

crealet

■ CUSTOMIZED WARP SYSTEMS

WARP BEAM IN HIGH POSITION



For single, twin and multiple warp beams

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OVERVIEW

Warp beams in high position for single, twin and multiple warp beams can be provided for different weaving machines.

These systems are used mainly for top quality casual leisure wear and fashionable accessories for men, women and children.

A further application is for when beams are quickly woven out, in which case an additional warp beam on top of the weaving machine can make the weaving process more efficient and economical.

KEY ADVANTAGES

- longer warp running times
- higher plant efficiency
- lower weaving costs
- higher fabric quality



FASHIONABLE AND FANCY FABRICS

Weaving fashionable, fancy fabrics usually creates a specific design or characteristic structure in a fabric due to specialty or extra yarns creating slack in the tension or structure factors.

The weaving process in general and weaving of fancy fabrics in particular is strongly influenced by the warp thread tension. In order to obtain good fabric quality with smooth running of the weaving machine, the optimization of the warp thread tension is necessary.

A warp beam in high position is needed when using two thread systems and there is a need for different weave in. For example, true seersucker is made with stripes of high-tension yarn and stripes of yarn with a much lower tension.

Another example is when two layers of cloth are woven and one layer is advanced to form pleats. Piqué is another example of when two beams are needed.



INSTALLATIONS

ENLARGE WARP CAPACITY

In the case of fabrics that are woven in large quantities over a lengthy period and where the lower warp beams are quickly woven out, splitting the warp onto two beams can make the weaving process more efficient and economical. The longer the length of the warp extends warp running time, and reduces downtimes and the frequency of warp beam changes. It is an excellent opportunity to enhance productivity and competitiveness.

TECHNICAL EXECUTION

The warp beam in high position is designed for standard warp beam tubes with a diameter of 150mm to 270mm, a warp beam flange of up to 1250mm and for a weaving width of 120cm to 540cm. The warp beam support on the unit is available for all key warp beam end pieces like square holes, shafts and EURO type. Loading capacity can go up to 5000kg per warp beam, e.g. for PP fabric.

BACK REST ROLLER

The correct function of the warp beam in high position depends on various parts. The back rest roller is one of them, as it adjusts the warp tension and acts as tension measuring for the electronic let-off controller. Furthermore the back rest roller motion is important for improving the efficiency of the weaving process, especially when the weaving machine's speed is increased. Weak and low twist yarns need a back rest roller with a low mass and a back rest roller with a highly rigid body is needed for heavy warp tension. The surface treatment is also important for the warp yarns and therefore affects fabric quality.

