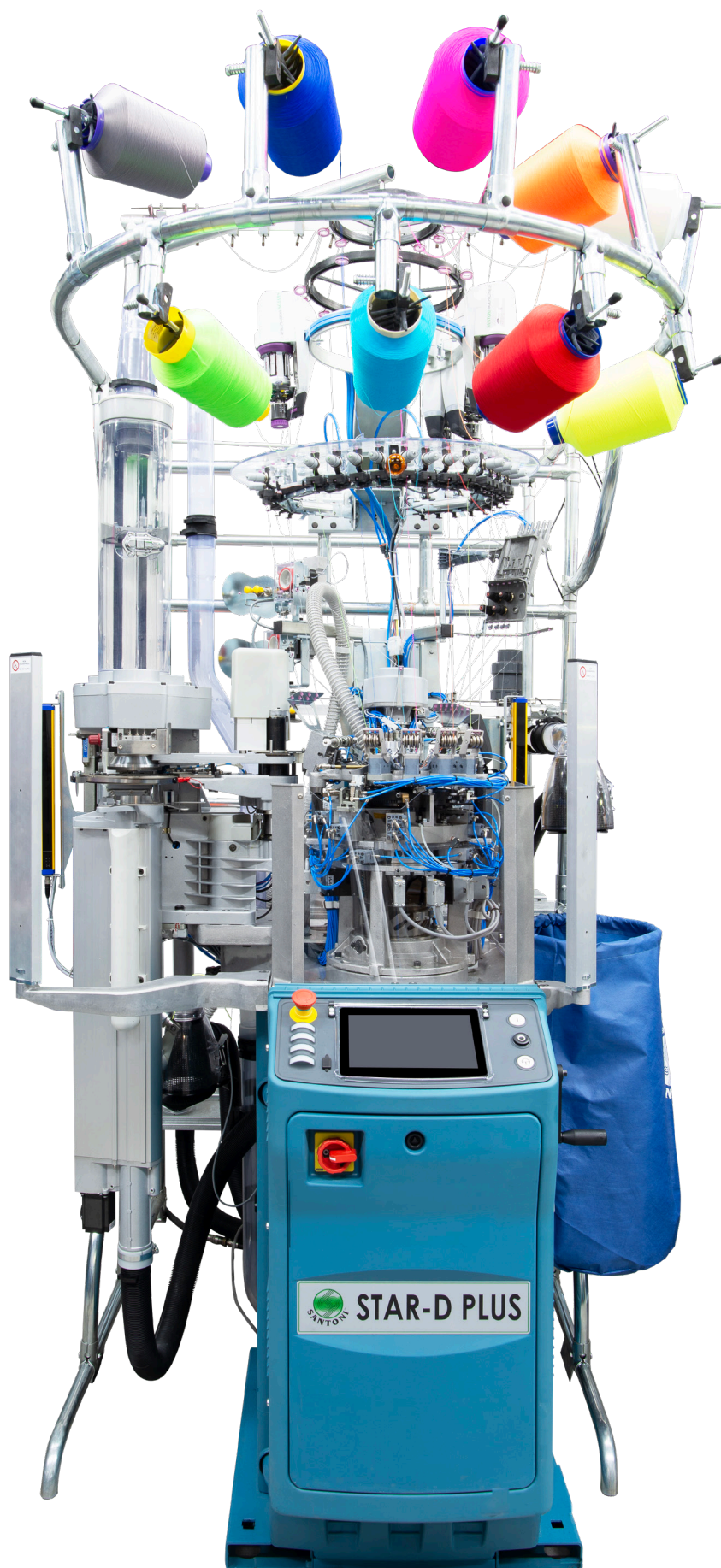


SOCKS

SINGLE CYLINDER WITH DIAL NEEDLES

STAR-D PLUS

STAR-D PLUS





STAR-D PLUS

Single-cylinder, two-feed machine with dial needles for the production of high-quality socks featuring patterns in 4 colors (with diameters 3½", 4", and 4½") and 3 colors (with diameter 5").

Thanks to its advanced technology The STAR-D PLUS combines productivity and quality, while maintaining exceptional ease of use.

It is available in four diameters: 3½", 4", 4½", 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.

Ø - Cylinder diameter	NEEDLE GAUGE	NEEDLE THICKNESS	NUMBER OF NEEDLES	FABRIC TYPE
ø 4"	18	1 mm	72	LOW VANISE TERRY (h=4,4mm) OR HIGH VANISE TERRY (h=4,9mm) 0 LOW STANDARD TERRY (h=4,4mm) 0 HIGH STANDARD TERRY (h=4,9mm)
			84	
			96	
			108	
			112	
	24	0,85 mm	112	
			120	
			128	
			132	
			144	
	36	0,7 mm	128	
			132	
			144	
			156	
			168	
176				
48	0,6 mm	200	LOW VANISE TERRY (h=2,9mm)	
36	0,7 mm	168	PLAIN FABRIC	
		176		
48	0,6 mm	200		
ø 4 1/2"	12	1,24 mm	80	VANISE TERRY OR STANDARD TERRY
			84	
			88	
			96	
			104	
			108	
			112	
	18	1 mm	80	
			84	
			88	
			96	
			104	
			108	
			112	
			120	
			128	
			132	
	24	0,85 mm	104	
			108	
			112	
			120	
			128	
			132	
			144	
			156	
			168	

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

Ø - Cylinder diameter	NEEDLE GAUGE	NEEDLE THICKNESS	NUMBER OF NEEDLES	FABRIC TYPE
ø 5"	10	1,5 mm	60	VANISE TERRY OR STANDARD TERRY
			64	
			72	
			80	
			84	
			88	
			92	
			96	
	12	1,24 mm	80	
			84	
			88	
			92	
			96	
			104	
			108	
			112	
			120	

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.

250 RPM unidirectional for diameter 3" 1/2

240 RPM unidirectional for diameter 4"

220 RPM unidirectional for diameter 4" 1/2

200 RPM unidirectional for diameter 5"

➤ CYLINDER SELECTION SYSTEM

n.6 actuators with 8 levels for diameter 3" 1/2, 4" e 4" 1/2.

n.5 actuators with 8 levels for diameter per 5"

➤ YARNFINGERS

8 on the first feed, 4 on the second feed, programmable in 2 working positions, 3 for each of the 4 color feeds (ø 3" 1/2, 4" e 4" 1/2) and 3 for each of the 3 color feeds (ø 5").

➤ ELASTOMER TRAPPERS

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

➤ 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.

Size optimization directly on the machine through adjustment in centimetres or inches.

➤ KNITTING POSSIBILITIES

- Socks with true rib cuff on one feed with elastic yarn

- Socks with true rib cuff on two feeds with one elastic yarn

- Socks with double welt cuff

- One-feed socks with 4-color pattern + ground color (3 1/2", 4", 4 1/2") / 3-color pattern + ground color (5"), with or without rib

- One-feed socks with elastic yarn and 4-color pattern + ground color (3 1/2", 4", 4 1/2") / 3-color pattern + ground color (5"), with or without rib

- Two-feed socks with 4-color pattern + ground color (3 1/2", 4", 4 1/2") / 3-color pattern + ground color (5") on Feed 1 only, with or without rib

- Two-feed socks with 2 elastic yarns and 3-color pattern + ground color (3 1/2", 4", 4 1/2") / 2-color pattern + ground color (5") on Feed 1 only, without rib

- Two-feed socks with 1 elastic yarn and 3-color pattern + ground color (3 1/2", 4", 4 1/2") / 2-color pattern + ground color (5") on Feed 1 only, with rib

- Vanisé terry or standard terry socks (with sinker replacement)

- Programmable color reinforcement

- Pattern yarn binding (only YFG 4 with YFG 1)

- 3D knitting capability with a maximum angular limit of 244°

- 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 (fixed on 4 1/2" and 5" models) and angular positioning.

➤ 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; B TSR 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).

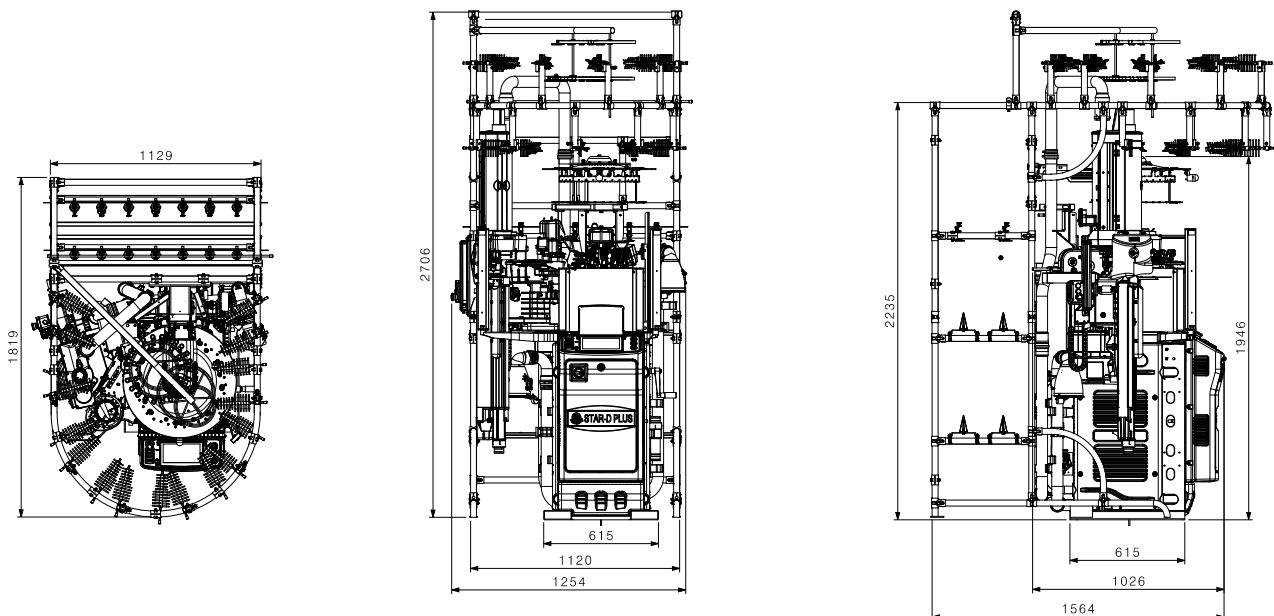
➤ **PRODUCTION**

True rib elastic welt • Double welt with the possibility of inserting 2 elastic yarns on 2 feeds • Ribbed socks with 1:1 welt and possibility to change to 3:1, 5:1, etc. in leg and foot areas • Socks with 4-color pattern plus background color on $\varnothing 3" 1/2, 4", 4" 1/2$ and 3-color patterns on $\varnothing 5"$, in plain fabric, terry or jacquard • 1:1 jacquard socks • Rib jacquard socks • Vanisé or standard terry socks • Reinforcement on 2 feeds plus heel and toe • Multicolor striped socks • Tuck stitch fabric • Openwork stitch imitation • Links stitch imitation

➤ **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.



SANTONI SPA

Via Carlo Fenzi, 14 - 25135 Brescia - Italy
Tel. +39 030 37671 Fax +39 030 3767400
P.IVA e CF: IT 00273280172
info.santoni@santoni.com - www.santoni.com