

Assembly Winding
NEO-BD



NEO-BD

Precision assembly winder



Leading technology for yarn
processing and winding



OUTSTANDING

ADVANTAGES

Counter-rotating blades

which has established itself as the most yarn-friendly system

Small environmental impact

low energy consumption

preciforce – online backpressure system

for consistent package densities

digitens

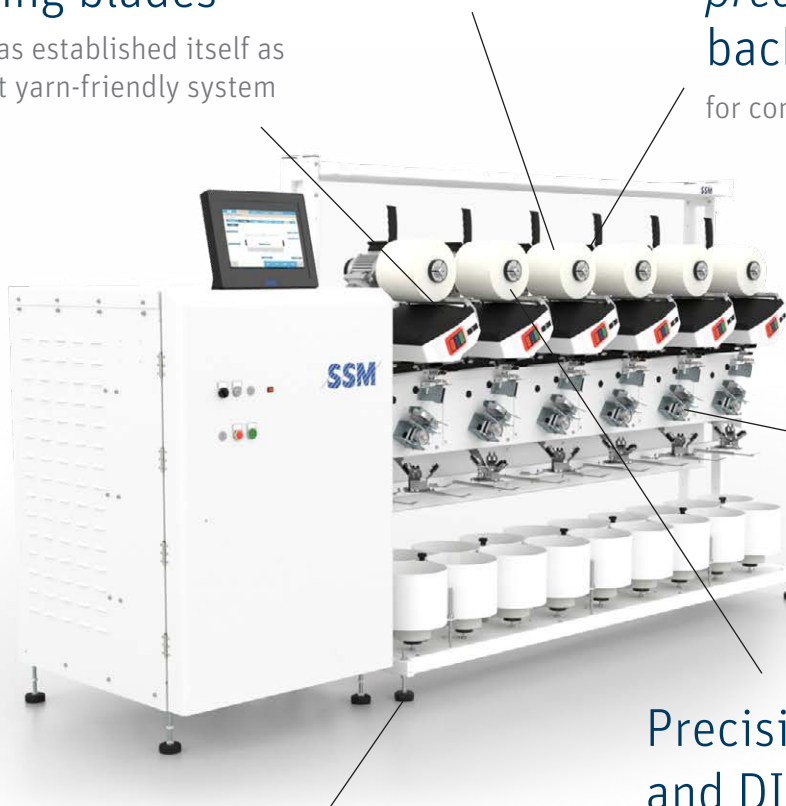
online tension control system for reproducible package density and best twisting results

Precision winding and DIGICONE2

for highest package densities and longest knot-free lengths

Accurate length measuring

reducing the machine footprint and building costs



NEO-BD

NEO-BD

Precision assembly winder

Only a quick response to market trends in combination with high cost-efficiency enables yarn twisters to be successful with competitive advantages. The NEO-BD offers clear benefits to assembly winding of staple yarns.

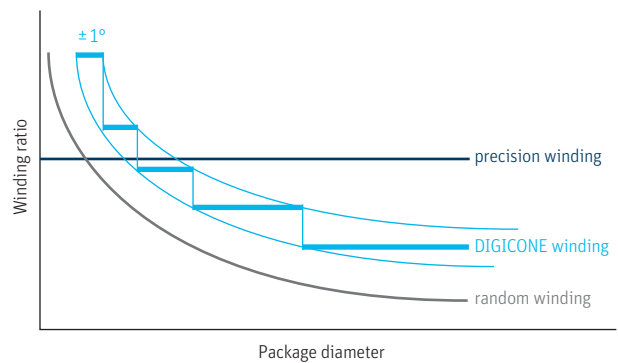
preciforce – backpressure system

First system worldwide to constantly regulate the back-pressure force. Enables an unique, gentle way to actively regulate the bobbins density with an accuracy of down to ± 1 g/l (depending on winding parameters).



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.



Counter-rotating blades

Established itself as the system which is gentlest to the yarn. The rotating motion of the blades is practically wear-free and ensures highest production speeds at lowest possible operation costs.



digitens – tension control

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.

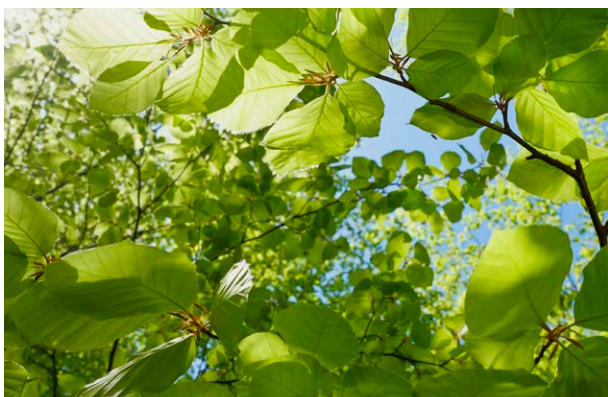


Accurate length measuring

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

Small environmental impact

SSM's cutting-edge technologies reduce waste and energy consumption, 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
Tube holder/mandrel for one specific type of tube
<i>preciforce</i> centrally adjustable online regulated, electronic backpressure system
Online density regulation system for optimal package density
Electronic length measuring system
Diameter measuring system
Full package diameter or length stop
Traverse system with counter rotating blades
Individual spindle control and drive
Integrated 2-ply creel with individual yarn detection sensor for each ply
Balloon separators
Electronically controlled disc tension device
Mechanical slub catcher
Central yarn cutter

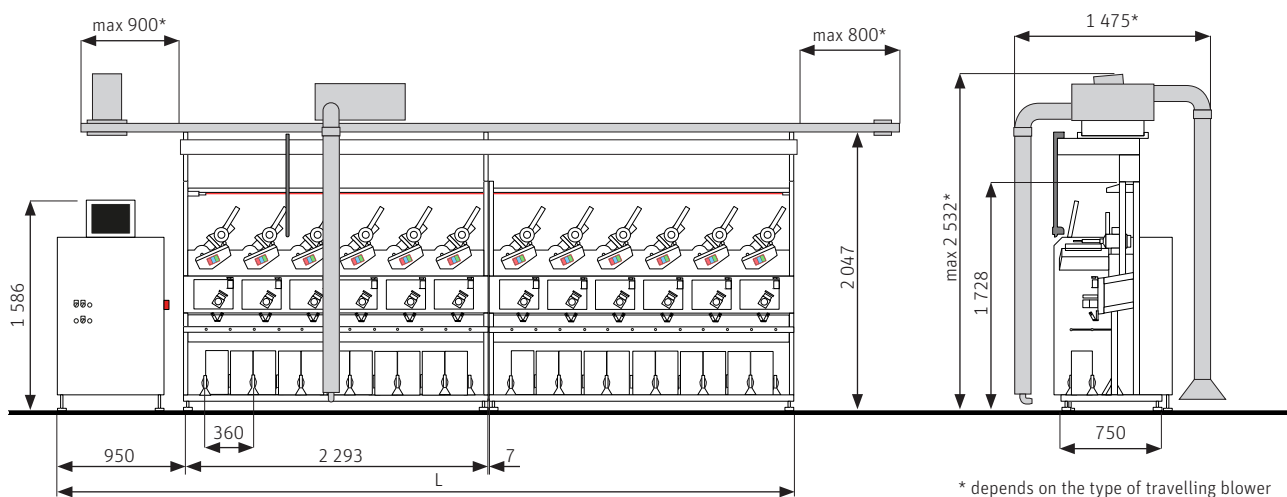
Options

Integrated 3-ply creel with individual yarn detection sensor for each ply
Individual disc pre-tension device with weights
<i>digitens d</i> online tension controlled disc tension device
Traveling blower with suction system

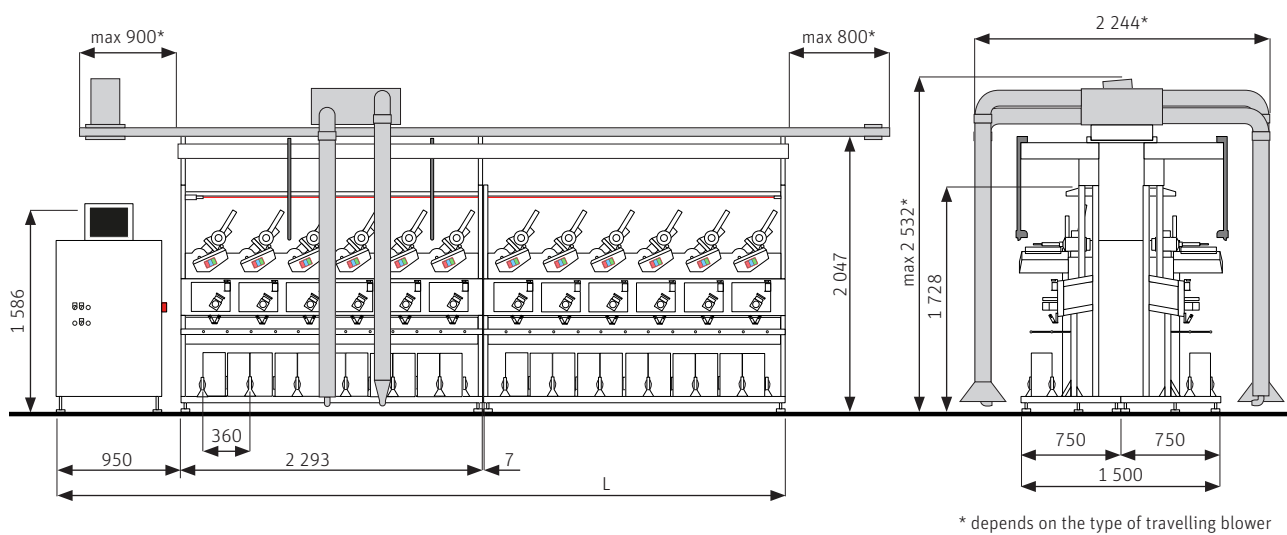
NEO-BD

Layout

NEO-BD for staple yarns – single sided layout



NEO-BD for staple yarns – double sided layout



N° of spindles	L (mm)*	
For example	NEO-BD for staple yarns	
	Single sided	Double sided
6	4 043	–
12	6 343	4 043
18	8 643	–
24	10 943	6 343
30	13 243	–
36	15 543	8 643
42	17 843	–
48	20 143	10 943
54	22 443	–
60	24 743	13 243
66	27 043	–
72	29 343	15 543
78	31 643	–
84	33 943	17 843
90	36 243	–
96	38 543	20 143
108	–	22 443
120	–	24 743

Technical data NEO-BD	
Type of winding	DIGICONE 2 or precision
Mechanical speed	up to 1 600 m/min (process speed depending on process parameters)
Package shape	cylindrical or conical
Traverse length	155 mm, mechanically adjustable +/- 5 mm
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	all kind of staple yarns
Yarn count range	Ne 1.2 ... 120
Take-up tubes	cylindrical or conical up to 4° 20'
Layout	single or double sided
N° of spindles per section	6 (single sided) and 12 (double sided)
N° 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	~ 250 W per spindle
Power consumption	~ 40 – 100 W per spindle (dep. on winding parameters/options)
Blower (installed power)	up to 2 200 W (dep. on blower type and manufacturer)



SSM Schärer Schweizer Mettler AG
Rütihof 8
8820 Wädenswil
Switzerland
T +41 44 718 33 11
info@ssm.ch

www.ssm.ch

The data and illustrations in this brochure and on the corresponding data carrier refer to the date of printing. SSM Schärer Schweizer Mettler AG reserves the right to make any necessary changes at any time and without special notice. SSM systems and SSM innovations are protected by patents.

3812-v1 en 2510