

## Rieter C 70 high performance Card J 20 Air-Spinning Machine - highest productivity

### Rieter C 70 high-performance Card

With the C 70, Rieter has succeeded in raising the dependable technology of the 1.5 m wide card to a new level. The basis for the improvement in production and quality is the enlarged active carding area in combination with the precisely controllable carding gap. Optimized extraction elements in the pre- and post-carding area lead to a high raw material utilization. This raw material utilization and the lower energy consumption per kilogram of card sliver contribute to the efficient production of superior quality yarn.

#### Enormous leap in productivity

The production performance of the C70 card, compared to that of the C 60, can be increased by up to 40% with equal or better sliver quality. This marked improvement is achieved by redistributing the carding zones in the flats area and by redesigned flats guiding.

#### Key factor, carding area

With the C 70, 32 flats are operative. Compared to the C 60, the active flats area is increased by 45% and compared to a conventional card by 60%. This means that with each cylinder clothing of the C70, distinctly more carding work is performed.

#### Quality through precise carding gap

The precise flats guiding and the revised flats design permit a very exact and reproducible setting of the distance between the cylinder clothing and the flats, so that a minimum of 0.1 mm is possible. This precision leads to improved carding results. Furthermore, the flats cleaning of the C 70 has been completely reorganized.

#### Optimal raw material exploitation

The customer profits from an optimal fiber utilization thanks to the extraction knife in the pre- and post-carding area. The extraction knife with variable ejector distance can be exchanged without tools in the shortest possible time.



C 70 Card

The flats speed is infinitely adjustable via the frequency converter, independent of the cylinder speed. This means the card can be individually adjusted and thereby optimized to the type of raw material being processed.

#### Uniform sliver quality

The proven integrated cylinder grinding system IGS – an exclusive Rieter product – is available as an option and provides the customer with constant quality values during the whole lifespan of the card clothing. With this fully-automatic grinding system, downtimes for clothing maintenance are a thing of the past.

#### Low energy consumption

The high production performance of the C 70 positively affects the energy consumption per kilogram of produced card sliver. The C 70 has a 15% lower energy requirement than that of the C 60 which, considering the globally rising prices of electricity, represents a principal factor in the economic production of yarn.

### J 20 Air-Spinning Machine

Rieter now offers up to 120 highly productive spinning units in one machine. The J 20 can be equipped with independently operating sides, i.e. on one machine, two different yarn qualities can be spun at the same time.

#### The new duo spinning unit with high spinning stability and yarn quality

The new spinning unit of the J 20 produces higher yarn strength and fewer imperfections. The improved yarn quality also results in a lower number of quality cuts and reduces natural ends down. Together with reliable robots of the J 20, far greater production efficiency is achieved resulting in a high yarn production.



Improved spinning stability and yarn values with the new spinning unit

#### With 120 spinning units, the longest machine in the world

Due to the increased spinning stability with fewer quality cuts, it was possible to lengthen the J 20 by one section to a total of 120 highly productive spinning positions. The J 20 is therefore the longest air-spinning machine worldwide. 4 robots, two on each side, ensure maximum production efficiency. The option of separate sides makes the J 20 even more flexible, allowing two different yarn qualities to be produced simultaneously.

#### Revised machine construction for optimized production process

The J 20 offers optimized machine construction. The centrally-driven ventilators, the entire electric and electronic systems as well as the supply and disposal connections are integrated in the drive frame. Separate filter chambers process the waste from the spinning positions and the waste from the robots and are also separate for the left and right machine sides. The waste can therefore be individually collected, i.e. purity of material type, and further used.

The bobbin delivery on the drive frame has been lowered to a height of 1.45 meters. This enables the bobbin conveyor belt to be optimally controlled by the operator and the bobbins conveniently removed and placed on pallets. The end section only consists of the service area for the robot at the rear and the free-standing tube feeder with an extended capacity of 350 empty tubes. The two separate tube chains, which allow different color tubes to be fed to the left and right machine sides, are a new feature of the tube feeder. This prevents tubes being mixed up when two yarn qualities are being simultaneously produced. ♦