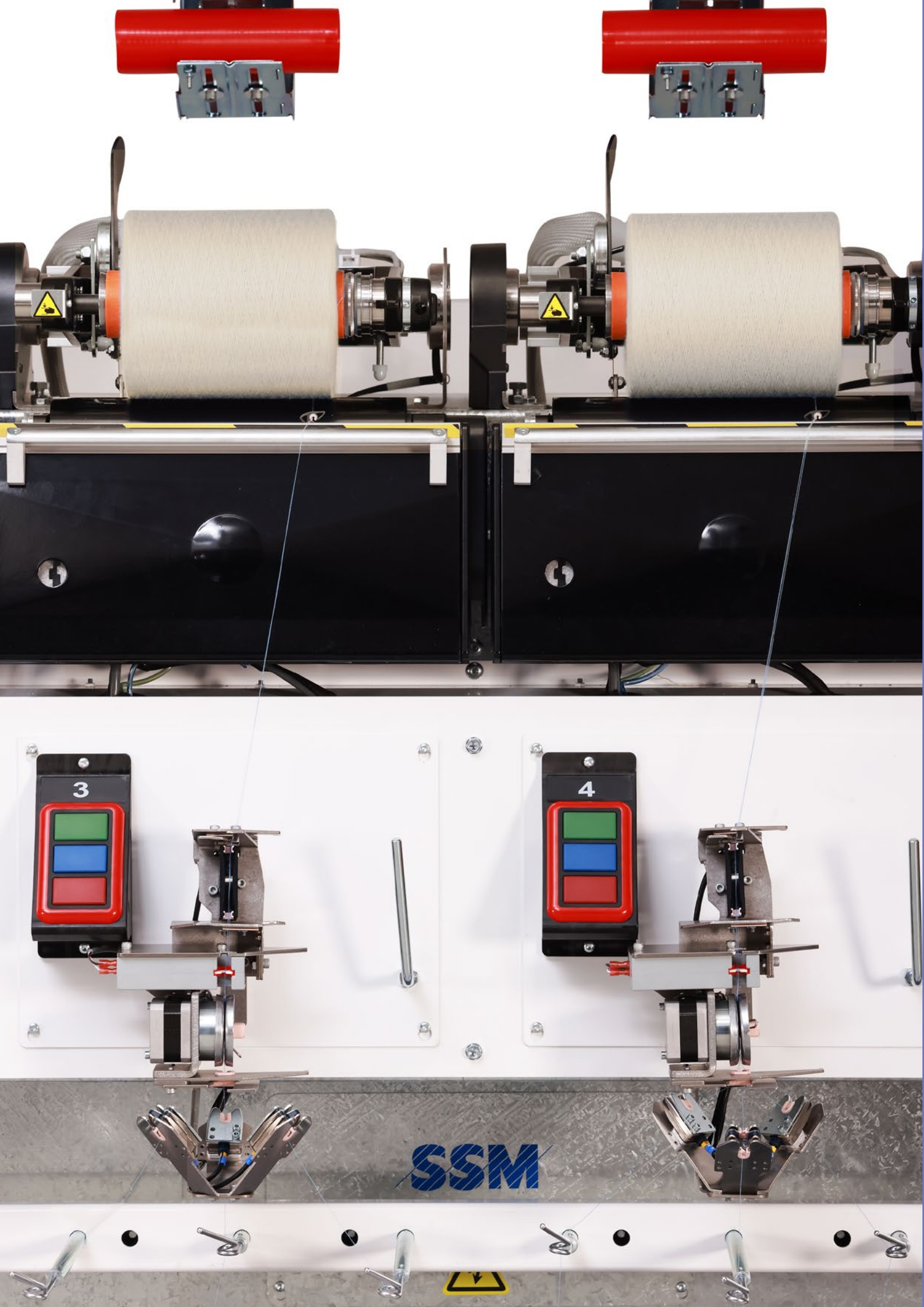
NEO-FD

Precision assembly winder

Leading technology for yarn processing and winding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SSM

OUTSTANDING
ADVANTAGES

Automatic doffer*
Limiting production interruptions to the minimum and maximizing productivity

Accurate length measuring
Reducing waste for an economical production

Density control – *digitens*
Online tension control system for reproducible package density

fastflex
The well-established thread laying system cuts maintenance and service costs to a minimum

Integrated 2 or 3*ply creel
With individual yarn detection sensor and single yarn pre-tensioner for each ply

Quick take-up change
From cylindrical to conical tubes in less than three minutes** per position

** available as an option*

***manually operated machines*

NEO-FD

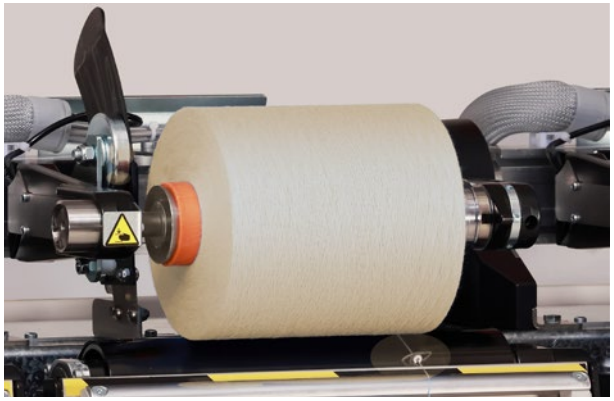
NEO-FD

Precision assembly winder

The SSM NEO-FD is the economic assembly-winding machine for high density, precision wound packages for twisting. The innovative design of the machine enables an optimized thread path and an overall simplification of the superior winder. This results in low maintenance and service costs. Thanks to *fastflex*, made-to-measure cross wound packages are possible.

fastflex – electronic yarn laying unit

fastflex gives the flexibility to produce made-to-measure cross-wound packages. Besides, the change of the traverse length, the spool size as well as the crossing ratio are done without efforts.

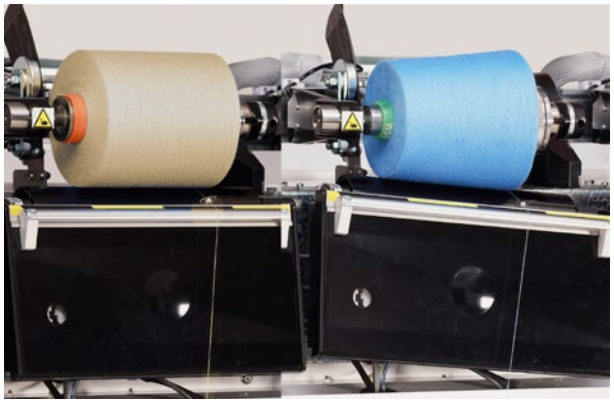


Integrated creel

An integrated 2-ply creel with an individual yarn detection sensor for each ply is included by default. An integrated 3-ply creel is available as an option.

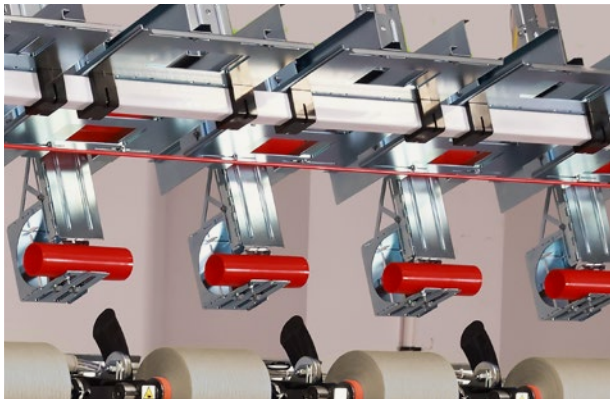
Quick take-up change

The change from cylindrical to conical tubes and back is simplified and done in less than three minutes per spindle for manually operated machines.



Automatic doffer*

With the automatic full package changer (doffer), the amount of spindles required is reduced to a minimum**. Combined with an electromechanical backpressure system, the best performance can be achieved.



** available as an option / ** compared with manually operated machines*

Density control – *digitens*

Constant yarn tension is essential for building an even and superb yarn package. With *digitens,* tension and density variations are reduced to an absolute minimum in a way that would otherwise not be achieved – within the package, from package to package and from lot to lot.

Accurate length measuring

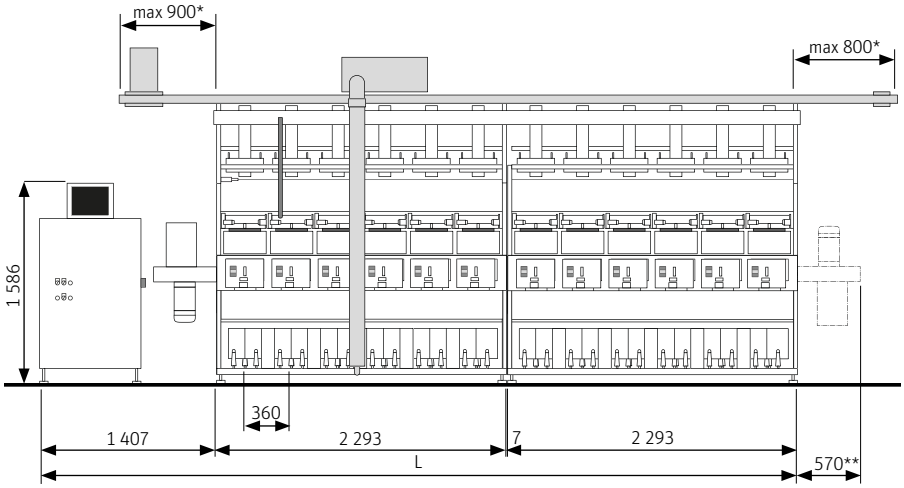
Thanks to the improved length measuring system, less waste and therefore a faster return on investment is given. This results in a positive enviromental impact (saving resources).

Basic machine
Machine terminal with – touch-screen display – central input of the winding parameters per spindle – storing of the recipes
Empty tube tray
Winding unit for specified tube/cone with electronically adjustable traverse length
Adjustable mechanical backpressure system
Electronic length measuring system per spindle
Diameter measuring system per spindle
fastflex thread laying system
Individual spindle control and drive
Dust protection system
Central yarn cutter
Electronic disc tension device controlled by yarn tension sensor
Mechanical slub catcher
Integrated 2-ply creel with an individual yarn detection sensor for each ply
Balloon separators

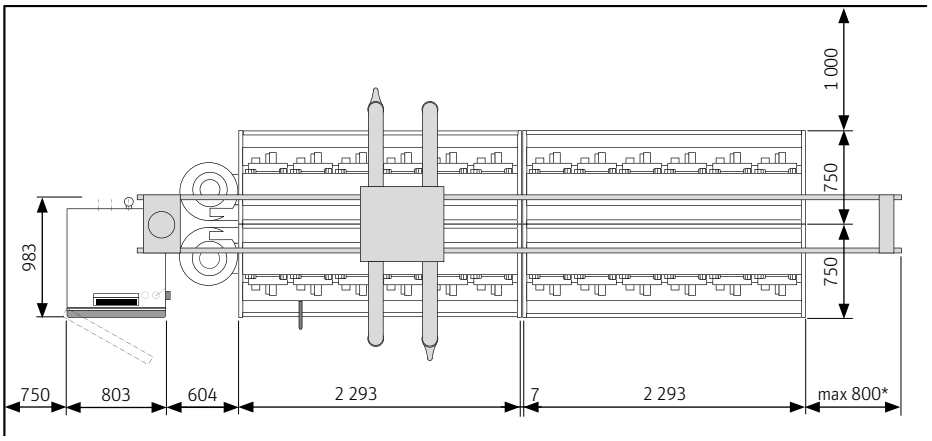
Options
Automatic full package changer *doffer*
Electromechanical backpressure system
Full package tray or conveyor belt
Integrated 3-ply creel with individual yarn detection sensor for each ply
Single yarn pre-tension device
digitens d disc tension device controlled by online tension sensor
Online density monitoring system, in combination with *digitens*
Traveling blower with suction system

NEO-FD

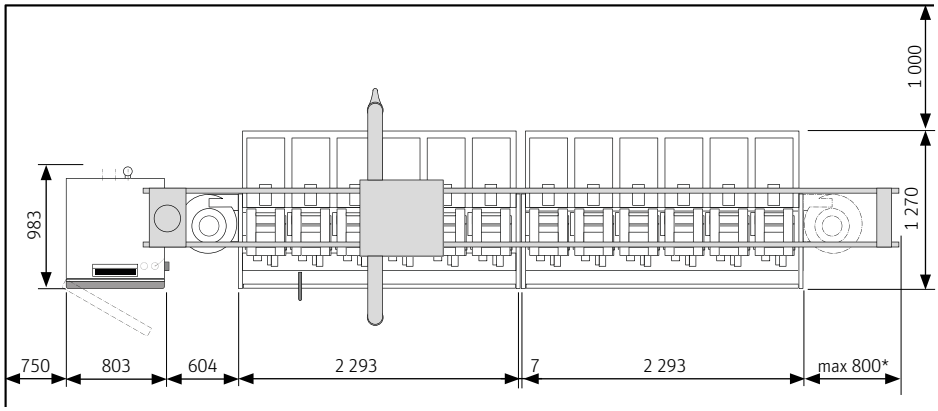
Layout



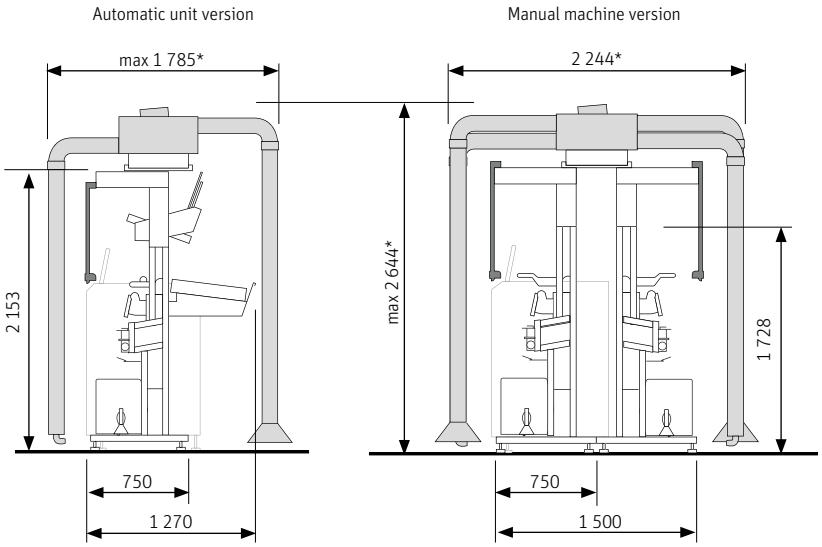
Automatic unit version



Manual machine version, double-sided



Automatic unit version, single sided



* depending on the type of traveling blower

** 66 to 96 positions single sided
with two dust protection blowers

Number of spindles	Length [mm]	
(in steps of 6/12)	single sided	double sided
6	3 700	–
12	6 000	3 700
24	10 600	6 000
36	15 200	8 300
48	19 800	10 600
60	24 400	12 900
84	34 170**	17 500
96	38 770**	19 800
108	–	22 100
120	–	24 400

Weight	net
Section	420 kg
Head stock	325 kg

Technical data NEO-FD	
Type of winding	DIGICONE 2 or precision
Mechanical speed	up to 1 500 m/min (process speed depending on process parameters)
Package shape	freely programmable
Traverse length	25 – 210 mm electronically adjustable
Take-up package diameter	up to 250 mm
Package weight	up to 5 kg
Supply package diameter	2 plies up to 240 mm / 3 plies up to 220 mm (with balloon separators)
Yarns	staple yarns, and textured filaments yarns
Yarn count range	Ne 3 – 80 / Nm 5 – 135 / 80 – 2 000 dtex (other yarn counts on request)
Take-up tubes	cylindrical or cones up to 5° 57' max. length 230 mm, min. base diameter 38 mm (smaller diameter upon request)
Layout	single or double sided
Number of spindles per section	6 (single sided) and 12 (double sided)
Number of spindles min./max.	6 / 96 (single sided) and 12 / 120 (double sided, 2 × 60 back to back)
Gauge	360 mm
Drive	individual
Installed power	approximately 200 W per spindle
Power consumption	from 25 to 100 W per spindle (depending on winding parameters/options)
Blower (installed power)	up to 2 200 W (depending on blower type and manufacturer)
Compressed air	7 bar (only required for machines with automatic doffer / pneumatic bracket opener)

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