

SOCKS

SINGLE CYLINDER WITH DIAL NEEDLES

STAR-S

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Single-cylinder machine with one feed with needles in the dial, for the production of high-quality socks in true rib, five-color patterns, knit or laid in elastic and sculptured terry (on request). Heel and toe with reciprocating movement, with variable and three-dimensional effects obtainable without the aid of pickers.

The knitting head of the machine is equipped with cams and a Santoni patent special chain system which allows preselected needles to be driven to the stitch cam for knitting. On request: Automatic toe-closing by Lonati SbyS device, which uses the technique of "true linking", whose advantages are well known. The socks are of superior quality in terms of finishing, comfort, durability, compared to that produced with traditional methods.

STAR-S

MACHINE GAUGE															
∅ - Cylinder diameter	7	7½	8	8½	9	9½	10	10½	11	11½	12	12½	13	13½	14
3"1/2	80			96		108	108		120		132		144		
	Needle gauge gg 24 (thickness 0,85 mm)						Needle gauge gg 36 (thickness 0,70 mm)								
3"3/4					108	112	120	128	132		144		156		168
						Needle gauge gg 24(thickness 0,85 mm)				Needle gauge gg 36 (thickness 0,70 mm)					
4"					112	120	128	132		144		156		168	176
						Needle gauge gg 24(thickness 0,85 mm)				Needle gauge gg 36 (thickness 0,70 mm)					

MACHINE GAUGE															
∅ - Cylinder diameter	14½	15	15½	16	16½	17	17½	18	18½	19	19½	20	20½	21	22
3"1/2					184			200			216	220			240
					Needle gauge gg 48 (thickness 0,60 mm)				Needle gauge gg 54 (thickness 0,50 mm)						
3"3/4			184			200		216	220			240			
				Needle gauge gg 48 (thickness 0,60 mm)				Needle gauge gg 54 (thickness 0,50 mm)							
4"	184			200		216	220			240					
	Needle gauge gg 48 (thickness 0,60 mm)				Needle gauge gg 54 (thickness 0,50 mm)										

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

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➤ NUMBER OF FEEDS

1 feed.

➤ MAX. SPEED

250 RPM In uni directional way (the possible max speed depends on various factors as; yarn, type of knitting, lubricants etc...).

➤ CYLINDER SELECTION

N. 11 actuators at 8 levels.

➤ SINKER CAP SELECTION

N.1 actuators at 6 levels for the terry sinker selection (on request).

➤ YARNFINGERS STATION

N.8 multifunction yarnfingers on main feed ; n° 2 yarnfingers for eleastic feed; n° 3 yarnfingers on each 5 colour feeds.

MOTORIZED DIAL LIFT UP

➤ Vertical movemnt dial lift up device driven by step motor to change the knitting height.

YARN CUTTER SAW

➤ Yarn cutter saw driven by a step motor with mechanical stop and changeable rotation speed by programming.

TRAPPERS FOR BARE ANCD COVERED LYCRA

➤ N°2 for elastic yarn and n°2 per main feed.

SUCTION SYSTEM

➤ By suction fan or central system. Air limiting valve with electronic incremental programming. Antitwist on request.

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➤ STITCH FORMATION CAMS

Stitch formation adjustment by indipendent step motors , possibility of loop widening, reducing on single area and/or course, step motor to control cylinder lifting. On board garment sizing adjustable in cm or inches.

➤ MAIN KNITTING POSSIBILITIES

True rib welt or double welt with knit or laid in elastic ; 5 colors pattern plus ground, tuck stitch , open work design , floated yarn, retractable butt and sculptured terry.Reinforced sole. Heel and toe with reciprocating movemet with variable sizes. Three dimensional and color effects completely knitted without pickers in any area of the sock. True rib 1 x 1 - 3 x 1 5x1 etc..

➤ SINKER CAPS

Sinker cap for plain mesh or terry (normal or sandwich) both with motor for sinker caps pressure and angular position. The terry cap (on request) with actuator allowing the sculptured terry (normal or sandwich) in both rotation ways.

➤ YARN FEEDERS

4 positions heel yarn take-up device (on request at 6 positions); double elastic feeder unit (on request triple elastic feeder unit for diameters 3 3/4 e 4"); feeders: Dinema PLUS; Dinema PLUS XL ; Santoni BODYLITE; Santoni BODYLITE ATTIVO; LGL SPIN ; B TSR Ultrafeeder2

● **SENSORS FOR YARNS**

Optical serial sensors ISPY by Dinema.

● **YARN CREEL**

Direct feeding tubolar creel.

● **LUBRICATION**

Pneumatic unit with oil recycling.

● **MACHINE MOVEMENT**

Coaxila Torque motor with cylinder shaft.

● **ELECTRONIC CONTROLLER**

Dinema integrated electronics with quad card for all protected by short circuit exits. Color graphic display with capacitive touch screen.

● **PROGRAMMING**

Patterns and items creation managed by Dinema software Digraph 3 Plus.

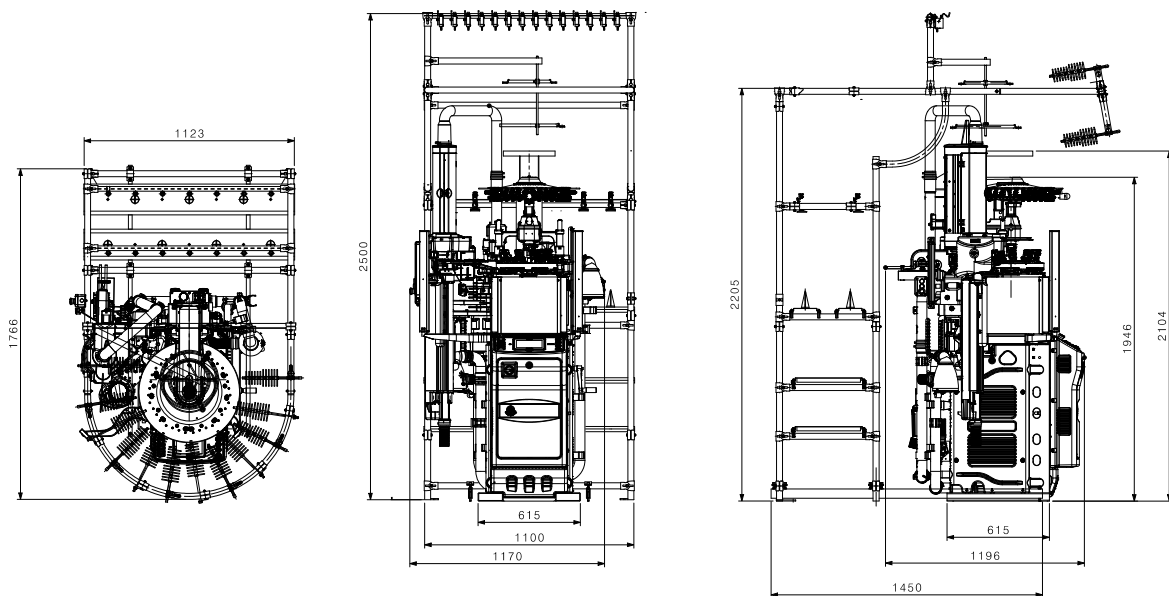
● **PRODUCTION**

Socks in true rib with 3 technical ways and colors, knit or laid in elastic , possibility of sculptured terry. Technical or medical items knitted with all yarns and bare or covered lycra.

● **NORMATIVE**

The machine meest the CE normatives.

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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