Ri-Q-Tubes
For all Rieter ring and compact-spinning machines

RIETER

Ri-Q-Tubes

Quality spinning tubes

Long-term stability for an extended lifetime and high operating reliability

Ri-Q-Tubes – Quality Spinning Tubes

Rieter Ri-Q-Tubes guarantee precision and a long lifetime to meet the highest technical and technological demands on the spinning process.

Ri-Q-Tubes have been specifically designed for Rieter ring and compact-spinning machines. With their unique plastic composition and dimensional stability they are specifically designed for high spindle speeds, high concentricity and a long lifetime combined with minimum loading of the spindle bearings.

Wide product range

The range of spinning tubes includes tube lengths from 180 mm to 250 mm. They are supplied in various colors. Ri-Q-Tubes are used in all standard applications. The raw materials can be used in a range from cotton through blends to man-made fibers. Tubes with specially formed gripper teeth inside the head are available for elastic core-spun yarns or yarns with a strong tendency to snarl.

A wide range of spinning tubes suitable for different tube lengths

Ri-Q-Tube for standard applications

Ri-Q-Tube with gripper teeth

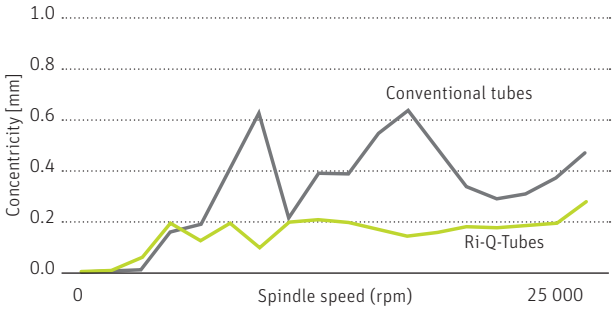
Considerable Experience and Know-How

Outstanding quality features

Rieter Ri-Q-Tubes are designed in conformity with the ISO 368-2017 standard. The surface of the spinning tubes features special non-slip properties, which are greater in the piecing zone and ensure optimum yarn take-up even at high spindle and winding speeds.
The tube material, a special plastic blend, makes the spinning tubes robust and wear-resistant. This ensures extremely high dimensional stability over many years. They are suitable for both manual and automatic removal of yarn residues.

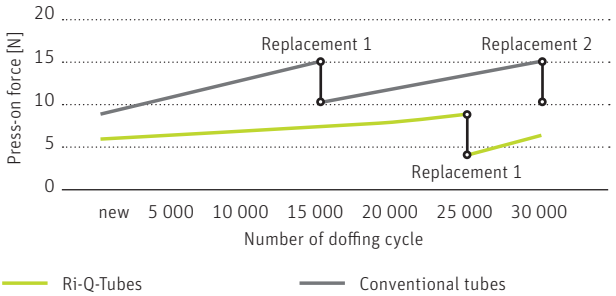
Ri-Q-Tubes can be used on machines with tube loaders or linked with winders. In order to ensure that concentricity can be maintained over the long term, the tubes should not be used for steaming.

Spinning tube concentricity



Superior concentricity with Ri-Q-Tubes

Spinning tube lifetime and press-on force



Extended lifetime and lesser press-on force for maximum doffing reliability with Ri-Q-Tubes

The advantages of Ri-Q-Tubes

- Longer lifetime of spindles and tubes
- High spindle speeds up to 25 000 rpm
- Very high concentricity, i.e. constant thread tension, fewer ends down and minimal downtimes
- Very good press-on force behavior and maximum doffing reliability
- Long-term stability from doff to doff
- Non-telescoping
- Spinning tube taper 1:64, shape B
- Ratio of ring diameter to tube length: 1:4.75 – 5.3

Long-term stability

Doffing reliability on machines with automated doffers is an important quality aspect. Tests with comparative measurements over 25 000 doffs clearly show that press-on force during doffing is much lower with Rieter Ri-Q-Tubes, especially over the long term.

The measuring results confirm the higher operating reliability, and derived from this the longer lifetime of Ri-Q-Tubes compared with other products. The decisive factor is that the doffer beam, which removes the full cops and presses on the empty tubes, with virtually constant force at each spindle over the entire length of the machine. Otherwise the doffer beam can suffer damage and in any case machine efficiency can be reduced by interruptions to doffing, as is the case with conventional spinning tubes.

The advantages described here are only possible as a result of the special, PBTP-based plastic blend, since this material is self-lubricating. The material is unaffected by roughening of the inside surface, which can occur during the use of the tubes, and thus guarantees a long lifetime.

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