

DP3-CT DIGICONE® *preciflex*™ air texturing & air covering machine

Flexible Technology

The SSM DP3-CT is the first machine worldwide which is capable to run the 2 different processes air texturing and air covering. To swap the machine from one process to the other, only the air jet has to be exchanged.



Basic configuration

Basic Machine

Universal peg for two supply packages

Lost end detection for 2 ends of feed yarn and for the final yarn

Texturing box incl. yarn wetting device (jets and jet housings are not included)

Universal speed control for each feeding element

Dull chromium plated feeding elements

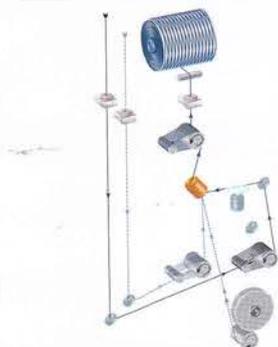
Electronic length measuring

SSM DIGICONE® *preciflex*™ take-up

Piping for compressed air, water, drain and sound box exhaust inside machine

Machine terminal with
– touch-screen display
– central input of the winding parameters per machine or per spindle
– storing of the recipes

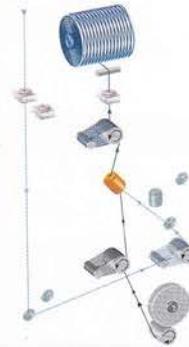
Air texturing process



The DP3-CT is designed for the air texturing process of fine to medium count continuous filament yarns (FDY/FOY) up to 400 dtex. The resulting highly innovative yarn creations are used for:

- knitted fabrics incl. seamless products
- light woven fabrics
- fancy yarn articles
- elastic articles with elastane components
- sports and fashion wear
- curtains

Air covering process



This process is for the production of different types of multicomponent yarns which are used in various textile and industrial applications, such as:

fashion / outdoor	elastic	inelastic
underwear / body	elastic	inelastic
sportswear	elastic	inelastic
swimwear	elastic	—
socks	elastic	inelastic
narrow fabrics	elastic	inelastic
bicomponent yarns, melanges	elastic	inelastic
industrial multi-component yarns	elastic	inelastic

Options

Automatic «doffing on the fly» system for continuous operation and constant texturing quality

Elastane feeding device (not in combination with slub yarn device)

Free standing creel for 4 ends and stand-by per position, yarn path underneath between creel and machine, creel positioned in front of machine, package diameter up to 440 mm

Oiling device

Slub yarn device for fancy yarns (not in combination with elastane feeding device)

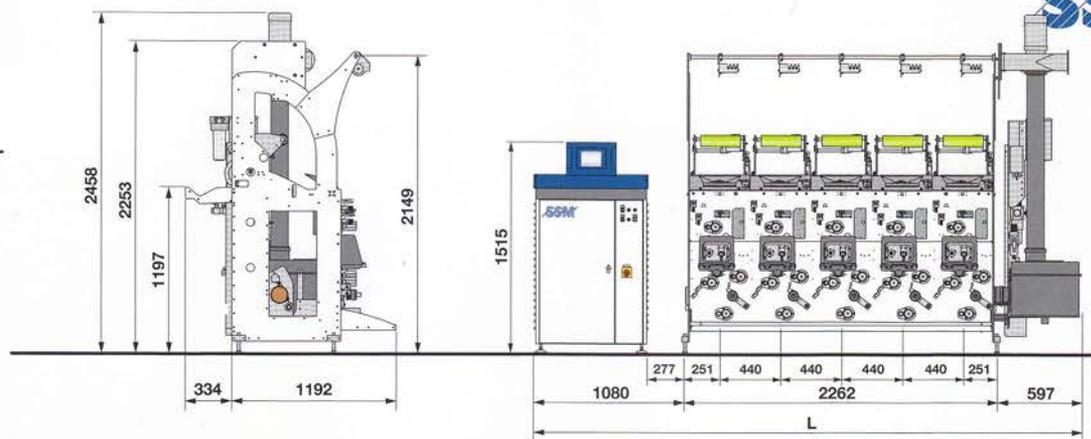
SSM DP3-CT

Air texturing & air covering machine

Air Texturing

Air Covering

Layout DP3-CT

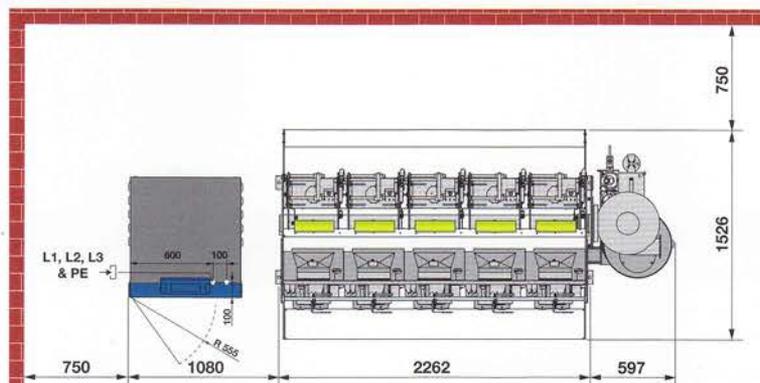


Number of spindles	5	10	15	20
Length [mm]	3939	6201	8463	10725
	25	30	35	40
	12987	15249	17511	19773

Weights net

Section 815 kg

Head stock 175 kg



Technical data DP3-CT

Types of winding	DIGICONE® or precision
Mechanical speed	up to 1200 m/min (process speed depending on process parameters)
Package shape	freely programmable
Take-up tubes	cylindrical tubes
Traverse length	100...250 mm infinitely variable
Take-up package diameter	up to 280 mm
Package weight	up to 8 kg
Supply package diameter – on side creel	1-ply: up to 300 mm; 2-ply or 1-ply + stand-by: up to 240 mm up to 4 ends and stand-by: up to 440 mm
Yarns	air texturing: FDY/FOY, Elastane / air covering: filament yarns, Elastane
Count	air texturing: up to 400 dtex / air covering: up to 3300 dtex
Layout	single sided
No. of spindles per section	5
No. of spindles min./max.	min. 5 / max. 40
Gauge	440 mm
Drive	individually controlled electronic single drives
Electrical power (basic power supply)	400 V, 50 cycles, 3 phases, loadable neutral, ground
Installed power	500 W per spindle
Power consumption	approx. 180–250 W per spindle
Water consumption	max. 4 liters per spindle and hour (only for texturing)
Compressed air / Process air requirement	Air installations is the responsibility of the machine user
– for machine operating	6 bar
– for air covering	up to 6 bar for the jet
– for air texturing	recommended compressor with a capacity of up to 20 m ³ per spindle and hour with air dryer, oil filter and air tank (3 m ³), pressure at machine: min. 12 bar
Process air consumption	depending on type of jet and process parameters, according indication of jet manufacturer

SSM DP3-CT

Air texturing & air covering machine

Air Texturing

Air Covering

SSM Schärer Schweiter Mettler AG

Neugasse 10

CH-8810 Horgen | Switzerland

Phone +41 44 718 33 11

Fax +41 44 718 34 51

E-Mail info@ssm.ch

Internet www.ssm.ch