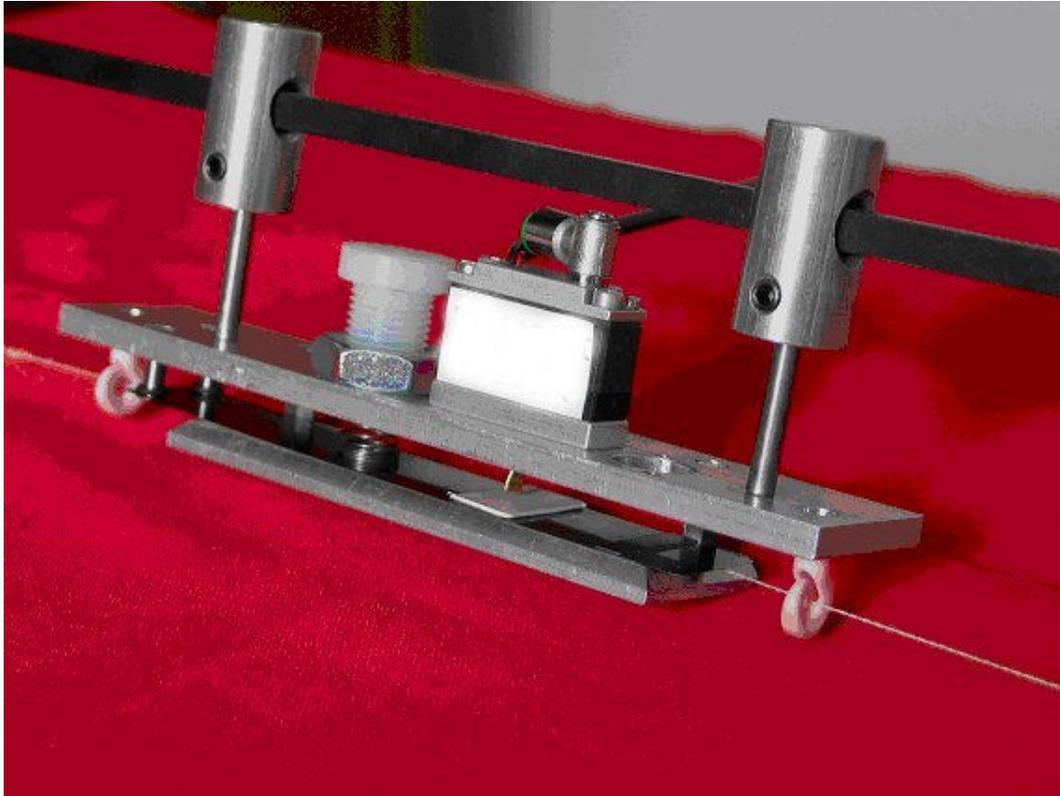


Electropneumatic positive weft brake

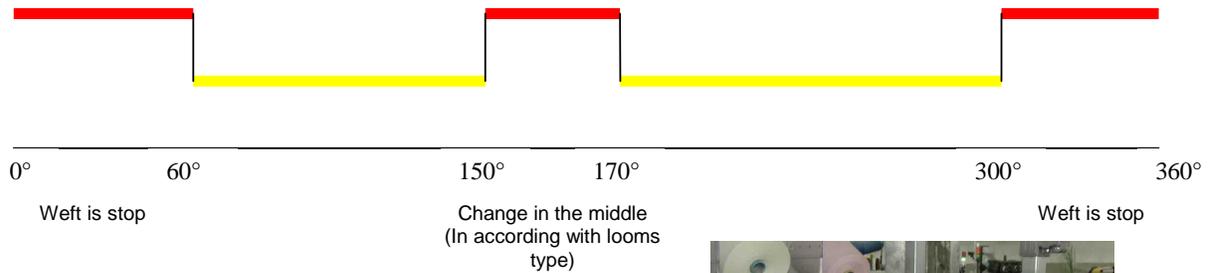
The main feature of the system is to allow the weft brake only in those points where it is really requested

In this way the remaining portion of the inserted weft is subject only to a minimal tension.



Advantages compared to traditional weft brakes

- Less weft breakages therefore less loom stops – increase of loom efficiency and fabric quality
- Increase of loom speed
- Setting can be recorded so that is possible to reproduce the same situation whenever requested
- The setting of this yarn brake cannot be altered even by mistake
- The system does not require maintenance and can be converted into negative brake if requested
- This brake can be installed on all existing rapier looms
- It does not require any mechanical or electronic modification
- The only things required are an electric plug and compressed air
- It is very economic



 Area where the weft is controlled

 Area where the weft is braked



The areas with higher brake effect are during central weft exchange (approx. 150° up to 200°) and in the weft release (approx. 300° up to 60°)

- The weft once released from the rapier is kept under tension, along with all the other weft, up to 60° when the weft cutting take place
- The insertion of the weft into the brake is done without any drawing-in hooks
- The brake effect into the controlled areas is done by means of an electrovalve which is controlling the brake area



- The brake effect can be set for each weft by means of a pressure meter
- The driven area can be controlled according to customer 's request
- The electrovalves are controlled by dedicated pc board (independent from the loom and from weft feeders)
- The weft brake is working with compressed air at a pressure between 3 and 5 bar
- The system can work in a positive way with electropneumatic drive and also in a negative way. In this case it is working in a similar way like mechanical weft brake with the difference that the brake action will be much more sensitive compared to conventional brake system

