Optimized machine parameters for production of innovative narrow textile products

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Abstract

The narrow textile production processes, such as narrow weaving or braiding, are used for production of several technical products, which have to satisfy specific conditions.
This works presents first overview of different application areas of technical narrow woven products and their requirements.
Even produced on the same weaving machine, the different application areas requires completely different properties. After the overview of the specific requirements, analysis of the related to them machine parameters will be discussed. There are not many broad options for variations on the narrow weaving machine, so in any case specific solutions has to be founds, such as combination of reducing yarn tension, machine speed and optimization coatings of specific parts.

Keywords: process optimisation, narrow weaving, technical textiles

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