

TAILORED WARP BEAM FRAMES FOR RIBBON WEAVING



Greater system efficiency and higher fabric quality

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OVERVIEW

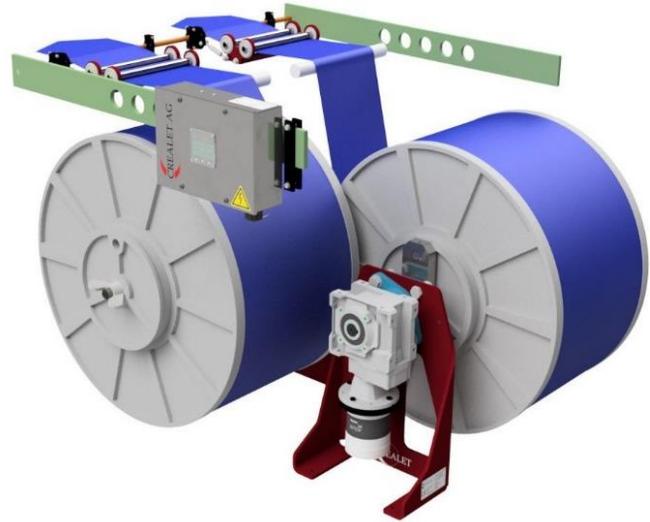
In the past, an electronic warp feed for ribbon weaving was rather difficult to implement, mainly due to the associated costs. Today, new manufacturing processes and methods enable cheaper solutions.

An electronic feed of the warp threads not only has a positive influence on product quality, it also reduces machine load and warp breaks.

With the electronic feed of the warp threads, warp beams with a larger flange diameter can be used, whereby the efficiency of the weaving machine can be increased.

FOR YOUR SPECIFIC NEEDS

We design and manufacture warp feeding systems according to your needs. Years of experience and expertise in this area as well as the cooperation with innovative partners speak for us.



INDUSTRY 4.0 AND THE INTERNET OF THINGS (IOT)

Industry 4.0 and the Internet of Things (IoT) are challenges that we face now and in the future.

We realize solutions that precisely and quickly synchronize the thread tension of different warp beams and link them together in an intelligent system combination.



WARP THREAD FEEDING SYSTEMS

For weaving from sectional warp beams or creels, we develop and manufacture warp feeding units for the Narrow Weaving Industry. We offer creels and warp beam frames according to your needs and wishes.

LT-CONTROLLER

Warp tension control



The new warp let-off controller is designed to control the warp tension on smaller warp beams used on ribbon looms. The controller is available for one or two axes. CANopen and EtherCAT are available to ensure fast and secure data communication.

Application of the warp let-off control

In narrow weaving, the demands on a controlled warp tension are becoming increasingly important. The manufacturing process of textiles, used in safety-critical environments, as automotive and medical applications, must be safe and traceable. On the one hand, these devices can be operated completely autonomously by the loom or, on the other hand, they can be integrated into a network. The device specific data, parameters, functions, programs (start, stop, set-up mode, warp tension, tension display and error behavior) can be exchanged via CANopen.

LOAD-CELL

CANopen

The CANopen protocol is a standardized protocol for the CAN bus and is mainly used for networking devices within complex systems.

EtherCAT

Short cycle times and very accurate synchronization are its features. Continuous data communication with CANopen is possible based on uniform profiles.

Warp tension control by load cell



Warp tension measuring by load cell. No springs have to be adjusted. Tension value visible on a display.