



*SUESSEN, Spindelfabrik Suessen
– Press Release NEW PRODUCT –*

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QuickSpin System (QSS)

The Approved Testing Equipment for Clearly Evaluating Raw Material Quality

Raw material represents one of the most significant factors in yarn production costs (in many cases, the figure exceeds 50%). Consequently, the fibre material and the fibre material composition that are chosen are absolutely critical aspects regarding both yarn quality and the profitability of spinning mills.

The QuickSpin System (QSS) is the approved and highly advanced fibre testing system, facilitating the accurate forecasting of yarn properties and their processability. Remarkably, this can be achieved by using even very small fibre samples.

The QSS comprises two independent units: Microdust-Trash Analyzer (MDTA 3) and QuickSpin Unit (QSU)

The QuickSpin System requires only small fibre samples (up to 10 g) and short testing time. It simulates fibre opening to carding. The yarn is formed with real twist. The system collects data regarding spinning behaviour, trash and dust. It is also possible to test raw material blends.

The QuickSpin System provides data regarding cleanability, opening behaviour, cohesion and stickiness of the fibre material, provides information on tendencies and influences resulting from different raw materials, allows accurate forecasting of yarn properties and their processability and enables cost-effective compositions of various fibre materials.

The QSS is applied in Quality Planning to predict yarn quality characteristics of ring and rotor yarns regarding appearance (black boards), hairiness, strength and elongation, to determine cleanability for raw material as well as gravimetric content of trash, dust and fibre fragments, including visual assessment of these disturbing particles, to simulate and optimize blends of different cotton types with regard to price and yarn properties.

The QSS is applied in Process Optimization to simulate an opening/cleaning line by determining the cleaning efficiency of a machine and by assessing cleanability behaviour, to optimize opening and cleaning equipment based on trash and dust content of processed cotton, to observe the formation of processing neps by several steps on the MDTA with subsequent testing of the sliver and to monitor quality of the carding process by direct spinning of production card slivers.

Further fields of application are trial spinning in the rotor sector by varying spinning components and parameters, production of colour-matching melanges of wool and synthetic fibres and spinning of man-made fibres to evaluate the effectiveness of spin-finish, the spinning properties and the occurrence of deposits.



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In Spinning Mills QSS is used to assist in raw material purchase, process controlling and quality management.

Ginners determine the cleaning effect of lint cleaners and evaluation of the ginning process to reduce seed coat fragments and very small pieces of trash in cotton bales.

Cotton Growers measure the influences of different harvesting methods, cotton breeds, etc... on the trash content before ginning.

Cotton Traders determine the trash weight proportion in a cotton bale and give recommendation to customers according to their specific needs.

Summary:

- The QuickSpin System enables the quick and simple processing of small raw material samples into yarn, to evaluate raw material quality prior to purchase
- It permits a proficient forecast of yarn characteristics, especially regarding yarn appearance and tensile properties (strength/elongation)
- It provides indication of the processability of the raw material
- The economical aspects of the QuickSpin System are focused in the field of selected raw material purchase, economical composition of mixtures and blends and machine setups

QuickSpin is an important and integral part of the raw material and quality management

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