

KNITSTORE K52

Storage feeder: yarn control with the latest sensor technology



The storage feeder KNITSTORE K52 with vertical winding body and yarn separation is used for yarn feeding on knitting machines with regular and irregular yarn consumption.

The feeder is equipped with CAN BUS communication and is operated with 57 V DC.

The direction of rotation of the winding disc can be adjusted according to the yarn to be processed (S- or Z-twist). The yarn quantity is controlled by a newly developed optical-mechanical sensor system.

A circumferential LED light strip provides information about the current operating status of the feeder. The tool-free input tensioner with modular structure allows a consistent operating procedure in different mounting positions of the units.

The KNITSTORE K52 is equipped with a quick cleaning function of the winding disc as well as a special folding mechanism to ensure quick and easy replacement/cleaning of yarn output tensioner.

With the GTN, the units can be grouped and the yarn consumption can be determined via the integrated yarn length measuring system LMS. The fast stop function, which stops the machine immediately in case of yarn breakage, as well as the integrated simple update function of KNITSTORE K52 and GTN are also integrated in the terminal.

ADVANTAGES

- Compact design
- Spiral tensioner: new brake system for even finer and smoother adjustment of the yarn output.
- Adjustable direction of rotation of the winding (processing of S-Z-twisted yarn)
- Monitoring of the yarn quantity by optical-mechanical sensor technology
- Yarn separation 0.9 mm
- Maintenance-friendly cleaning function of the winding disc
- Quick and easy replacement or cleaning of the yarn output tensioner
- Circumferential LED light strip providing information on the operating status of the feeder
- Modular, swivelling input tensioner
- Display of the cause of the feeder shutdown in the GTN operating terminal
- Integrated yarn consumption measurement via GTN operating terminal
- Automatic determination of the quickest possible stopping time via the "Fast stop" function integrated in the GTN operator terminal



▶ K52

Components K52

EASY REPLACEMENT OF THE TENSIONER

The yarn output area can be swivelled for easy replacement of the spiral brake/membrane.

SPOOL BODY

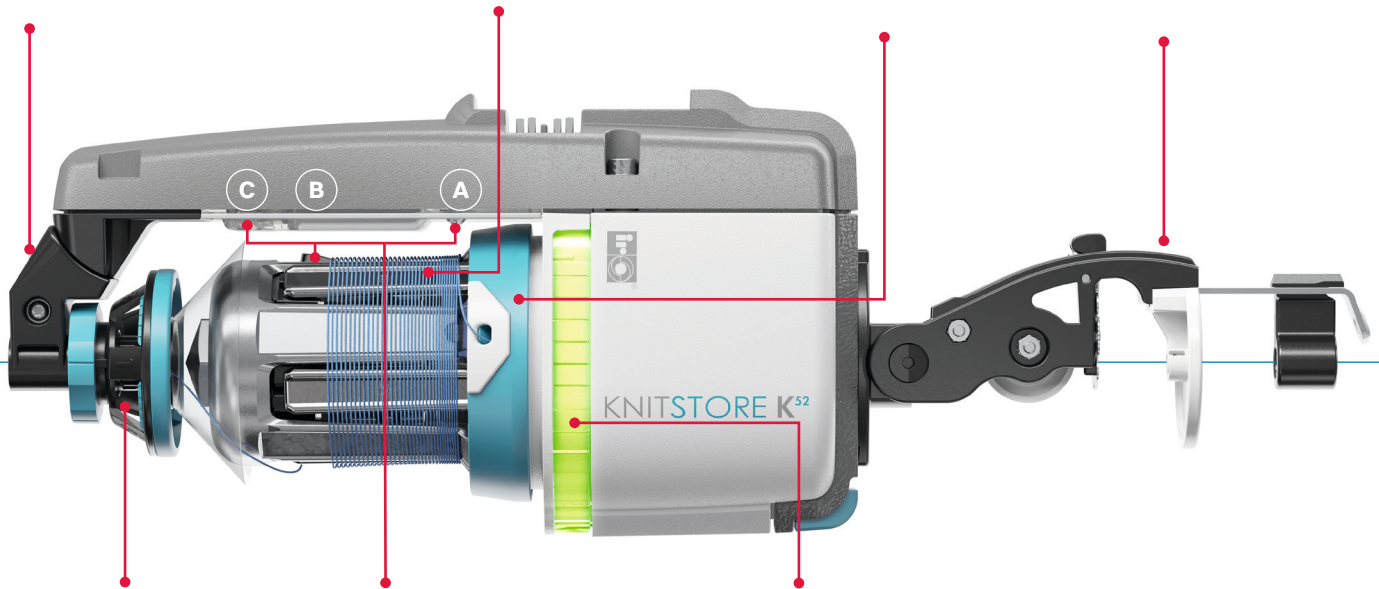
Stationary spool body with yarn separation, adjustment of the direction of rotation in S and Z possible.

CLEANING FUNCTION

A special mechanism allows the winding disc to be positioned to remove lint or dirt, so that the areas to be cleaned are easily accessible.

INPUT TENSIONER

The special shape of the swivel range of the tensioner allows easy threading regardless of the mounting position.



M-FLEX (optional)

As an alternative to the spiral brake, the K52 is also available with the M-FLEX brake system (with plastic membrane). This can be easily retrofitted.

SENSOR TECHNOLOGY

Sensor A (optical) controls the yarn infeed (stop motion in case of yarn breakage in front of the feeder).

Sensor B (mechanical) controls the filling level.

Sensor C (optical) calculates the yarn consumption, regulates the motor speed (constant fill quantity) and functions as an output stop motion.

CIRCUMFERENTIAL LIGHT STRIP

Clearly visible circumferential light strip to indicate the operating status of the unit.

CONTROL TERMINAL GTN

Includes the following functions:

- Yarn consumption measurement LMS
- Grouping of feeders
- Display of the cause of the feeder shutdown
- "Fast stop" function
- Software update function

TECHNICAL DATA

Power supply:	57 V DC
Current:	0.55 A
Average power:	30 VA
Yarn tension:	1.0 cN - 10 cN, depending on the processed yarn
Yarn separation:	0.9 mm
Yarn gauge range:	17 - 500 dtex
Max. yarn feed rate:	700 m/min.
Weight:	1.2 kg



ADVANCED KNITTING TECHNOLOGY

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