

Sewing Thread Finish Winding
Thread King III TT

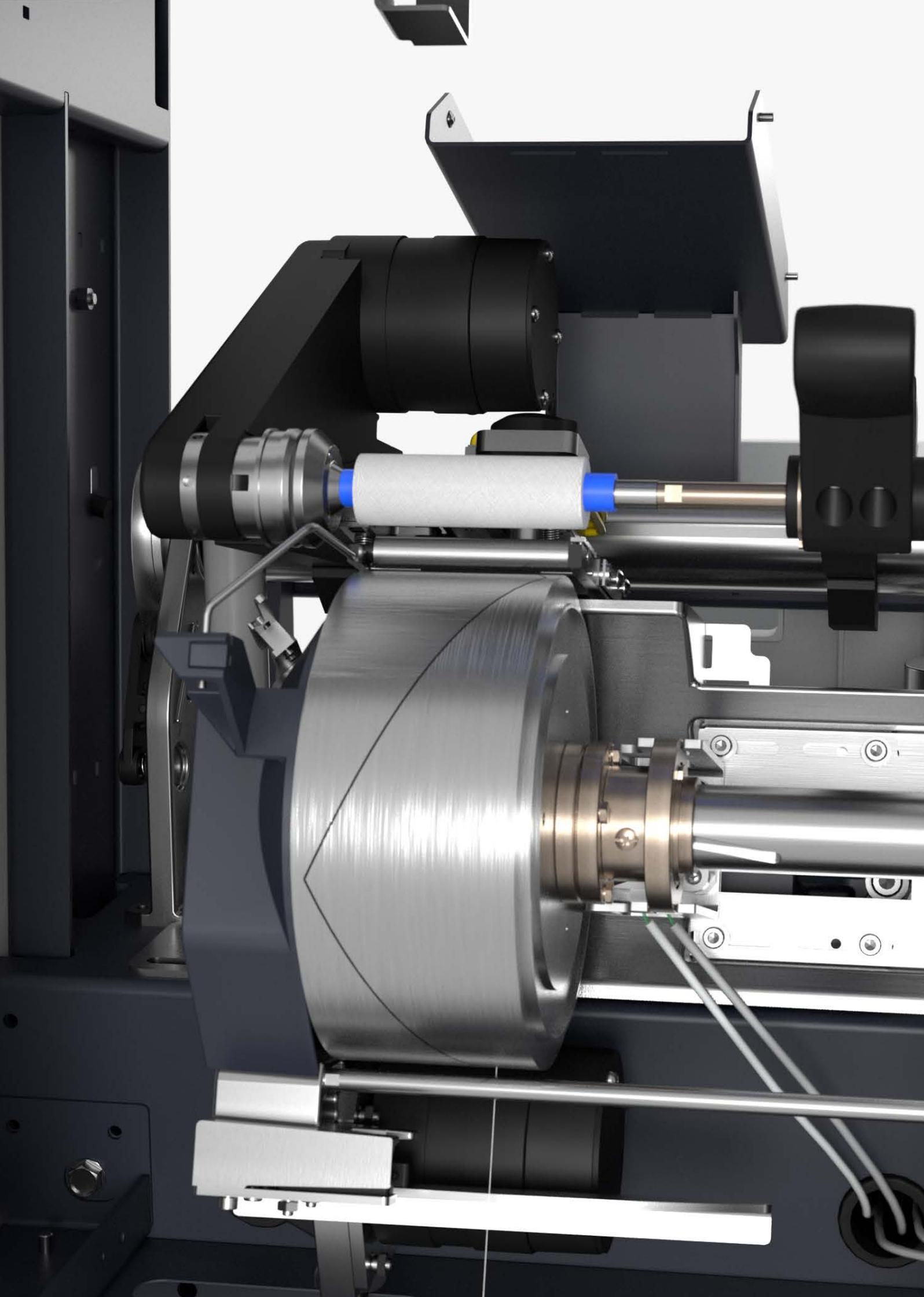


Thread King III TT

Automatic high-performance finish winder



Leading technology for yarn
processing and winding



OUTSTANDING

ADVANTAGES

Automatic doffer with tuck-in

40% faster doffing compared to previous version

Improved length measurement accuracy

Length measurement accuracy
Reduces safety margin on wound package by up to 50%, thus saving up to 1% yarn

preciforce – online backpressure system

Enabling each bobbin to reach the same density. Combined with the precise length measurement, it results in considerable savings



Nema*

The advanced IoT solution of SSM to oversee machine health and performance worldwide

lubetex pro oil applicator*

Fully integrated and precise oil applicator for hot and cold lubes

Automatic slit-drum opening

For an easy threading and position cleaning

** available as an option*

Thread King III TT

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Automatic high-performance winder

Pushing the limits of sewing thread production, the Thread King III TT has no equal when it comes to efficiency. With speeds up to 15 000 rpm and a patented tuck-in system, the machine offers a shorter production cycle and the shortest doffing cycle on the market. It also features an improved length accuracy, resulting in higher profitability and up to 50% safety margin reduction on wound packages.

Shortest doffing cycle

Thanks to a fast and reliable doffing and tuck-in system, the TK3 offers a shorter doffing cycle of up to 40%¹), from stop to start, including tucking the yarn end underneath the last layer of the package (tuck-in).



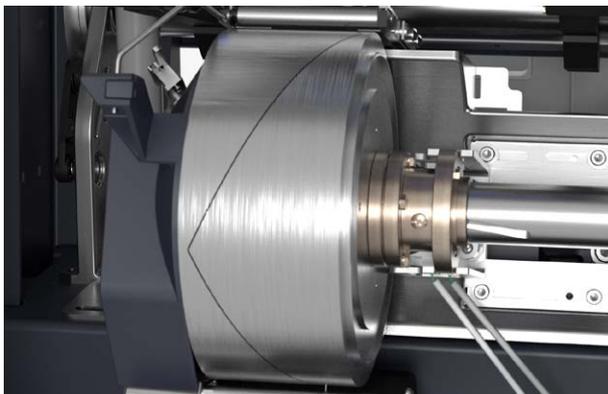
Accurate length measuring

The TK3 benefits from an improved length measuring accuracy. The safety margin of the wound package can thus be reduced by 50%, resulting in up to 1% yarn saving.



Automatic slit-drum opening

The TK3 is the only machine featuring an automatic opening of the slit-drum, boosting efficiency. Operators can easily thread-up the yarn with one hand. The encapsulated locked winding heads ensure safe operation.



Space saving and sustainable

The design of the TK3 has been optimized to reduce machine footprint. Less machines are required, for the same production capacity, resulting in less energy consumption, less waste, and thus more sustainability.



¹ compared to TK2

lubetex pro oil applicator²

The *lubetex pro* is a fully integrated precision lube applicator which features a dosing gear pump for high accuracy and clean operation, for both hot and cold lubrication. This results in the right amount of lube being applied and thus no waste. Alternatively, a kiss roller system for hot (P11) and cold (PU11) lubrication is available.



preciforce backpressure system

preciforce is the first system to allow regulation of the backpressure force. It ensures a precise package build-up for a constant density and diameter of the yarn package.



Supply package scale

Ensures less idle time and a more efficient use of supply material.

² available as an option

Basic machine

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

Automatic doffer and tuck-in

Winding unit with slit-drum for specified tube/cone

preciforce online regulated backpressure system

Electronic length measuring system per spindle

Electronic diameter measuring system

Full package diameter and length stop per spindle

Individual spindle control and drive

Electronic yarn detector

Mechanical slub catcher

Supply package scale

Universal peg for supply packages

Height adjustable supply package tray

Options

lubetex pro, precision lube applicators with dosing gear pump for hot and cold lubrication

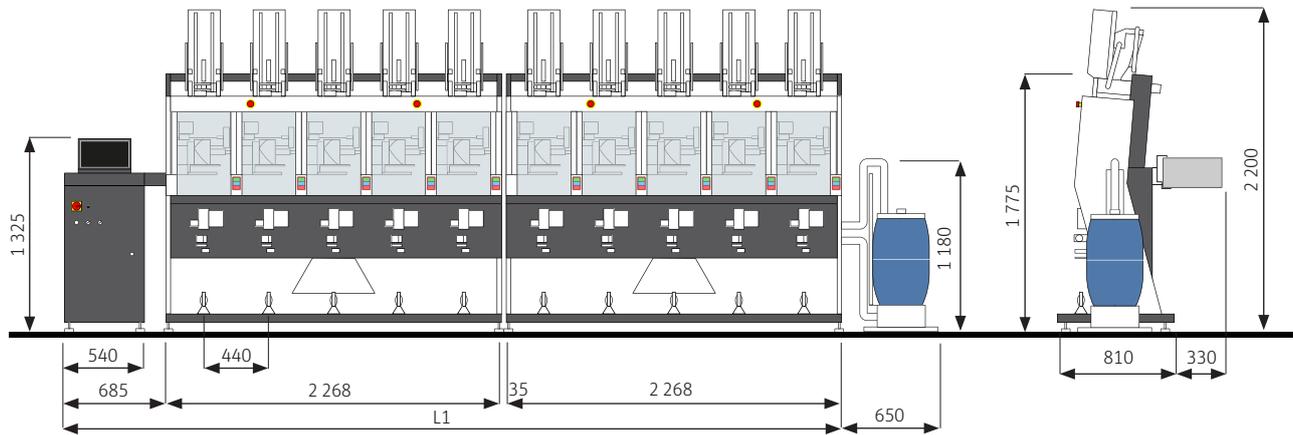
Kiss roller system for hot P11 and cold PU11 lubrication

Nema, digital suite

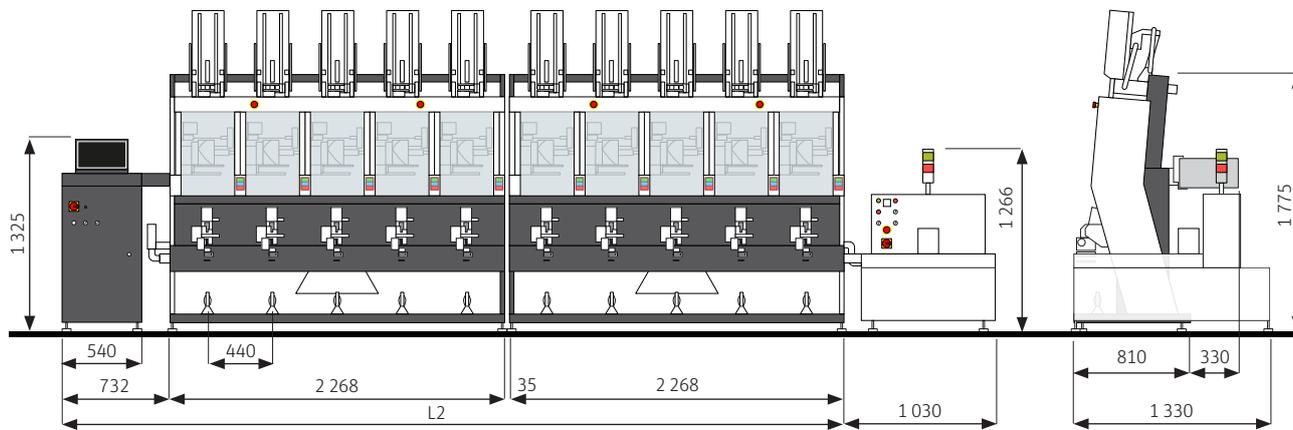
Thread King III TT

Layout

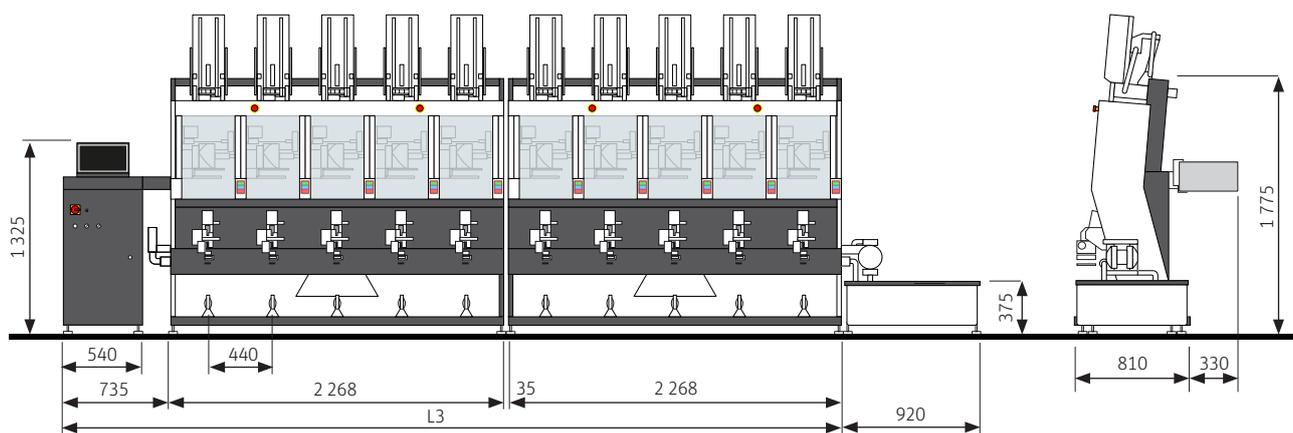
lubetex pro



Kiss roller for hot P11 lubrication



Kiss roller for cold PU11 lubrication



Number of spindles (in steps of 5)	Length [mm]	
	L1	L2/L3
5	2 953	3 003
10	5 256	5 306
15	7 559	7 609
20	9 862	9 912
25	12 165	12 215
30	14 468	14 518
35	16 771	16 821
40	19 074	19 124
45	21 377	21 427
50	23 680	23 730

Weight	net
Section	480 kg
Head stock	60 kg

Technical data Thread King III TT (TK3-TT)

Type of winding	precision crosswind
Mechanical speed	up to 15 000 rpm (up to 2 500 m/min) (process speed depending on process parameters)
Package shape	cylindrical tubes (cops)
Traverse length	1.5" – 4"/41.25 – 110 mm
Take-up package diameter	up to 85 mm
Supply package diameter	up to 320 mm
Yarns	spun thread/core spun, filament twisted/flat, textured filament, natural silk, viscose/rayon, technical thread, special thread
Yarn count range	up to 3 300 dtex
Take-up tubes	cylindrical; base diameter 10mm (smaller on request) and length ≤ 120mm
Layout	single sided
Number of spindles per section	5
Number of spindles min./max.	5/50
Maximum number of spindles per oiling system	25
Gauge	440 mm
Drive	individual double drive system per spindle
Installed power	480 W per spindle
Power consumption	from 150 to 200 W per spindle (depending on winding parameters/options)
Compressed air	6 bar



SSM Schärer Schweiter Mettler AG

Rüthof 8

8820 Wädenswil

Switzerland

T +41 44 718 33 11

F +41 44 718 34 51

info@ssm.ch

www.ssm.ch

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