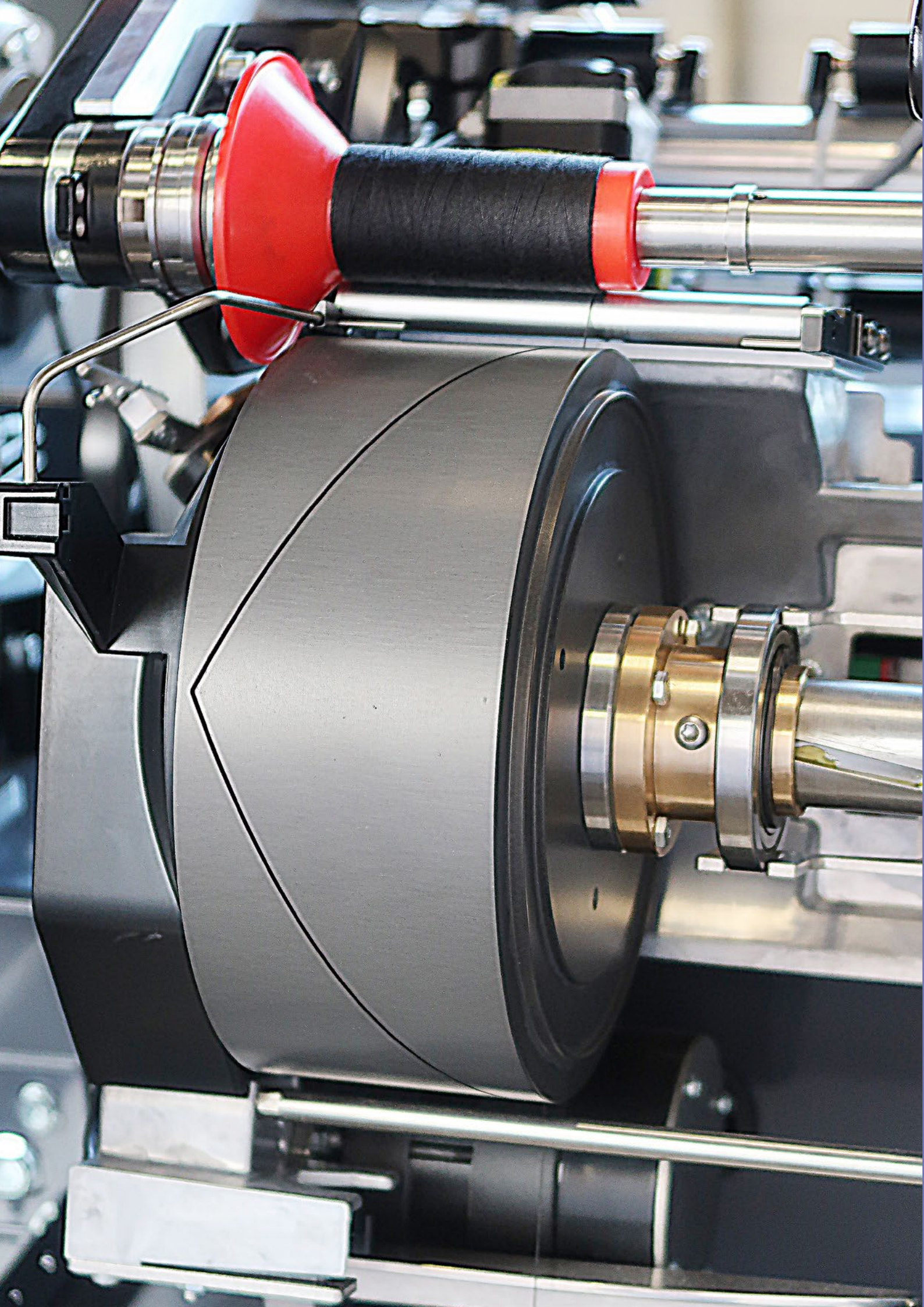


Thread King III KT

Automatic high-performance finish winder



Leading technology for yarn
processing and winding



OUTSTANDING

ADVANTAGES

Automatic doffer with tuck-in

Keeping production interruptions to a minimum thus maximizing productivity

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 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 KT

Thread King III KT

Automatic high-performance winder

Pushing the limits of sewing thread production, the Thread King III KT 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 increased supply tube quantity as well as an improved length accuracy, resulting in higher profitability and up to 50% safety margin reduction on wound packages.

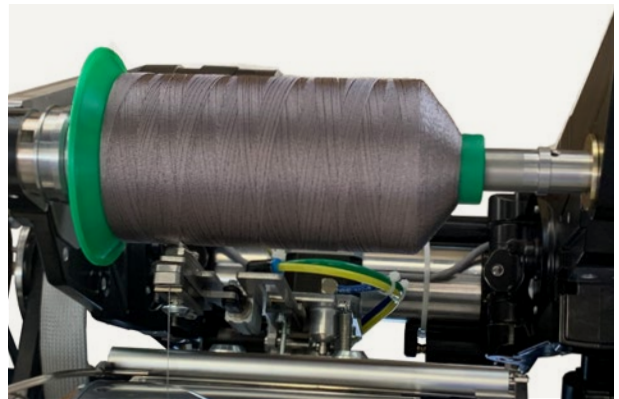
Shortest doffing cycle

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 the yarn end drawn underneath the last package layer (tuck-in). An automatic magazine line changer is available as an option.



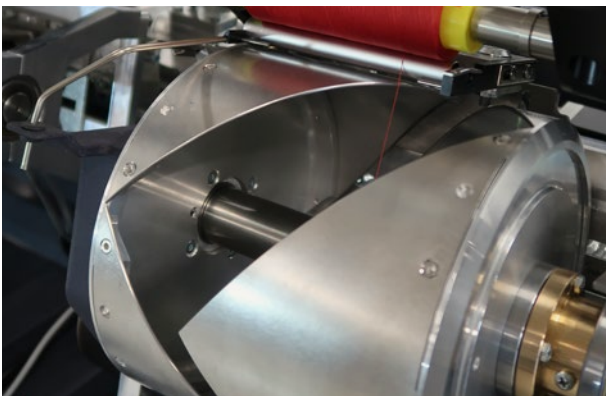
Accurate length measuring

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 oil applicator²

The lubetex 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. An alternative kiss roller system for P11 for hot lubes and PU11 for cold lubrication is also 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

Adjustable supply package tray for package diameters up to 320 mm

Options

Automatic magazine line changer

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

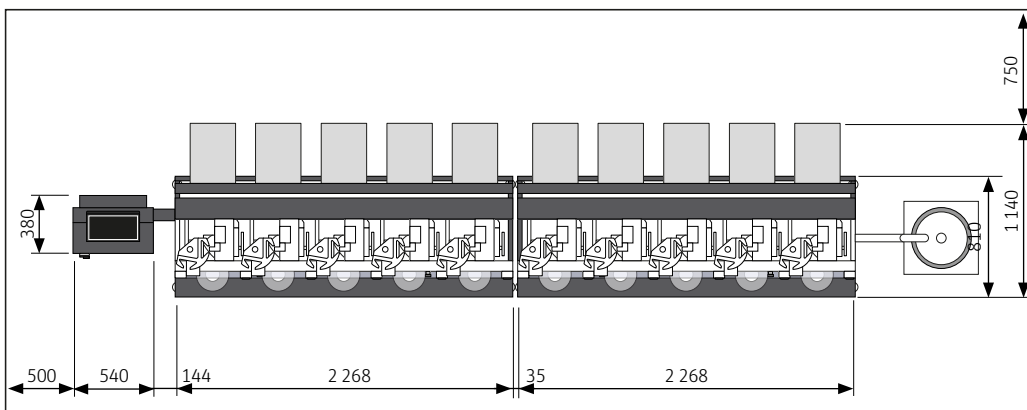
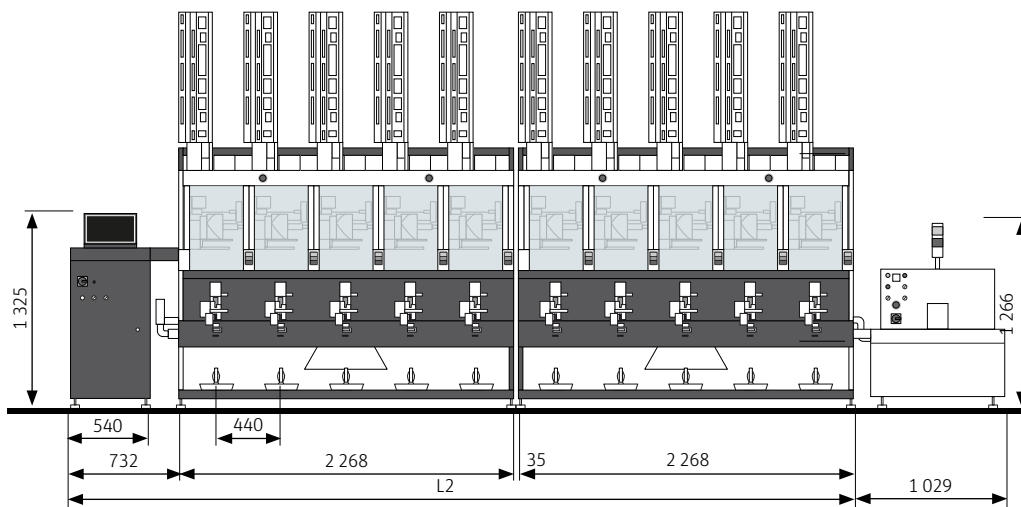
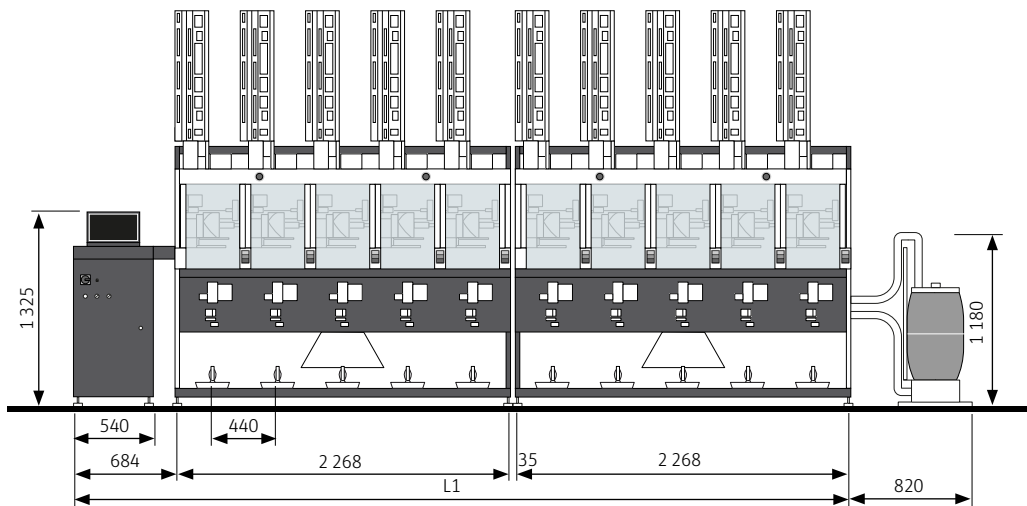
Kiss roller system for hot P11 and cold PU11 lubrication

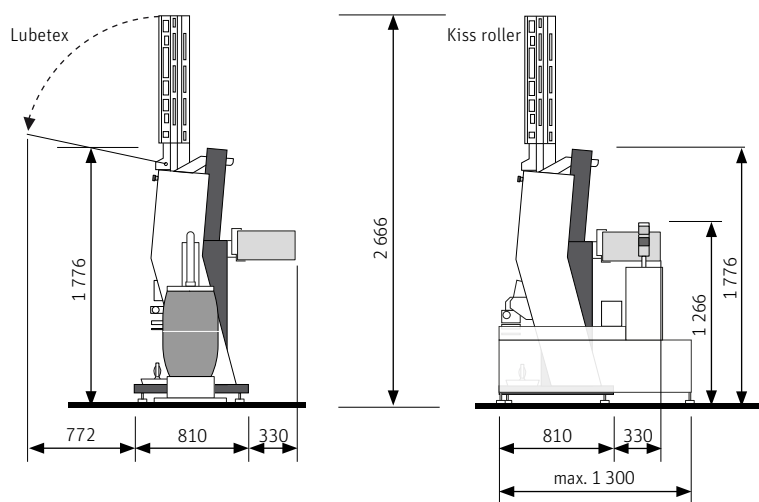
Automatic yarn end fixation with snap system (K/RE).
 After winding the yarn is drawn into the snap-ring of the Kingspool.
 The snap-spool is closed automatically, and the yarn is cut

Nema, digital suite

Thread King III KT

Layout





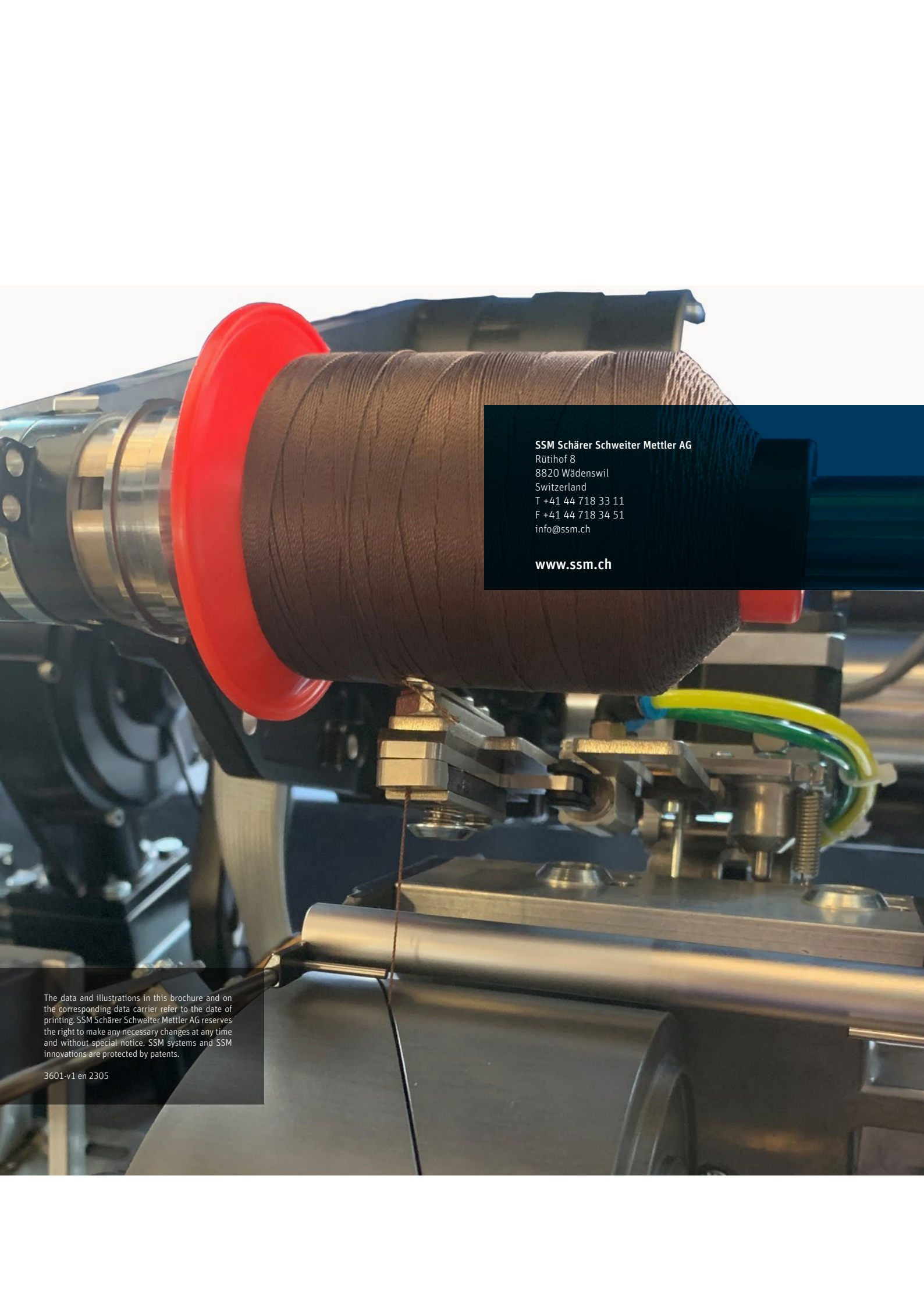
L1 ready for Lubetex
L2 ready for Kiss roller

Number of spindles (in steps of 5)	Length [mm]	
	L1	L2
5	2 952	3 000
10	5 255	5 303
15	7 558	7 616
20	9 861	9 909
25	12 164	12 212
30	14 467	14 515
35	16 770	16 818
40	19 073	19 121
45	21 376	21 424
50	23 679	23 727

Weight	net
Section	480 kg
Head stock	60 kg

Technical data Thread King III KT (TK3-KT)

Type of winding	precision crosswind
Mechanical speed	up to 2 500 m/min (process speed depending on process parameters)
Package shape	kingspools
Traverse length	1.5" - 6" / 35 - 152.4 mm
Take-up package diameter	up to 125 mm (depending on tube dimensions, certain restrictions may apply)
Supply package diameter	up to 320 mm
Yarns	filament twisted / flat, textured filament, natural silk, viscose / rayon, technical thread, special thread
Yarn count range	up to 3 300 dtex with doffer up to 5 000 dtex without doffer
Take-up tubes	kingspools up to 2° / tip diameter ≥18 mm
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 50 to 140 W per spindle (depending on winding parameters/options)
Compressed air	6 bar



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