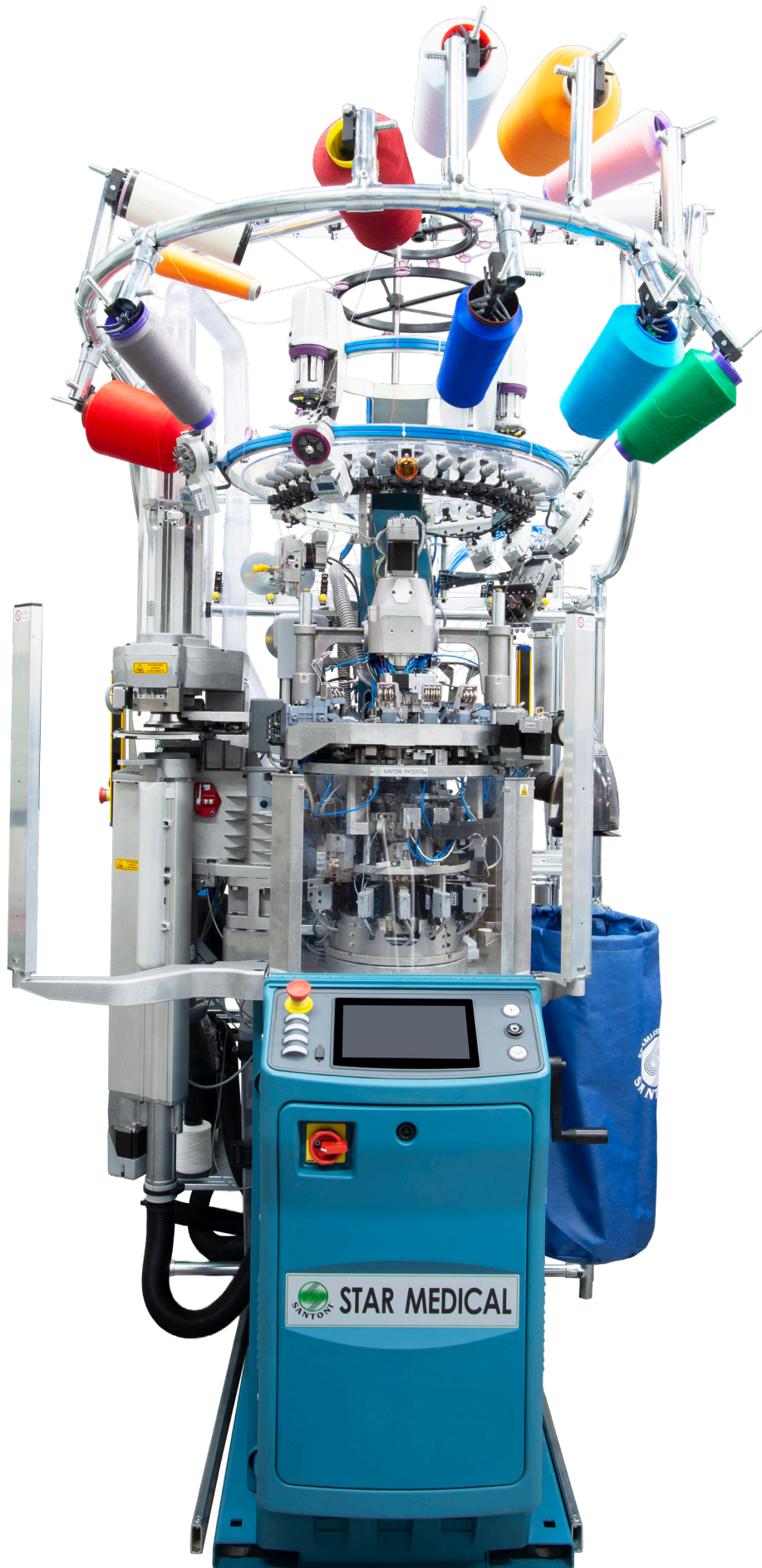


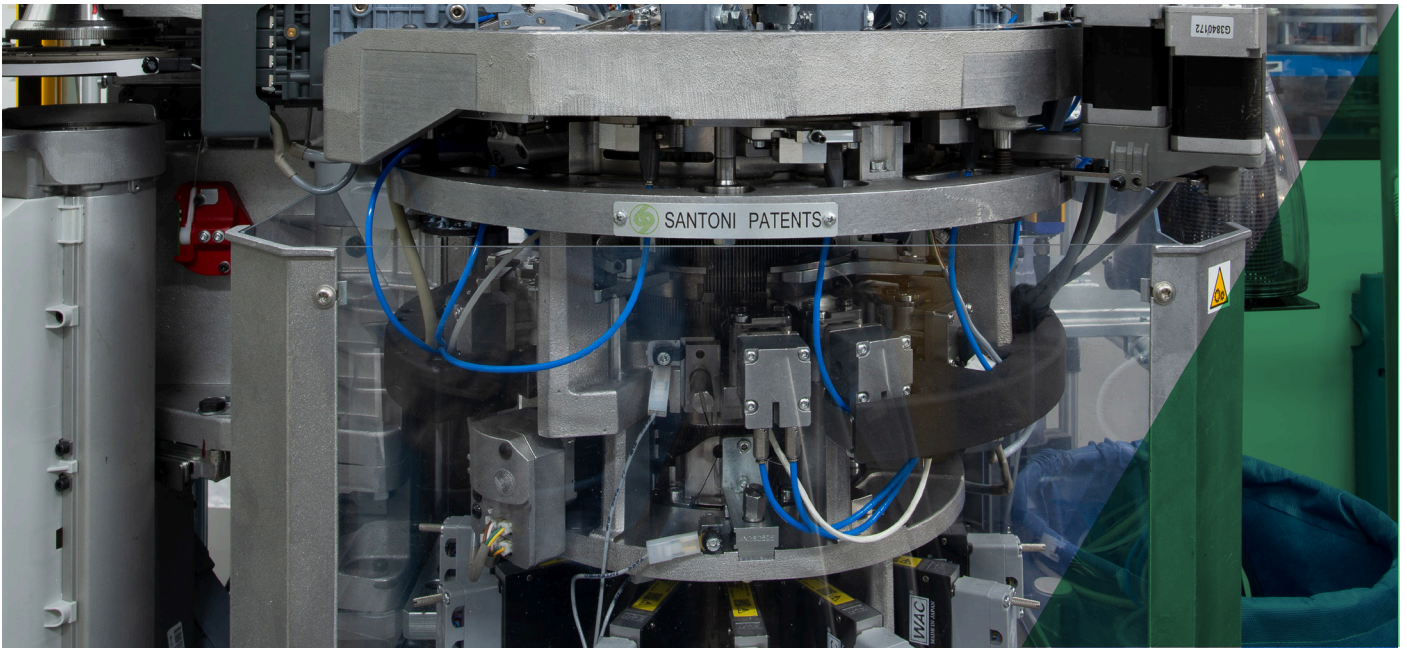
SOCKS

SINGLE CYLINDER WITH DIAL NEEDLES

STAR MEDICAL

STAR MEDICAL





STAR MEDICAL

Single-cylinder, two-feed machine with dial needles for the production of high-quality socks featuring patterns in 3 colors on feed 1 and 1 color on feed 2.

Thanks to its advanced technology, the STAR MEDICAL combines productivity and quality, while maintaining exceptional ease of use.

It is available in three diameters: 4", 4" 1/2, 5"

The machine is equipped with a coaxial torque motor with the cylinder holder. This solution eliminates the transmission system between the motor and the cylinder, reducing power consumption.

STAR MEDICAL

Ø - Cylinder diameter	NEEDLE GAUGE	NEEDLE THICKNESS	NUMBER OF NEEDLES	FABRIC TYPE
ø 4"	48	0,6 mm	200	SELECTIVE TERRY
	48	0,6 mm	200	PLAIN FABRIC
	54	0,5 mm	240	
ø 4"1/2	48	0,6 mm	220	SELECTIVE TERRY
	48	0,6 mm	220	PLAIN FABRIC
	54	0,5 mm	280	
ø 5"	48	0,6 mm	240	SELECTIVE TERRY
	48	0,6 mm	240	PLAIN FABRIC
	54	0,5 mm	320	

These data are indicative only. Different requests can be confirmed if possible

➤ **NUMBER OF FEEDS**

2 feeds.

➤ **MAXIMUM SPEED**

Maximum achievable speed depends on various factors such as yarns, knitting styles, lubricants, etc.

220 RPM unidirectional for diameter 4"

200 RPM unidirectional for diameter 4" 1/2

180 RPM unidirectional for diameter 5"

➤ **CYLINDER SELECTION SYSTEM**

n.13 (including 3 dedicated return-selection actuators)

➤ **YARNFINGERS**

8 on the first feed, 4 on the second feed, programmable in 4 working positions, 4 groups of 3 YFG + 2 YFG of feed 2 that can be used as color feeds for single-feed socks. 3 on feed 1 - 1 on feed 2.

➤ **ELASTOMER TRAPPERS**

2 stations (2 YFG feed 2 + 1 YFG feed 1)

➤ **TAKE-DOWN SYSTEM**

Suction take-down via fan or centralized suction system. Electronic incremental programming valve for suction control.

Anti-twist device available upon request.

➤ **STITCH FORMATION CAMS**

Cylinder stitch formation adjustment by means of independent step by step motors, allowing widening and narrowing of individual areas and/or course. Step by step motor for cylinder lifting purposes. Motorized timing adjustment (advance/retard) of the dial stitch cam. Motorized cams for elastic stitch formation. Size optimization directly on the machine through adjustment in centimetres or inches.

➤ **KNITTING POSSIBILITIES**

- True rib cuff on single feed with elastic yarn
- True rib cuff on two feeds with one or two elastic yarns
- 1:1, 3:1, 5:1 rib socks, etc., produced on one or two feeds
- Single-feed socks with 5-color pattern plus ground color (with or without rib)
- Single-feed socks with elastic yarn and 5-color pattern plus ground color (without rib)
- Single-feed socks with elastic yarn and 4-color pattern plus ground color (with rib)
- Two-feed socks with a 3-color pattern plus ground color on Feed 1 and a 1-color pattern plus ground color on Feed 2 (with or without rib)
- Two-feed socks with 2 elastic yarns and a 3-color pattern plus ground color on Feed 1 and a 1-color pattern plus ground color on Feed 2 (without rib)
- Two-feed socks with 2 elastic yarns and a 1-color pattern plus ground color on Feed 1 only (with rib)
- Two-feed socks with 1 elastic yarn on Feed 1 and a 1-color pattern plus ground color on Feed 1 and a 1-color pattern plus ground color on Feed 2 (with or without rib)
- Two-feed socks with 1 elastic yarn on Feed 2 and a 3-color pattern plus ground color on Feed 1 and a 1-color pattern plus ground color on Feed 2 (without rib)
- Two-feed socks with 1 elastic yarn on Feed 2 and a 3-color pattern plus ground color on Feed 1 only (with rib)
- Vanisé terry or standard terry socks (programmable)
- Programmable color reinforcement
- Pattern yarn binding between any yarn carriers
- Patterned terry knitting also on heel and toe
- Possibility of float-pattern knitting on heel and toe
- 3D knitting capability with a 360° angular limit
- Socks with gradual narrowing through programming

➤ **SINKER CAP**

Sinker cap for either plain knit or terry knit, both equipped with pneumatic controls for sinker pressure and angular positioning.

➤ **WELT FORMATION AND YARN CUTTING**

Equipped with a motorized welt lifter and a motorized yarn-cutting saw.

➤ **YARN FEEDING**

4-position heel yarn recovery device (6-position version available on request)

Dinema PLUS feeders; Dinema PLUS XL; Santoni BODYLITE; Santoni BODYLITE ATTIVO; Santoni BODYMAP; BTR Ultrafeeder2.

➤ **YARN MONITORING SENSORS**

ISPY by Dinema optical-capacitive serial yarn sensors.

➤ **CREEL**

Tubular drop creel.

➤ **LUBRICATION**

Pneumatically controlled lubrication unit with oil recirculation.

➤ **MACHINE MOVEMENT**

Coaxial torque motor with the cylinder holder.

➤ **ELECTRONIC CONTROLLER**

Integrated Dinema electronics with quad-core board for serial control of all outputs, protected against short circuits.

Color graphic display with capacitive touch screen.

➤ **SBYS (STITCH BY STITCH TOE CLOSING DEVICE)**

The machine can be equipped with the Santoni SbyS toe-closing device, utilizing the “true linking” technique.

➤ **PROGRAMMING**

Pattern and article creation and management are carried out through the Dinema Digraph 3Plus software package.

➤ **DATA COLLECTION**

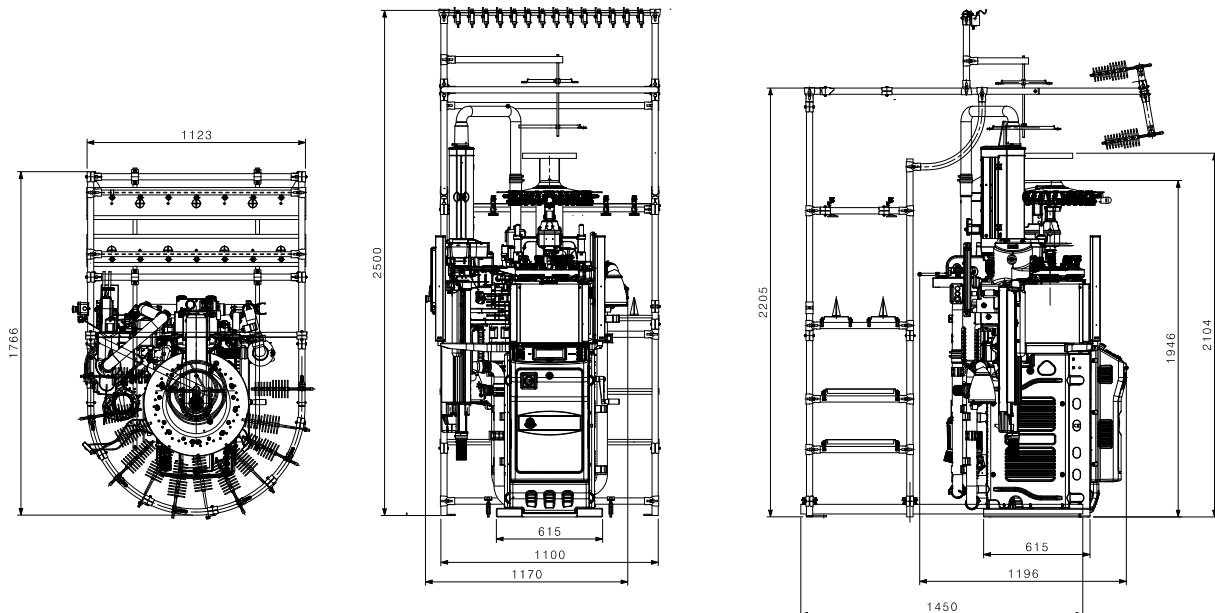
Dinema “NAUTILUS” system (optional).

Dinema “Arcadia” system (optional).

➤ **NORMATIVE**

The machine complies with CE regulations.

TECHNICAL DRAWING AND DIMENSIONS



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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