

MER 4

Elastan Roller: Process-safe working with lowest yarn tensions at highest machine speeds

The MER 4 is a universal elastane roller designed for the positive feeding of plain elastane yarn to large-diameter circular knitting machines.

This new version of the elastane roller has been developed to process plain elastane at even lower yarn tensions.

Especially at very high machine speeds, the completely newly developed sensor unit Performance (P) stands out.

The sensor units have no electrical components and are easy to clean.

Considerable increases in production ratings can be obtained by fitting the cost-effective optional cover.

Advantages

- Available with sensor unit Standard (S), Roller (R) and Performance (P)
- Completely newly developed sensor unit system Performance (P) which ensure working with lowest yarn tension also at highest machine speeds. This is characterised in particular by improved sliding and gliding properties of the yarn deflection bolt and the more compact design which is less susceptible to contamination.
- Highly versatile. The unit has a single ratio only and is therefore suitable for all current machine types.
- Compact dimensions, minimum space requirement.
- High-visibility central warning light. The operator sees warnings sooner, this cuts yarn breakage downtime and increases knitting machine production rates
- The automatic, adaptive electronic shutdown system is integrated into the shutdown current circuit.

MER 4: components

1 Shutdown system

The shutdown system operates using the force of gravity. If the yarn breaks, contactless magnetic force trips the shutdown system. There are three different sensor units available.

Sensor unit Standard (S)

- Defined operating and non-operating position with locking clip
- Low yarn tension
- Can be combined with sensor unit Roller(R) in one device
- Compatible with MER 3

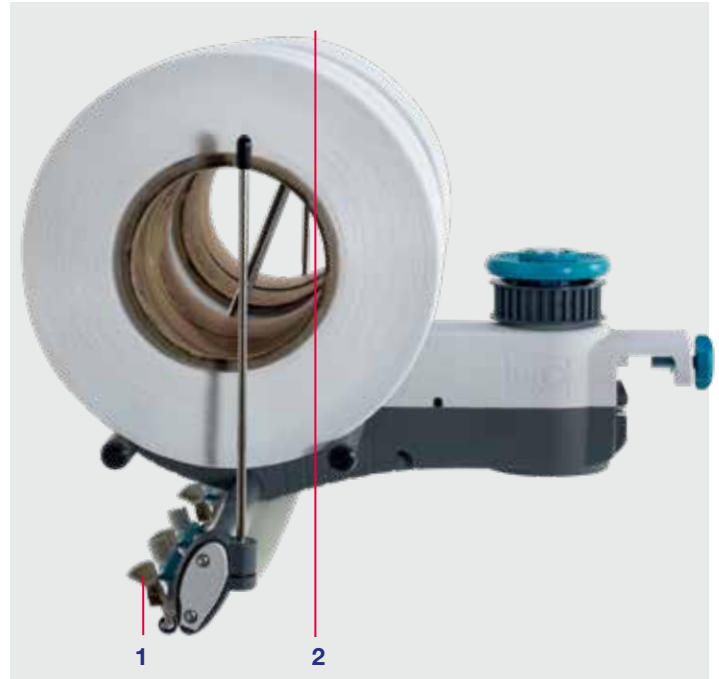
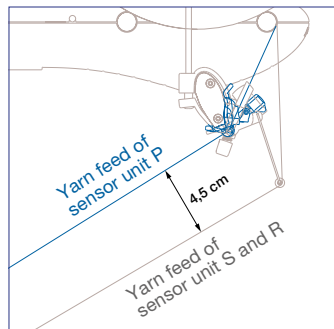
Sensor unit Roller (R)

- Defined operating and non-operating position with locking clip
- Low yarn tension
- Can be combined with sensor unit Standard(S) in one device
- Compatible with MER 3



Sensor unit Performance (P)

- Very simple handling without adjustment of the stopping force
- Defined operating and non-operating position with locking clip
- Consistently lower yarn tensions and higher machine speeds thanks to the modified yarn angle
- Improved sliding and gliding properties of the yarn deflection bolt due to its special shape
- Mounting aid marked on the stop motion device
- Cannot be combined with the sensor units S or R in one device
- The result is a yarn infeed with a different height (see drawing below), which must be taken into account for the ring and device assemblies or checked in advance.
- Compatible with MER 3



2 Cover (optional)

The warning light is mounted in a central, highly visible position. Yarn breakages are indicated by a colour change.



Technical Data

Shutdown current circuit for yarn break	
Rated voltage (machine stoppage):	12/24 V AC/DC
Rated current:	25 mA

Applications	
■ Circular knitting machines	Flat knitting machines
■ Sock machines	Warp knitting machines
■ Hosiery machines	Seamless machines

ADVANCED KNITTING TECHNOLOGY

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