

# SEAMLESS TECHNOLOGY

ELECTRONIC SEAMLESSWEAR KNITTING MACHINE

SM8-TOP4J

SINGLE JERSEY

(X2Q ELECTRONICS)

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## SM8-TOP4J SINGLE JERSEY

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Single Jersey electronical circular machine with 8 feeds, with 4 points of selection needle by needle on each feed. For the production of single seamless garments for underwear, outerwear, beachwear, sportswear, sanitarywear with possibility of different stitch structures and colors on the same course. Terry possibility on request.

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# SEAMLESS TECHNOLOGY

## SM8-TOP4J SINGLE JERSEY

### DIAMETERS

12" - 13" - 14" - 15" - 16" - 17" - 18" - 19" - 20" - 21" - 22"

### MACHINE GAUGE

Npi 16 - 18 - 20 - 22 - 24 - 26 - 28 - 32 - 40

### NEEDLES GAUGE

From gg 48 to gg 80.

### NUMBER OF FEEDS

8 for any diameter.

### MAXIMUM SPEED

Diam. 12" speed factor 1200 (12" max speed 100 rpm), gauge E40 speed factor 1020 (12" max speed 85rpm).

Diam. 13" to 22" speedfactor 1300 (13" max speed 100 rpm), gauge E40 speed factor 1105 (13" max speed 85rpm).

### TYPE OF SELECTION

16 level actuators n° 4 per feed.

### STRIPPING YARNFINGERS

6 yarnfinger each feed (with yarnfinger 1 and 2 at 3 positions, the 3rd at 2 positions, the 4th and 5th at 4 positions and the 6th at 6 positions), plus 4 color yarnfingers (Santoni patent) .

### TRAPPER FOR BARE AND COVERED ELASTIC YARN

3 each feed.

### DIAL JACKS AND YARN CUTTER

Dial vertical movement, cutter saw release (Santoni patent), driven by step by step motor which allows the height variation of the cutter work.

### SUCTION SYSTEM

By 2 or 3 suction fans or central system. Take down tube Ø 150 mm. Ejection tube Ø 100 mm. Air limiting valve with electronic incremental programming.

(On request: rotating tube or antitwist kit with 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.

On board garment sizing, adjustable in both cms and inches.

### SINKER CUP

As per knitting system, free from cylinder and centered on the upper plate (Santoni patent).

On request: sinker caps for terry fabric.

### MAIN KNITTING POSSIBILITIES

Single or double welt carried on with jacks, in several selections, with knitted, floated or laid-in elastic yarn.

8 feeds on the same course: 3 technical ways plus 2 colors on the ground, 3 technical ways plus 1 color on the ground yarn and floated pattern, 3 technical ways plus sharp pattern, 2 technical ways plus 3 colors on the ground, 2 technical ways plus 2 colors on the ground yarn and floated pattern, laid-in possibility on all feeds.

Optional: n° 4 movable stitch cams to make 4 feed knitting possibilities with 8 selection points for each feed (3 technical ways plus 5 colors on the ground, 3 technical ways plus 4 colors on the ground yarn and floated pattern, 2 technical ways plus 6 colors on the ground, 2 technical ways plus 5 colors on the ground yarn and floated pattern).

### YARN FEEDERS

n° 10 Santoni BODYMAP (2 of which used for elastic welts) plus n° 8 feeders LGL SANTONI BODY with CANBUS serial connection enabling visualization on board display of yarn absorption.

Optional BTSR: Santoni ULTRAFEEDER2 (+UNICO2), Santoni HYPERFEEDER, ROLLING FEEDER.

Optional LGL: Santoni BODYMAP, Santoni BODY and/or BODY ATTIVO.

Optional DINEMA: PLUS.

Optional MEMMINGER: SFE.

### YARN SENSORS

SPYDER Dinema serial sensors of capacitive type.

(On request: 8 ISPY Dinema sensors of optical type).

➤ **CREEL**

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

➤ **LUBRICATION**

Progressive measuring pump with oil recicle and independent management of oil between needles/sinkers and selectors.

➤ **CYLINDER ROTATION**

Brushless motor and electronic handwheel for manual control.

➤ **ELECTRONIC CONTROLLER**

New DINEMA XQ ELECTRONIC with microprocessor power PC 400 Mhz, Flash 512 MB, Ram 512 MB, with 7" colour touch screen ( 800x480) and panel with USB connection.

➤ **MACHINE KEYBOARD**

Colour touch screen display.

➤ **PROGRAMMING**

Software Digraph-3 Plus including: Atlas, Photon, Galois, Quasar and converter or the new iPOLARIS pack , a powerful, up-to-date and user-friendly graphic interface.

The programs can be transferred to the machine by USB, FDU4 or by net.

➤ **CONSUMPTION**

Absorbed power from 12" 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 22": 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.

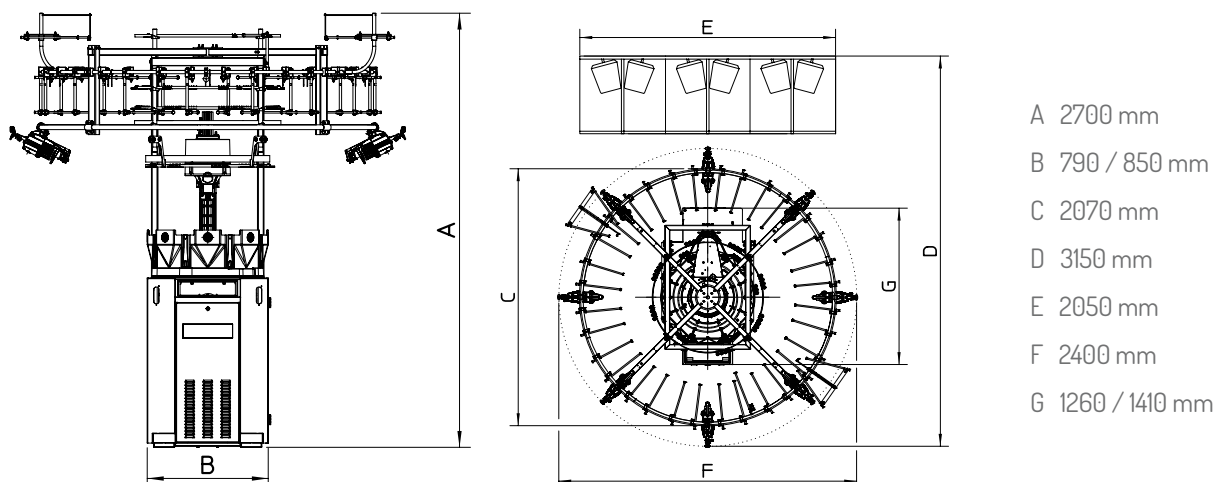
➤ **PRODUCTION**

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

➤ **NORMATIVE**

The machine meets the CE normative.

## 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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