

EliTwist® Two-Ply Compact Yarn directly from your Ring Spinning Machine

The EliTwist® Spinning Method combines compact spinning and twisting of a yarn in one single operation.

The specific yarn structure provides for the typical characteristics of EliTwist® Yarns, which are responsible for the very good processing properties:

- Superior yarn strength and maximum work capacity owing to excellent fibre substance utilization
- Very good yarn evenness as a result of doubling
- Circular, compact yarn cross-section
- Extremely low hairiness values
- Smooth yarn surface
- High resistance to yarn slippage
- Good abrasion resistance
- Both yarn legs of the two-ply yarn with identical direction of twist

EliTwist® Yarns can be produced in a most cost-effective way:

- Compact Spinning and twisting in one operation
- Significant production increase on ring spinning and winding machine
- Doubling and twisting are saved
- Spindle speed and ends-down achieve the level of single compact yarns spun in the same yarn count

Areas of application developed until now:

- Principally no restriction regarding raw materials; fibre blends are also possible
- High-grade shirts and trouser fabrics
- Light gabardine fabrics
- Increasingly used for knitwear
- Special two-ply yarns with high strength
- Industrial fabrics

EliTwist® has successfully further improved the excellent textile and physical characteristics of compact yarn. The extremely cost-effective application of this spinning process on existing ring spinning frames with the EliTe® CompactSet further emphasises the high flexibility of the EliTe® Process.

EliTwist® can be retrofitted to all spindles of EliTe® CompactSet and Fiomax E already installed. EliTe® CompactSet with EliTwist® CompactSet can be used on many types of ring spinning frames.

The structure of these EliTwist® Yarns provides new approaches for the production of core-yarns and other special yarns. The Core-Yarn Device developed by SUESSEN for this purpose allows to spin core-yarns with perfect covering effect by feeding the filament into the centre of the twisting triangle.

Depending on the fibre material, even the smallest yarn twist coefficients are possible. As a rule, the optimum twist coefficient of EliTwist® Yarns is between the twist coefficient of a single yarn and the ply-twist coefficient of a conventional S/Z two-ply yarn.

Splicing of EliTwist®Yarns is technically possible and has been solved by all manufacturers of winding machines.

Summary:

The EliTwist®Spinning Method is the most cost-effective method worldwide to produce two-ply compact yarns. The technological yarn parameters are unequalled. The EliTwist®System can be retrofitted to all EliTe®Spindles so far delivered. All ring spinning machines suitable for the EliTe®CompactSet can be equipped with EliTwist®.