

ELECTRONIC CONTROLLED ROPE ECR

DESIGNED TO AUTOMATICALLY REGULATE THE ROPE BRAKE

OVERVIEW

On ribbon weaving machines, rope brakes with weights are used to set the warp tension, requiring regular adjustments as the warp beam diameter decreases.

The warp let-off ECR is an electronically controlled rope brake that automatically adjusts the rope tension, ensuring constant warp tension across the entire beam and optimizing production efficiency.



KEY ADVANTAGES

- Cost-effective and budget-friendly solution
- Reducing labor costs and enhancing production efficiency
- Streamlining warp tension adjustment
- Ensuring consistent reproducibility
- Visualization of the warp tension
- Maintaining uniform warp tension from full to empty beam



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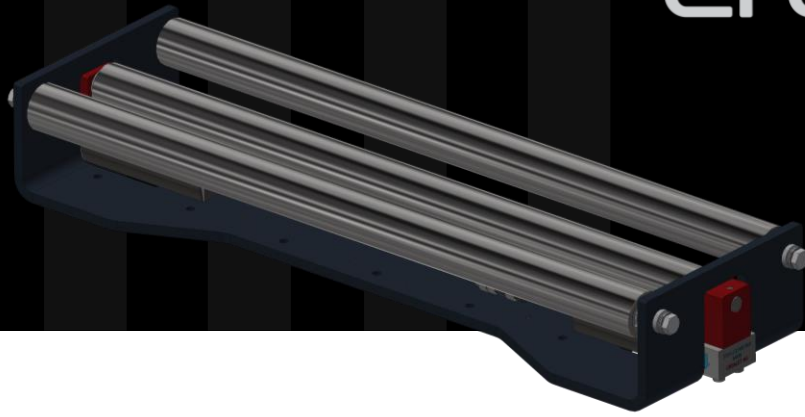
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WARP BEAM ELECTRONICALLY BRAKED

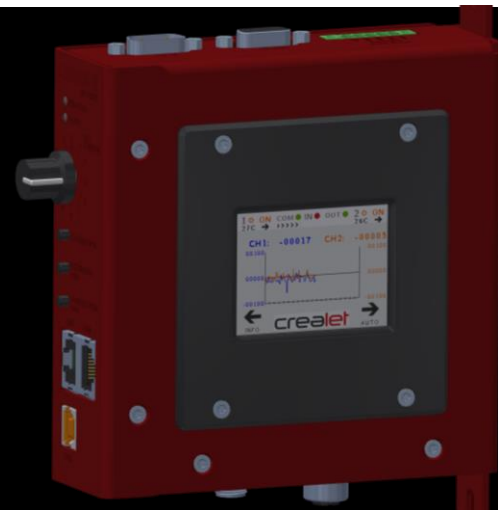
By retrofitting existing rope brakes with the ECR control unit, a sophisticated system is created that automatically adjusts the warp tension during the weaving process. The current warp tension is continuously monitored using a load cell, and the braking force is dynamically regulated by adjusting the rope tension with a cylinder. This precise adjustment ensures uniform warp tension, maintaining consistency from the full to the empty bobbin, which is essential for ensuring fabric quality throughout the production process.

The core principle behind the KAST ECR system is the realization that the warp beam does not need to be actively driven in order to maintain the constant tension. The warp beam only requires braking, simplifying the entire process and improving energy efficiency by eliminating the need for continuous mechanical drive.

The warp tension can be easily monitored on intuitive user interface of the ECR control unit in real time. Weavers will appreciate that the constant adjustment of weights and manual adjustment is no longer required and reducing the likelihood of errors.

The KAST ECR has been engineered to enhance fabric quality and productivity. This new automatic warp tension control system for ribbon weaving machines offers additional benefits, such as reducing labor costs by simplifying warp tension adjustments and ensuring reproducibility.

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SOLUTION FOR PRECISE WARP TENSION
AND SUPERIOR TEXTILE QUALITY!



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