E. Bröll

Ceramic fiber and yarn guide elements

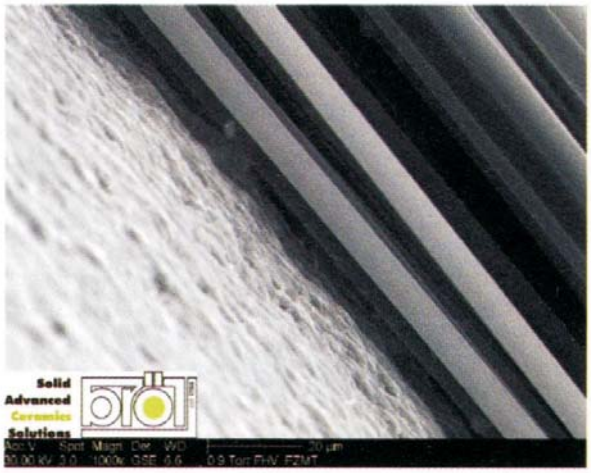
Ceramic yarn guide elements are an essential part of the overall package of a textile machine. Often, they are the only connection to a textile and need to transfer all forms of movement and changes of directions of the yarn or fabric. A single optimal surface specification does not exist. Rather, it is an endless process of optimization.

E. Bröll GmbH & Co. KG, Dornbirn/Austria, is a leading manufacturer of tribo-optimized ceramic fiber and yarn guiding elements for high speed textile machines.

Besides facts such as friction force, wear and friction contact temperature, or temperature difference from position to position, structural changes and its effects on the textile and through wear measurements are also considered. Particularly for the processing of monofilaments and rovings made from carbon and glass fibers, friction and wear resistant surfaces were developed: downtimes by start-up problems or through cleaning cycles are reduced; higher delivery speeds increase productivity. Nevertheless the textile-mechanical characteristics remain at the highest level.

The focus of new developments is on tribologically demanding, highly loaded fiber and yarn contacting components. ■

Contact areas of ceramic guide elements with a carbon surface



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