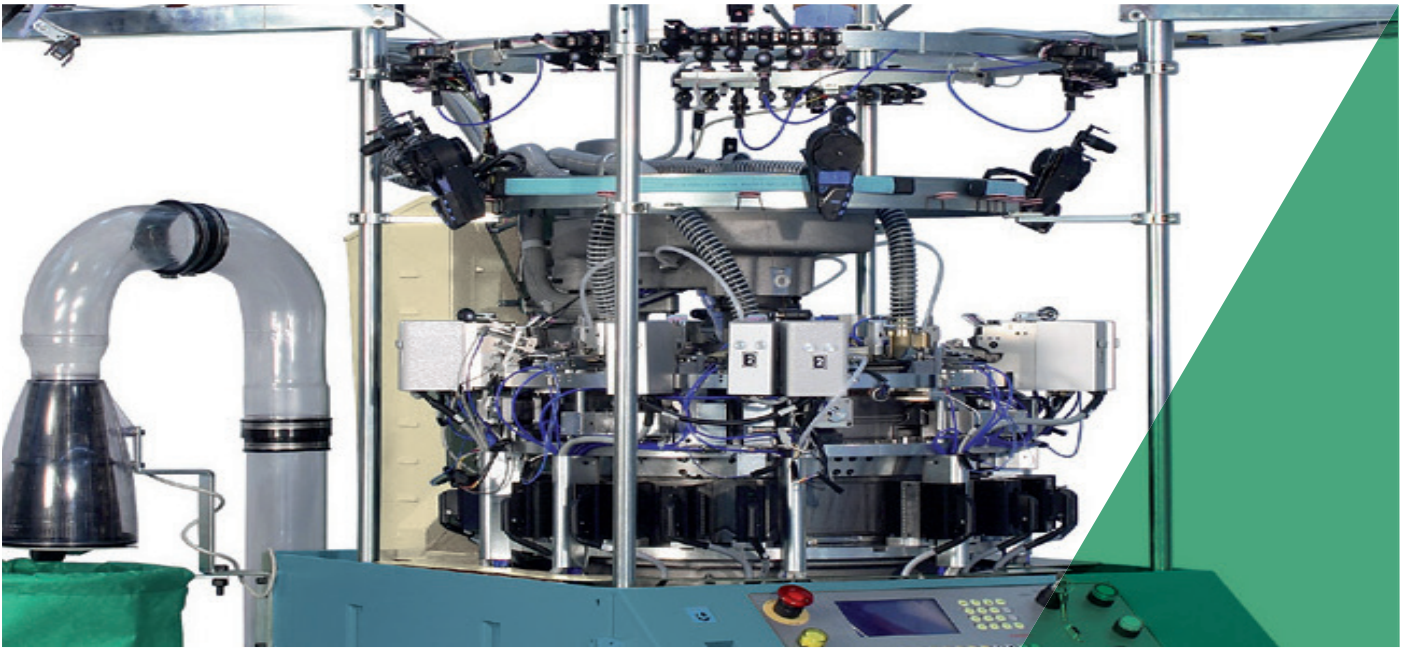
ELECTRONIC SEAMLESSWEAR KNITTING MACHINE

## SM4-TR2 SINGLE JERSEY

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### SM4-TR2 SINGLE JERSEY

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4 Feeds single jersey circular electronic machine having 2 selection points on the knit feed, plus 2 selection points for the knitting of fishnet or anti-drop stitch structures (Santoni patent). The machine allows knitting of seamless garments for underwear, outerwear, swimwear, sportswear, sanitarywear. System patented by SANTONI that allows the realization on 4 feeds of patterns having an high definition and sharpness of the color.

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# SEAMLESS TECHNOLOGY

## SM4-TR2 SINGLE JERSEY

### TECHNICAL FEATURES

#### DIAMETERS

14" - 15" - 16" - 17" - 18" - 20"

#### MACHINE GAUGE

Npi 16 - 20 - 24

#### NEEDLES GAUGE

gg 48 and gg 54.

#### NUMBER OF FEEDS

4 for any diameter.

#### MAXIMUM SPEED

Diameters from 14" to 20" speed factor 1300 (14" 90 rpm) when knitting plain jersey.  
Diameters from 14" to 20" speed factor 1000 (14" 70 rpm) when knitting fishnet fabric.

#### TYPE OF SELECTION

n° 2 + 2 actuators with 16 levels on each feed.

#### STRIPPING YARNFINGERS

11 multiposition yarnfingers on each feed (patented by Santoni) n. 3 + 4 yarnfingers on the main feed; 2 yarnfingers on the 1st color, 2 yarnfingers on the 2nd color.

#### TRAPPER FOR BARE AND COVERED ELASTIC YARN

n° 3 units on each feed.

#### DIAL JACKS AND YARN CUTTER

Dial vertical movement driven by step by step motor which allows the height variation of the cutter work.

#### SUCTION SYSTEM

By 2 suction fans or central system. Inner tube stitch formation Ø 150. Garment transfer tube Ø 100 mm. Air limiting valve with electronic incremental programming.

#### STITCH CAMS

Stitch formation adjustment using step 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 both cms and inches.

#### SINKER CUP

Close tracks cam box with fixed pushing procedure.

#### MAIN KNITTING POSSIBILITIES

Single or double welt carried on with jacks, in several selections, with knitted, floated or laid-in elastic yarn. With 4 feeds on the same course: 3 technical ways plus fishnet and/or anti-drop stitch structures (Santoni patent); 3 technical ways plus two colors on the ground yarn; 3 technical ways plus one color on the ground yarn and pattern with floated yarn; 3 technical ways plus sharp pattern.

Possibility of inlaid knit work on all feed.

#### YARN FEEDERS

N° 1 SFE MEMMINGER per feed - N.1 ULTRAFEEDER for elastic welt on the 1st feed; 4 LGL Santoni ECOPOWER feeders with serial connection enabling visualization on board display of yarn absorption.

Optional: BTRS ULTRAFEEDER; MEMMINGER SFE - ELAN; LGL Santoni ECOPOWER and/or Santoni ECOPOWER ATTIVO; Dinema YOYO.

#### YARN SENSORS

n°10 optical serial sensors per each feed (40 in total).

#### CREEL

Complete back creel.

Option: creel with pneumatic threading or closed creel for cotton yarn.

#### LUBRICATION

Pneumatic pump with oil recycle.

#### CYLINDER ROTATION

Brushless motor and electronic handwheel for manual control.

## TECHNICAL FEATURES

### ● ELECTRONIC CONTROLLER

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

### ● 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 from 14" to 16": fans 4,1 kW (at 400V / 50Hz) or 5,1 kW (at 220V / 60Hz); motor 2,2 kW.

Absorbed power from 17" to 20": fans 4,4 kW (at 400V / 50Hz) or 5,6 kW (at 220V / 60Hz); motor 2,2 kW.

Compressed air: 50 liters/min at 6 bar.

### ● WEIGHT

Approx. Kg 600 / 750.

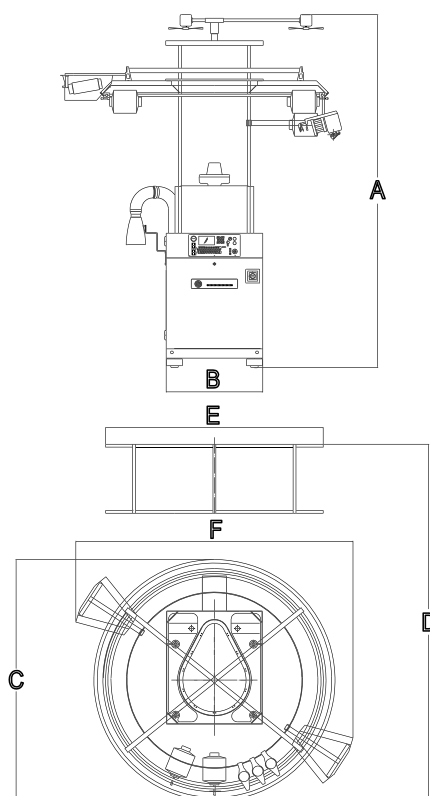
### ● PRODUCTION

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



- A 3080 mm
- B 740 / 840 mm
- C 2100 mm
- D 3100 mm
- E 2050 mm
- F 2410 mm

### 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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