

## DP3-C DIGICONE® *preciflex*™ air covering machine

### ■ Yarn design as machine concept

Infinitely adjustable process conditions as well as an up-to-date yarn path enable the optimisation of the closeness and stability of the intermingling of yarns, according to the specific requirements of the down-stream process.

The following features have been introduced with the DP3-C DIGICONE® *preciflex*™ machine concept:

- optimized yarn path and package build-up
- improved ability of drawing yarn
- extended range of application
- new machine terminal with graphic touchscreen display



### Basic machine

Universal peg for supply packages with reserve position

#### Thread monitor

One infinitely variable programmable over-feed roller positioned **before** the air jet, which controls the tension of the yarn components during the aircovering process

One infinitely variable programmable over-feed roller positioned **after** the air jet, to control the tension of the yarn during the winding process

*preciflex*™ yarn laying system

Individual speed control

Tube holders for specified type of tube

Pneumat. controlled back pressure system

Machine terminal with

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

Length measuring system

### Options

Elastane feeding device with step-less setting of the draft

Additional overfeed device for drafting elastan or aircovering an additional yarn component

Integrated two-ply or three-ply creeling with yarn sensor for each end

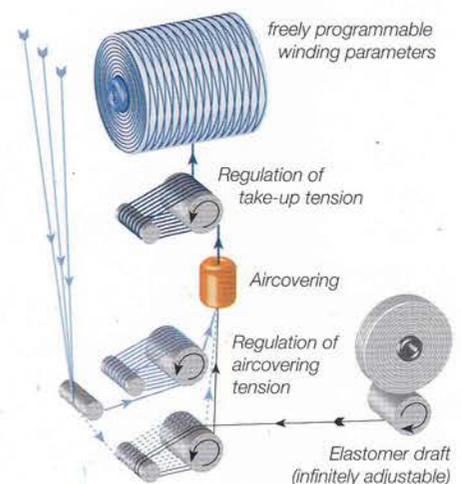
Separate creel with up to four-ply creeling with reserve

Kiss roll oiling device

Air Jet

Automatic full package changer «Doffing on the fly»

Yarn path modification for untextured / inelastic yarns (flat yarns)

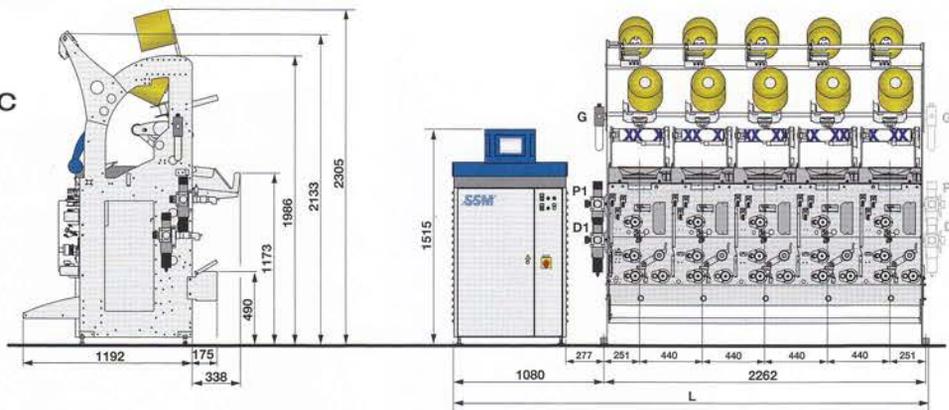


**SSM DP3-C**

Air covering machine

Air Covering

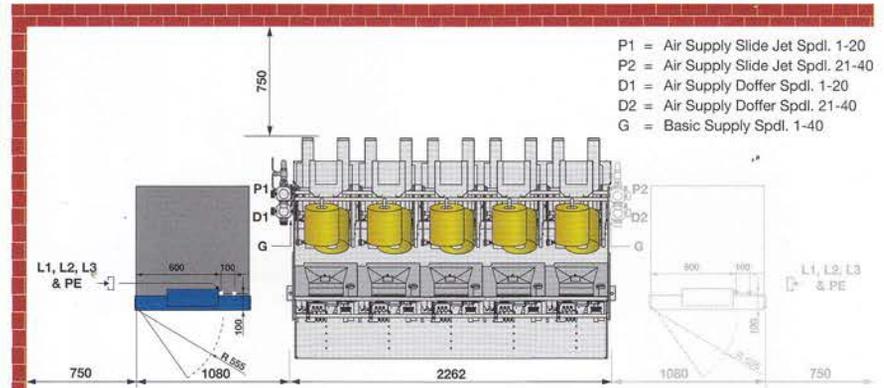
## Layout DP3-C



Number of spindles	5	10	15	20
Length [mm]	3365	5627	7889	10151
	25	30	35	40
	12413	14675	16937	19199

### Weights net

Section	815 kg
Head stock	175 kg



P1 = Air Supply Slide Jet Spdl. 1-20  
P2 = Air Supply Slide Jet Spdl. 21-40  
D1 = Air Supply Doffer Spdl. 1-20  
D2 = Air Supply Doffer Spdl. 21-40  
G = Basic Supply Spdl. 1-40

## Technical data DP3-C

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 10 kg
Supply package diameter – on side creel	1-ply: up to 300 mm; 2-ply or 1-ply + stand-by: up to 240 mm; 3-ply: up to 200 mm up to 4 ends and stand-by: up to 440 mm
Yarns	filament yarns, Elastane
Count	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
Compressed air / Process air requirement – for machine operating – for air covering	Air installations is the responsibility of the machine user 6 bar up to 10 bar for the jet
Process air consumption	depending on type of jet and process parameters, according indication of jet manufacturer

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