

# SEAMLESS TECHNOLOGY

ELECTRONIC SEAMLESSWEAR KNITTING MACHINE

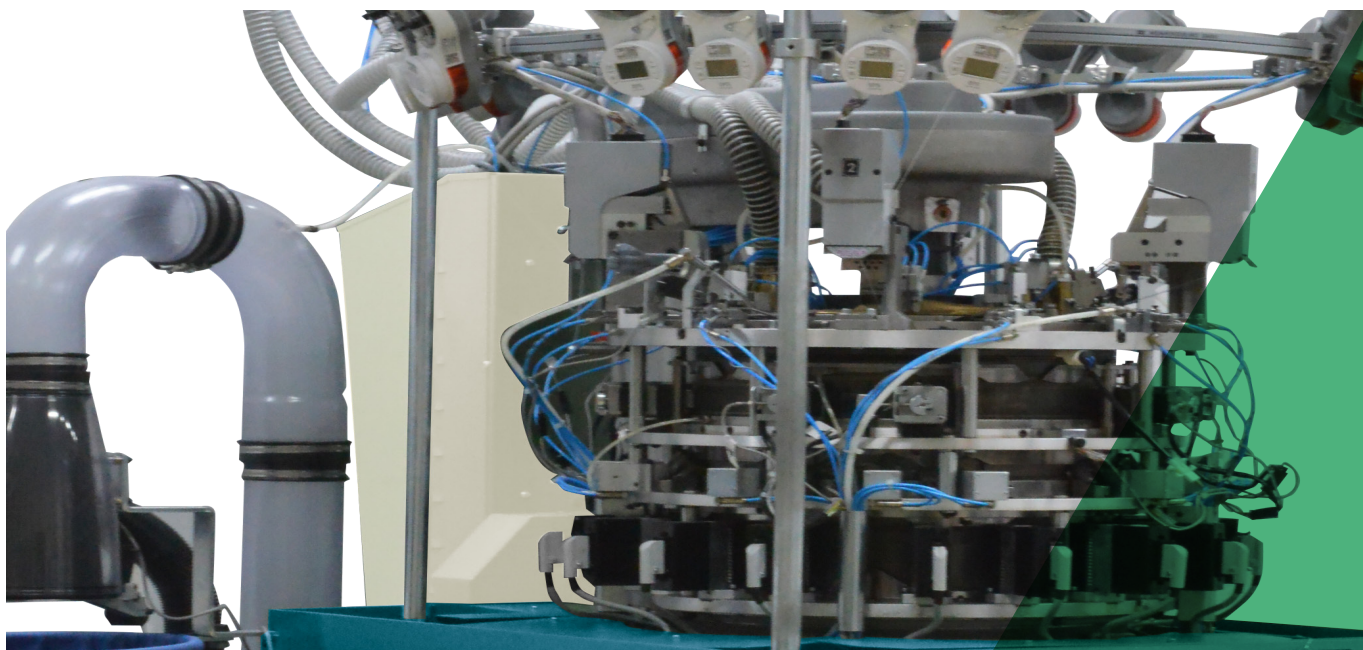
SM4-TL2

SINGLE JERSEY

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4 feeds single jersey electronic circular machine with reciprocal movement, 2 selection points per feed and per rotation sense. It knits single seamless garments for underwear, outerwear, swimwear, sportswear, sanitary wear. System patented by SANTONI that allows the realization on 4 feeds of patterns having a high definition and sharpness of the color.

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## SM4-TL2 SINGLE JERSEY

- **DIAMETERS**  
13" - 14" - 15" - 16" - 17"
- **MACHINE GAUGE**  
Npi 16 - 18 - 20 - 22 - 24 - 26 - 28 - 32 - 40.
- **NEEDLES GAUGE**  
From gg 48 to gg 80.
- **NUMBER OF FEEDS**  
4 for any diameter.
- **MAXIMUM SPEED**  
For diameters from 13" to 17" speed factor from 1360 (13" 105 rpm) in one way movement.  
For diameters from 13" to 17" speed factor from 1170 (13" 90 rpm) in reciprocation movement.
- **TYPE OF SELECTION**  
n° 4 actuators with n° 16 levels on each feed (two for both rotation sense).
- **STRIPPING YARNFINGERS**  
Each feed 7 yarnfingers at multipositions (Santoni patent).
- **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. Stitch formation inner tube Ø 150. Garment transfer tube Ø 100 mm. Air limiting valve with electronic incremental programming.
- **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 both cm or inches.
- **SINKER CUP**  
Closed track cam circuit with spring-moved presses for stitch compensation.
- **MAIN KNITTING POSSIBILITIES**  
Single or double welt carried on with jacks in several selection, elastic yarn can be knitted, floated or inlaid.  
Involving 4 feeds on the same course: patterns and/or place reinforcements eliminating cut yarns on the inner side of the garment (typical intarsia), all the already known basic knitting structures as floated, 3 technical ways, sharp pattern, etc.
- **YARN FEEDERS**  
N° 1 SFE Memminger on each feed; n° 1 EFS800 MEMMINGER-IRO with serial connection for elastic welt on 1st feed; n° 2 EFS 920 plus n° 4 feeders for yarn recovery "SMM" per feed.  
Optional: MEMMINGER EFS 800, EFS 920 SFE.
- **YARN SENSORS**  
n°7 optical serial sensors per each feed (28 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 10 MB.
- **MACHINE KEYBOARD**  
Color Keyboard with monochromatic display backlit.

➤ **PROGRAMMING**

Graphic software S.I.S. (Santoni Intarsia System). The programs can be transferred to the machine by net, by cable directly from the PC, by UBS key or by FDU4.

➤ **CONSUMPTION**

Absorbed power from 13" to 16": fans 4,1 kW (at 400V / 50Hz) or 5,1 kW (at 220V / 60Hz); motor 4,5 Kw.

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

Compressed air: 50 Lt/min at 6 bar.

➤ **WEIGHT**

Approx. Kg 600 / 750.

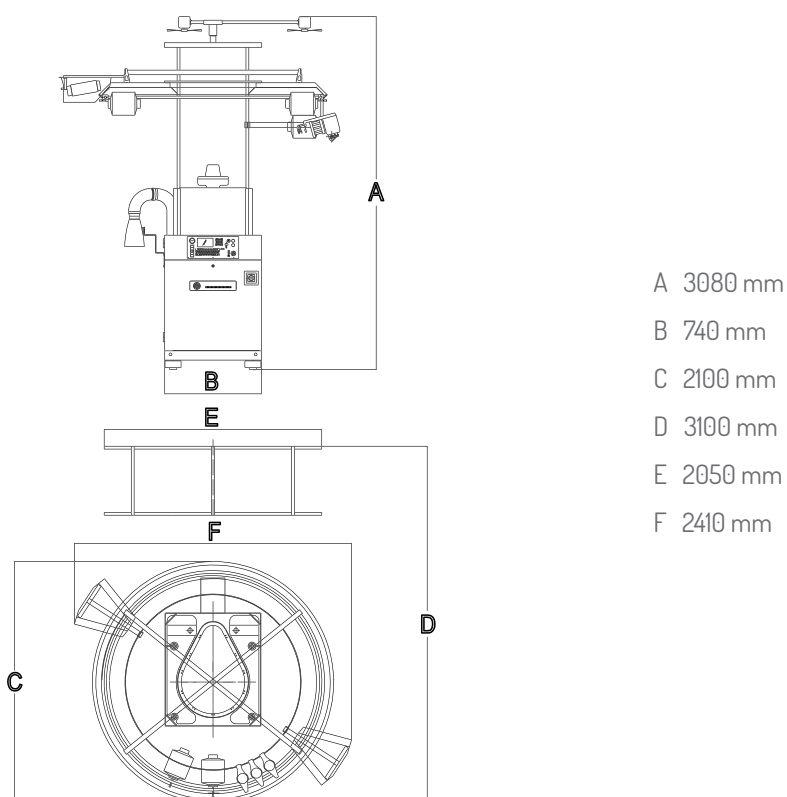
➤ **PRODUCTION**

SEAMLESS-WEAR, UNDERWEAR, OUTERWEAR, SWIMWEAR, SPORTSWEAR (possibility to use a wide range of yarns including bare and covered elastomer).

➤ **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.

Santoni is recommending needles from  
**GROZ-BECKERT®**



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