Gebr. Klöcker
Industrial Mechatronics

Klöcker Propeller Leno® CAN-Bus Version (PL-CAN®)

The Klöcker Propeller Leno® CAN-Bus version creates on weaving machines a frame independent mechatronically controlled strong and optically attractive full-cross leno binding in the fabric and/or waste selvedge on a two-thread basis.

The sophisticated design is characterized by

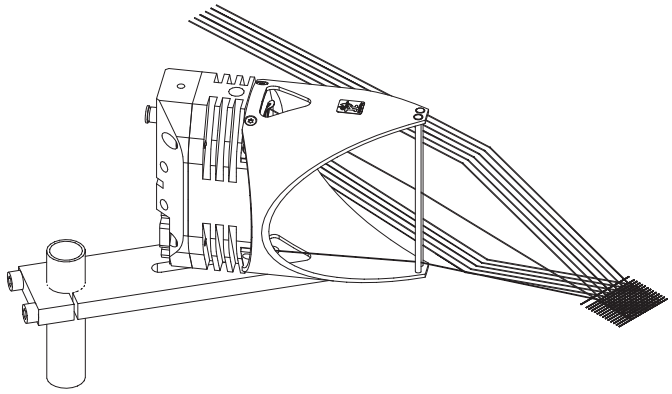
- a full-cross leno selvedge on a two-thread basis
- frame independence with customized selvedge formation sequences
- an electronically controlled, unrivaled long duration of the shed opening
- the potential to pull off even finest leno threads from large bobbins, with patented automatic leno yarn control
- the long-term realization of highest speeds with the possibility to bind leno fabric and waste selvedges simultaneously
- support of Quick Style Change functions
- a minimum number of movable parts with simultaneous fully integrated maintenance-free electronic on SMD-basis
- low operating costs because of high resistance to wear
- landmark user-friendliness

The installation of the PL-CAN® is especially efficient for high and top weaving machine speeds on insertion systems of choice. The CAN-Bus version allows user-friendly parameterization via the console of the weaving machine, whereas the power supply is realized by means of the corresponding switch cabinet. Moreover, the integrated patented leno yarn control in the front shed guaranteeing a precise and minimized reaction time without any mechanical auxiliary devices is a further advantage.

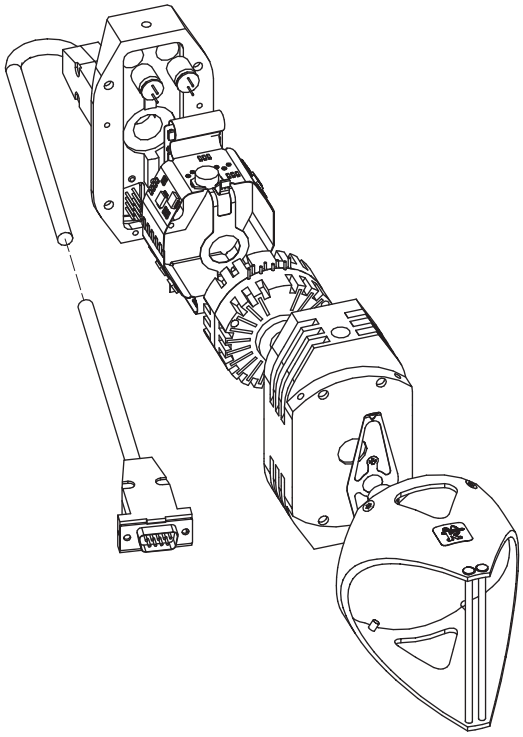
To guarantee a trouble free function of the Klöcker Propeller Leno® CAN-Bus version, indispensable components are

- the Klöcker cross leno cone creels with variable fastening devices for two bobbins and
- the Klöcker Propeller Leno® threading aids.

They make up the Klöcker functional unit.



PL-CAN® in 100 mm version
for weft side installation



Structure of PL-CAN®

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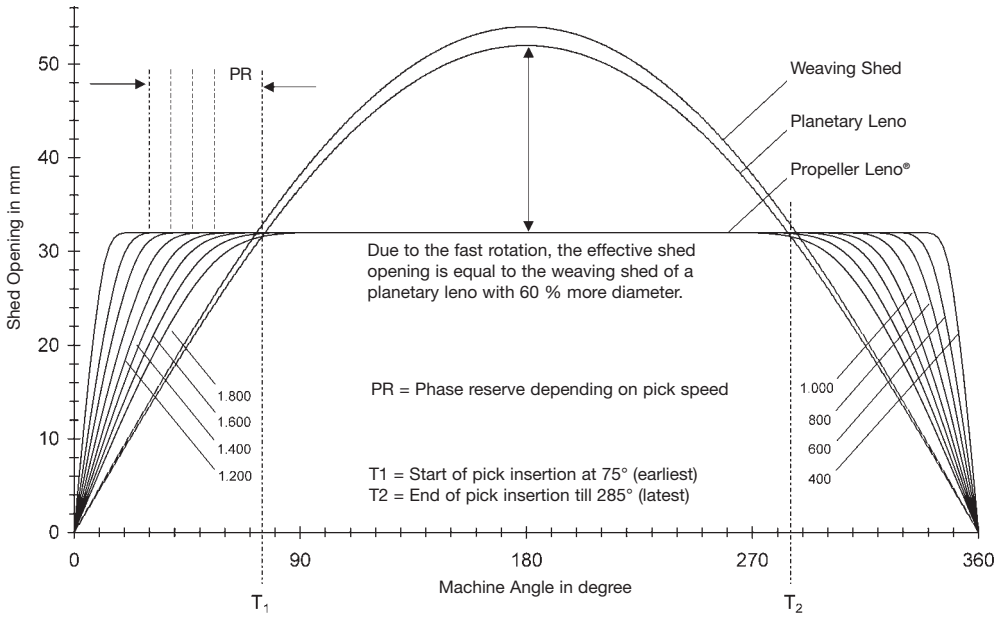
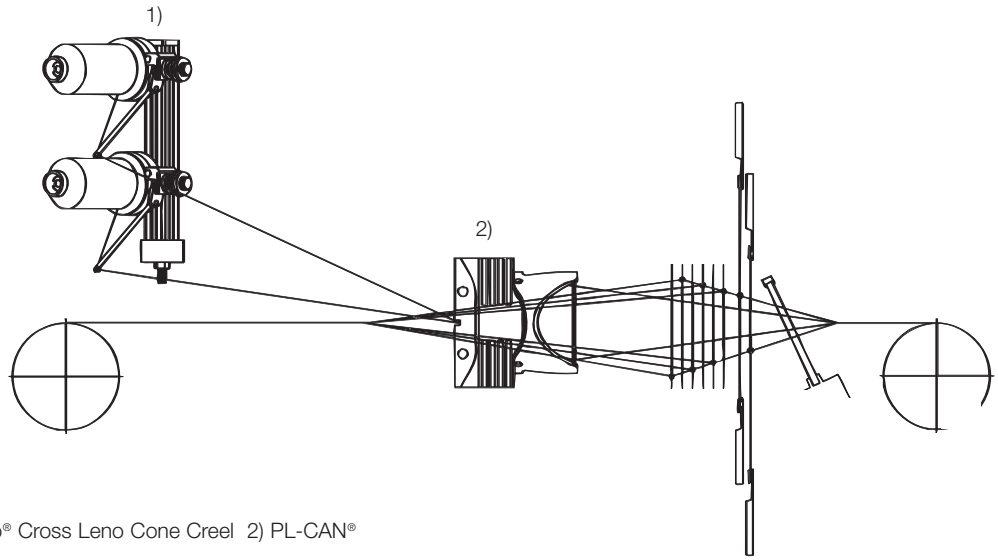
The PL-CAN® is a dynamic system for selvedge binding. Through a rotating patented propeller with one leno yarn at each end, the shed opening necessary for the weaving process is achieved, whereby the rotation direction is reversed after a number of picks which can be predetermined according to individual option and weaving needs in order to undo the twistings in the rear shed of the weaving machine. In contrast to conventional systems, the PL-CAN® runs synchronously with the weaving machine, but not continually. Moreover, the Propeller Leno® turns suddenly, in about 20 milliseconds, from a vertical standstill position by 180 degrees and remains in this new position for a relatively long time before it is turning again.

Shed Geometry on Air-Jet Weaving Machine



The Klöcker Functional Unit



1) Klöcker Propeller Leno® Cross Leno Cone Creel 2) PL-CAN®

We reserve the right to technical modifications without prior notice. Particulars on speed are exclusively based on the use of the Klöcker functional unit. Drawings indicate only characteristic features.
Detailed information and individual consultation via our hotline – Please contact us!

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