



CREALET: Manufacturer of Electronic Warp beam drives for wide and narrow weaving machines

CREALET AG is one of the leading suppliers of technically high-rated engineering solutions in the weaving sector for warp beam control and for the winding and unwinding of nonwoven and woven materials.

The successful weaving of technical textiles calls on one hand for know-how and innovation, but often also for a creative warp feeding system. For years already, Crealet has been a strong and reliable partner for customer-specific solutions in this field.

CREALET offers solutions for the entire sector of weaving technical fabrics. This includes:

- ❖ Controlled warp let-off and cloth take-up.
- ❖ Warp beam support in high position for full-width and twin beams.
- ❖ Warp beam frames behind the weaving machines.
- ❖ Warp feeding systems for weaving from bobbin creel.
- ❖ Controlled selvedge let-off devices.
- ❖ Wind-up units for tire cord fabrics.

Thanks to a long experience in design and manufacture of standard and special executions, Crealet is able to offer the appropriate system for every application.

Warp beams in high position on projectile weaving machines



Warp beams in high position on projectile weaving machines.

Crealet manufacture warp beam installations in high position for full and half-beams on projectile weaving machines. The warp beams are motor driven and thereby ensure a constant thread tension from the full to the empty warp beam. The thread tension is measured by means of load cells or analogue sensors. The warp is delivered to the shed over a deflecting roller and a tension beam. Different tension beam types are at hand in order to meet all requirements for light up to very heavy articles.

Needle weaving machines

On needle weaving machines, depending on the width, several ribbons are woven. The warp threads are delivered to the individual warp sections either from warp beams or from yarn creels. For the weaving from warp beams, the company has different electronic warp beam drives available for use depending on the respective application. In order that warp tension can be balanced, when using several warp beams, an optional permanent thread tension measuring device is available.



Needle weaving machines.

Crealet develop and manufacture also warp beam racks for the placing of warp beams. For the weaving of safety belts they supply warp beam racks for wide beams which are positioned at an angle of 90 degrees to the weaving machine. The warp threads are deviated to the

respective ribbon width by means of an eyelet board. This eyelet board, furthermore serves to generate the thread tension, and with the positioning the electronic control of the warp beams takes place.

Controlled thread bobbin for the weaving of trade labels & written characters



Controlled thread bobbin for the weaving of trade labels and written characters.

The weaving-in of a trade mark symbol has the purpose to set off the own product against those of the competition or to differentiate the own company from competitors. For the customers, trademarks facilitate orientation in the market. The weaving-in of trade labels also provides a visual identity, which in its appearance makes part of corporate identity. Electronic Jacquard machines are suited particularly for the weaving-in of individual written characters into selvedges and on fabrics in the most different applications. To make it possible to produce such weaving-ins free of distortions and with exact pattern repeat lengths, Crealet recommends to take figure threads of other color, yarn count or other material on a bobbin with separate electronic control. Same can be positioned behind the heald frames on the weaving machine.

Weaving from Warp beam frame

In case of fabrics which are woven in large quantities over a lengthy period, and where traditional warp beams are quickly woven out, warp beam frames are ideal for making the weaving process more rational and economical.



Weaving from Warp beam frame.

A warp beam frame with electronically controlled motor warp let-off, and arranged separately from the weaving machine, allows long warp running times and constant warp tension. At the same time shorter machine standstill times lead to enhanced plant efficiency. Warp beam frames bring benefits mainly at short warp running times when labor savings make the investment pay off within a short time. The benefits with warp beam frames are given as under:

- ❖ higher warp running time.
- ❖ higher plant efficiencies.
- ❖ fewer personnel needed.
- ❖ lower weaving costs.

Courtesy: CREALET AG, Switzerland. ◆