



◀ **Dobby “DISCO”**

The DISCO dobby is a Direct Individual Servo Controlled dobby with a modular build up in 12 mm pitch. Each frame has its own servo drive, which gives it close to endless possibilities, such as adjustable start time, adjustable stroke and “relax” pattern at stop.

The frames are operated from below and connected via quick connectors to allow quick warp changes. The build-up is very clear and easy to overview and since it is a modular system, additional frames can be added afterwards. The entire unit is designed for minimum maintenance. *(Patented.)*

Edge cords ▶

Complete set-up of edge yarns, including creel, brakes, twistors and roll up. *(Patented.)*



Technical data

Dimensions:

Total machine width
Total machine height
Total machine depth

*weaving width + 7,2 m
2,1 m
6,2 m incl. weaver’s bridge, wind-up and two warp
beams with section bobbins diam. 800 mm*

Warp tension:

Max. warp tension
Max. beat-up tension

*1500 kg/m
3000 kg/m*

Harness frames

Up to 56 harness frames in 12 mm pitch

Heddle length

*1-36 frames 13” (330 mm)
37-48 frames 15” (380 mm)
49-56 frames 17” (430 mm)*

TEXO is one of the worlds leading manufactures of weaving machines for the production of paper machine clothing. Our goal is to increase the value and profitability of our customers’ business with the help of customized products and comprehensive service.

Since our founding in 1946, we have developed, designed and supplied over 1,000 weaving machines. This represents two-thirds of all the weaving machines on the world market.

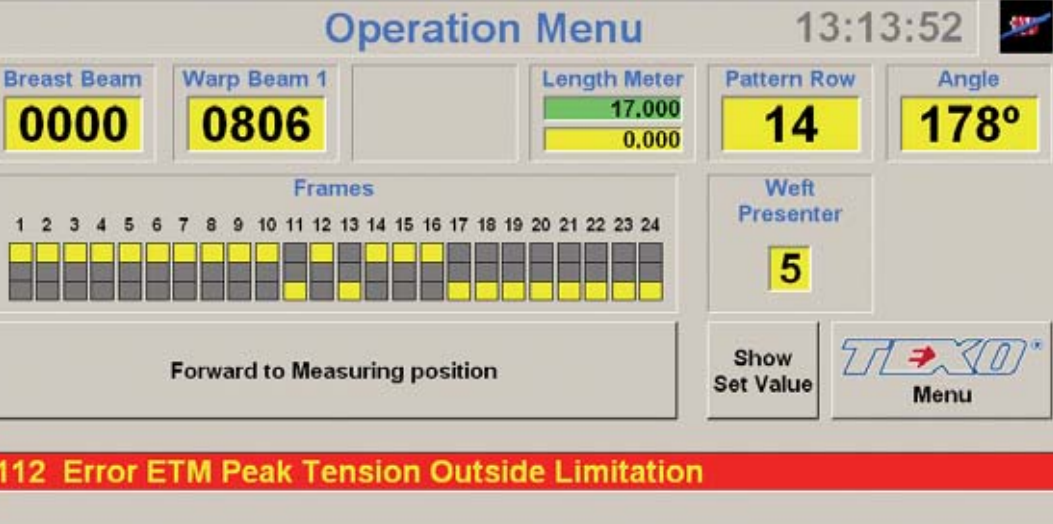
TEXO’s headquarters and manufacturing facilities are located in Älmhult. Sweden. Our subsidiary, TEXO Inc. in Greenville, USA, is responsible for sales and support in North and South America.



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FormStar
FSR



Load Cell
Warp tension measuring is carried out over a load cell arrangement, installed between the lead rolls. The warp yarns always maintain a constant angle against the load cell regardless of the warp diameter.



Wind-up
Three-beam wind-up system driven by a torque controlled motor in order to maintain a constant pull.

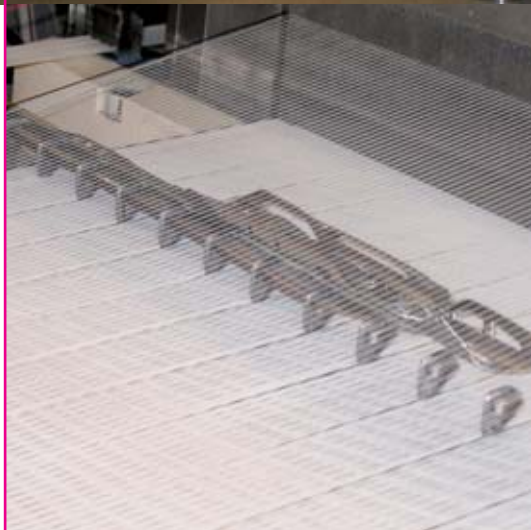


Control System "LoCoMo"
Omron loom control with a touch screen is mounted on the handrail, on one side of the loom. The user interface is a WINDOWS based program made to be very easy to operate. Electrical cabinets placed on

the foundation on each side of the loom. This dispenses with the need of cable channels and so on in the floor.
FormStar is built in compliance with EC-directives for machinery, low voltage and electromagnetic compatibility.



Frame and foundation
The whole loom sits on an I-beam foundation, which dispenses with the need of any foundation work on the floor. The foundation is filled with concrete to make it very heavy and stable. Each frame module contains 2-3 loom sections. All in order to speed up the installation time. (Patented.)



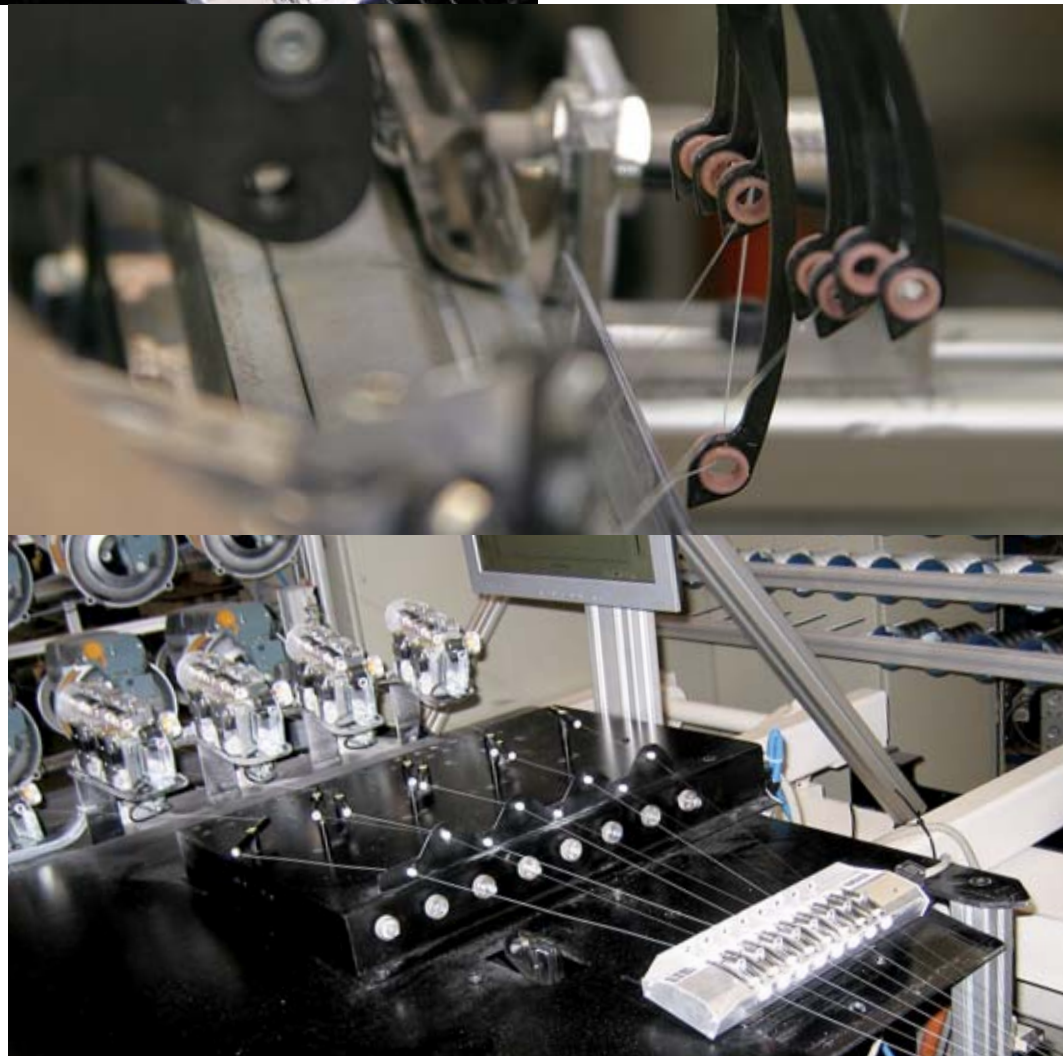
Hooks
Hooks mounted on a separate cam driven beam which moves in position at time for the weft insertion.



Warp Beam
The warp beam/beams are driven by AC servo. The warp beam parts are carried on support rolls.
The lead rolls are non-rotating and chromium plated with short distance between warp beam and beat-up. The lead rolls are designed to be easily dismantled at warp drawing in.



Weft insertion
AC-servo driven double side middle transfer band rapier for up to 12 weft yarns from left hand side of the loom. Weft presentation through TEXO:s patented Pozi-Grip function. The drive unit for the rapier bands stationary mounted to the loom frame and is separated from the lay beam. Weft tension monitoring system type TEXO TWTS, including Eltex ETM load cell and IRO TEC brakes. Electronic adjustment of the weft tension through recipe. Weft stop motion, average tension, peak tension and double weft protection are some of the built in supervisions. Prespoolers type IRO Chrono X2. (Patented.)



Main Drive
Variable main drive where the speed on the loom can be optimized during one revolution allowing the right combination between speed and quality to be established.
Double drive over separate gearboxes placed inside the loom over a synchronising shaft. (Patented.)



Take-up System "TRIBUTE"
A complete new thinking to operate the three take-up beams gives you the possibility to compensate for different speed on top and bottom layer in the fabric.
The upper- and bottom take-up beams are separately driven with AC servo.
The intermediate beam is mechanically connected to the bottom beam.
The intermediate beam is opened and closed by pneumatic cylinders.
Fixed breast beam and breast beam bar of sword type. (Patented.)