

Sewing Thread Finish Winding  
Thread King III KT



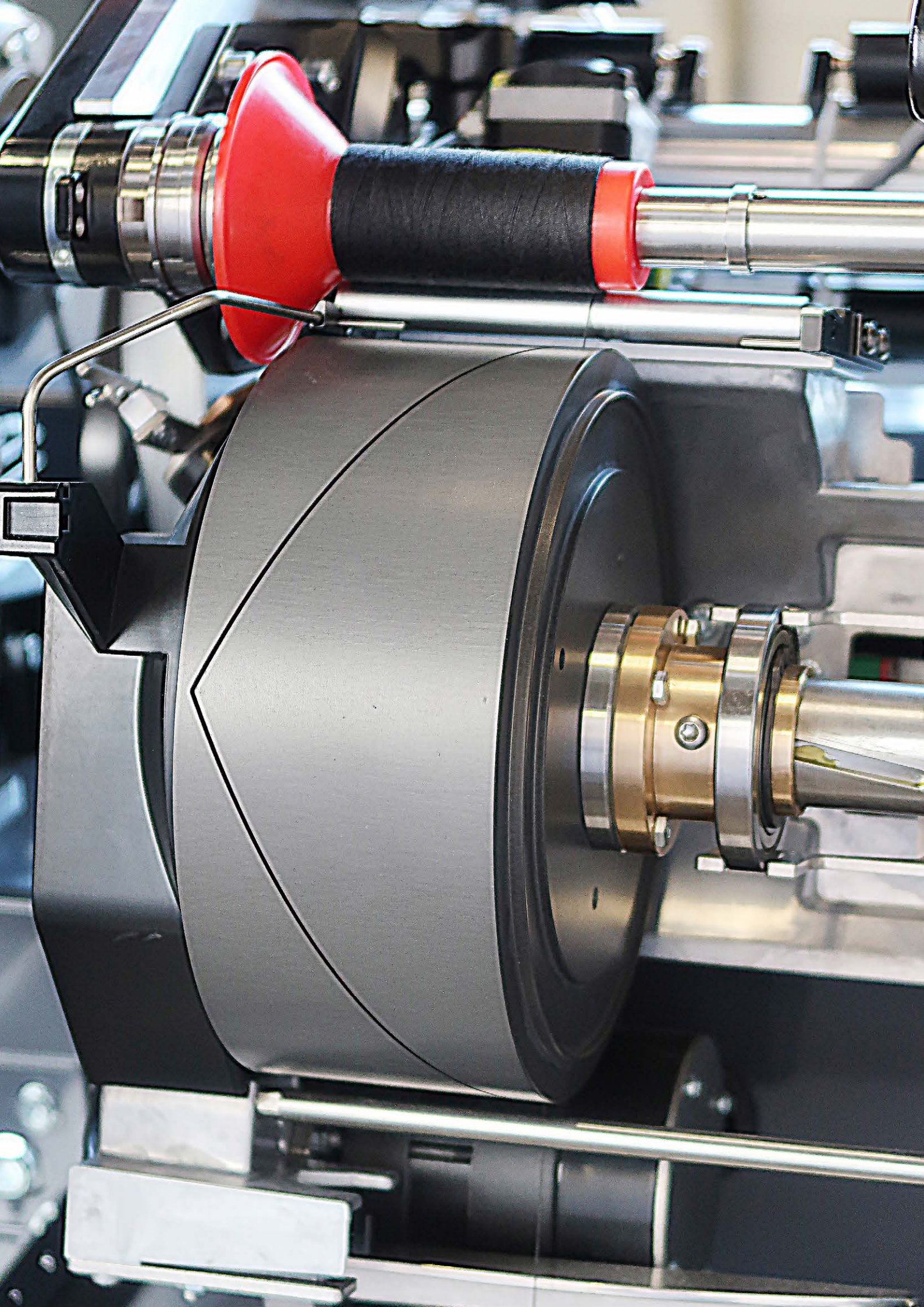
# Thread King III KT

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 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*

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## 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.

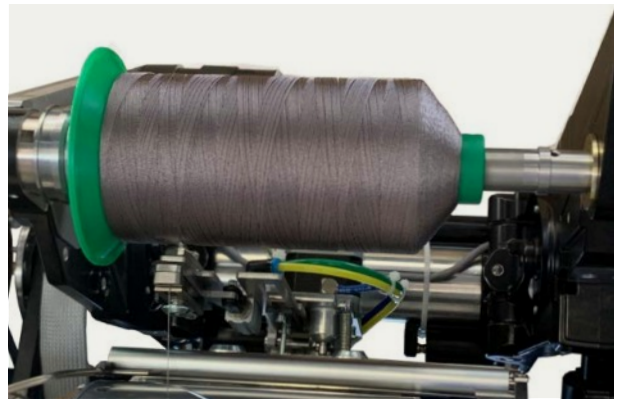
### Shortest doffing cycle

Thanks to a fast and reliable doffing and tuck-in system, the TK3 offers a shorter doffing cycle of up to 40%<sup>1</sup>, 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.



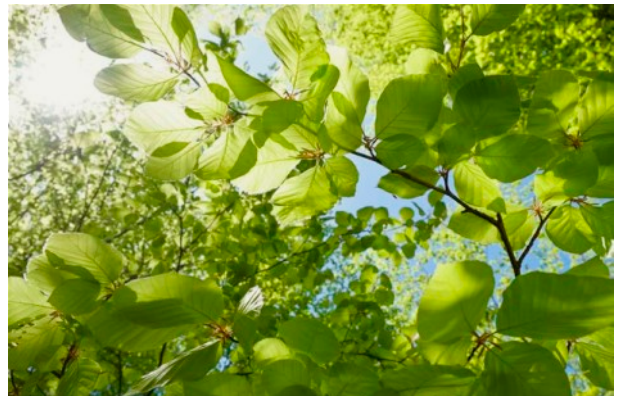
### Automatic slit-drum opening

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.



<sup>1</sup> compared to TK2

## lubetex pro oil applicator<sup>2</sup>

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.

<sup>2</sup> 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

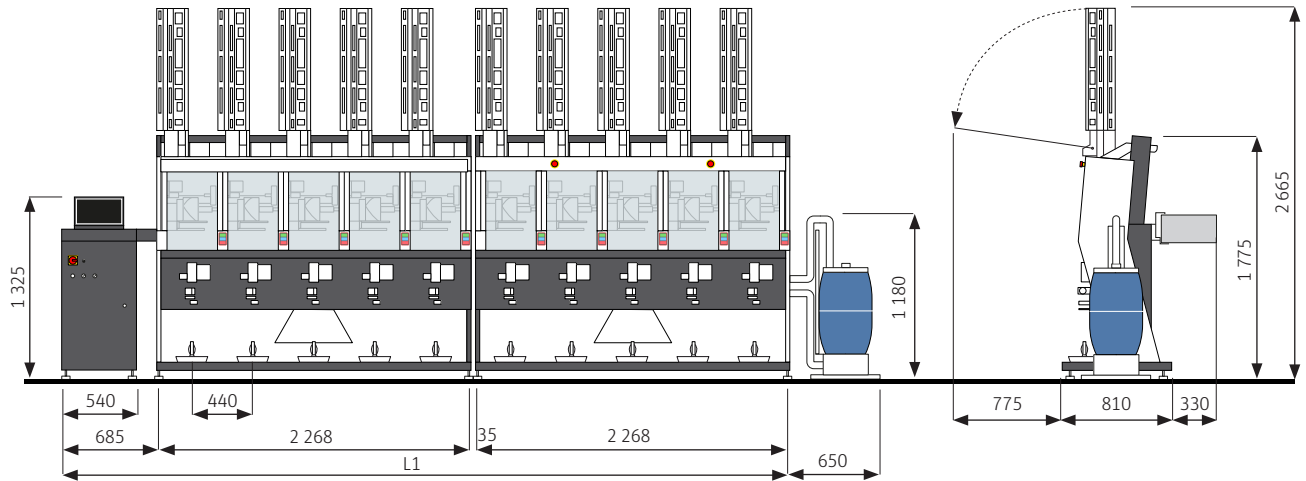
### Options

- Automatic magazine line changer
- lubetex pro*, 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

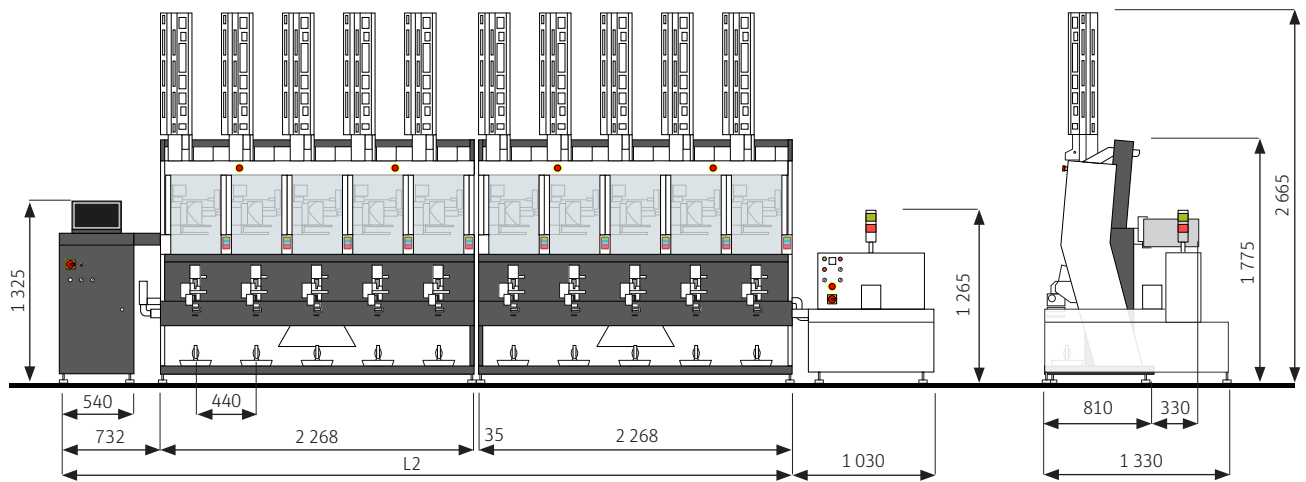
# Thread King III KT

## Layout

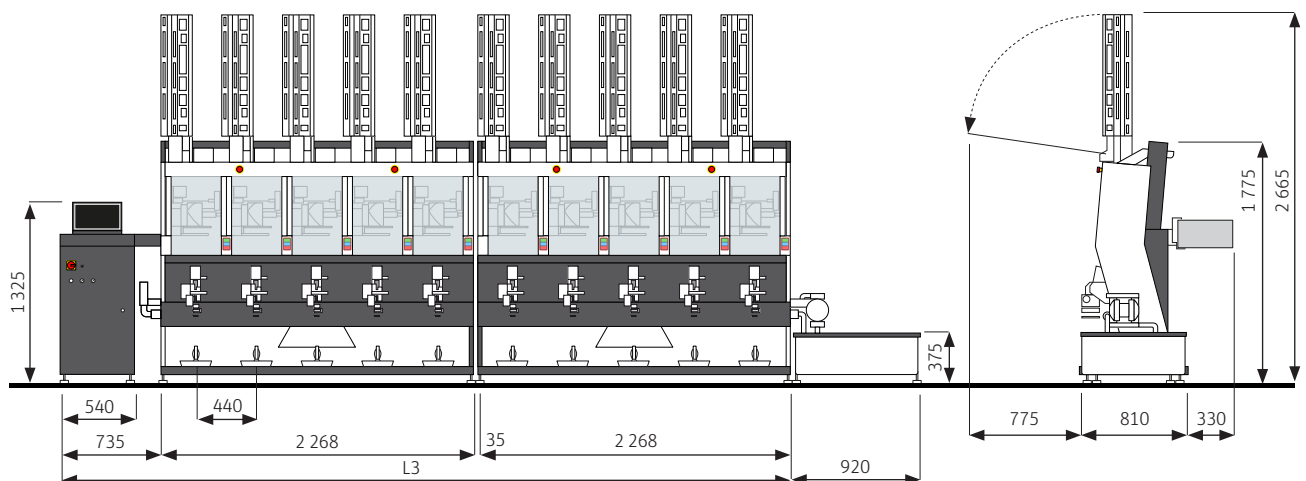
### lubetex pro



### Kiss roller for hot P11 lubrication



### Kiss roller for cold PU11 lubrication

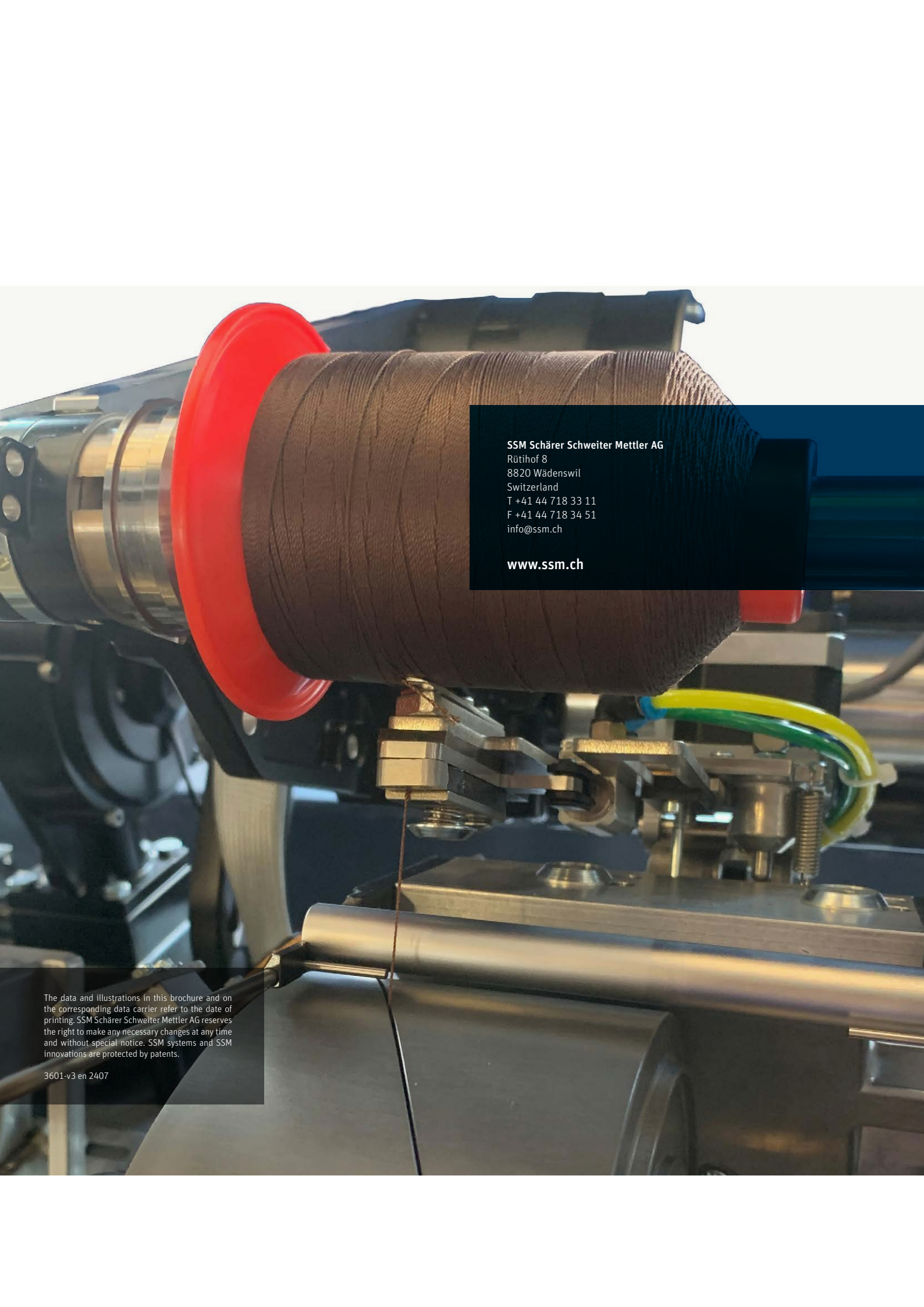


| Number of spindles<br>(in steps of 5) | Length [mm] |        |
|---------------------------------------|-------------|--------|
|                                       | L1          | L2/L3  |
| 5                                     | 2 953       | 3 003  |
| 10                                    | 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 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 automatic doffing<br>up to 5 000 dtex with manual doffing                         |
| Take-up tubes                                | kingspools up to 2°/tip diameter ≥18 mm and length ≤ 205 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 150 to 200 W per spindle (depending on winding parameters/options)                                 |
| Compressed air                               | 6 bar (7 bar for snap execution)  |





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