



CompFelt



Dimensions and data

Dimensions

Total machine width: Weaving width + 6,9 m
 Total machine height: 2,6 m incl. 300 mm steel frame, machine pad.
 Total machine depth: 5,2 m incl. weaver's bridge, wind-up and one warp beam with section bobbins diam. 720 mm.

Warp tension

Max. warp tension: 1500 kg/m
 Max. beat-up tension: 3000 kg/m

Harness frames

24 harness frames in 20 mm pitch.

Total length: Weaving width + 400 mm
 Total height: Max. 824 mm at 620 mm heddles
 Max. 884 mm at 680 mm heddles (24 harness)



TEXO is one of the world's leading manufacturers of weaving machines for the production of paper machine clothing. Our goal is to increase the value and profitability of our customers' businesses 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.



TEXO AB
 Box 602
 SE-343 24 Älmhult
 SWEDEN
 Telephone: +46 476-560 00
 Telefax: +46 476-560 90
 E-mail: sales@texo.se

TEXO INC.
 P.O. Box 12115
 Greenville, SC 29612
 USA
 Telephone: (864) 848-9023
 Telefax: (864) 848-9031
 E-mail: sales@texolooms.com

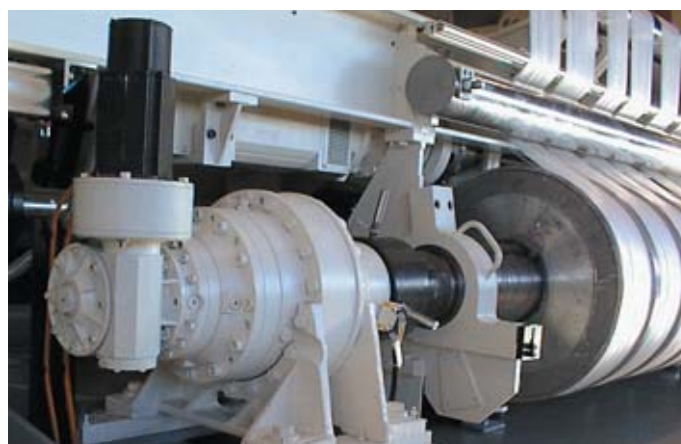




Control System "LoCoMo"

Omron loom control with touch screen mounted on the hand rail, one on each side of the loom. Electrical cabinets placed on the foundation on each side of the loom.

CompFelt is built in compliance with the EC-Directive for machinery, low voltage and electromagnetic compatibility.

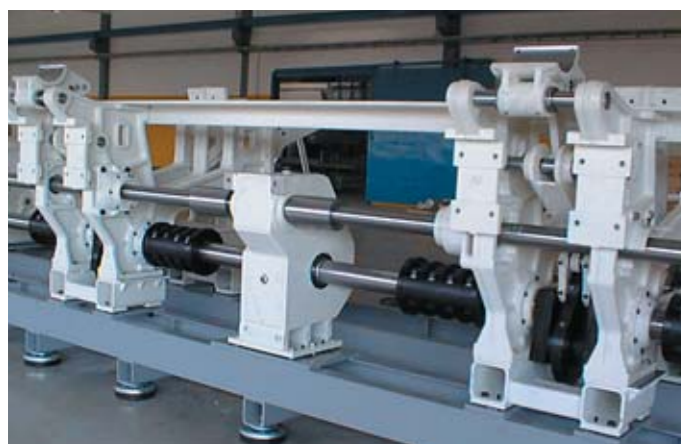


Warp Beam

The warp beam/beams are driven by AC servo. The warp beam parts are carried in bearings.

This means simpler dismantling for a warp change and a very stable warp beam fixed in its bearing.

Whip roll and lead roll are non rotating and chromium plated. Short distance between warp beam and beat-up.



Frame and foundation

CompFelt is built in sections with modules of 2,5 metres. The steel frame is divided every 5 metres which means that the loom is delivered in modules with 2 sections mounted on each frame part.

The loom frame is adapted so that the modules will fit into a standard container on delivery.



Load Cell

Warp tension measuring is done over a load cell arrangement, installed between whip roll and lead roll, with the width of a sectional bobbin.

The warp yarns always have a constant angle against the load cell regardless of the warp diameter.



Picking System

High speed picking type THS-BC with a soft start function. Maximum speed of 30 m/s.

Shuttle boxes with membrane brakes and 4 cells running in linear bearings.

Servo shuttle brake.

Pneumatic shuttle box motion.

Built in drop box function movable to different weaving widths.

Patented.



Take-up System "TRIBUTE"

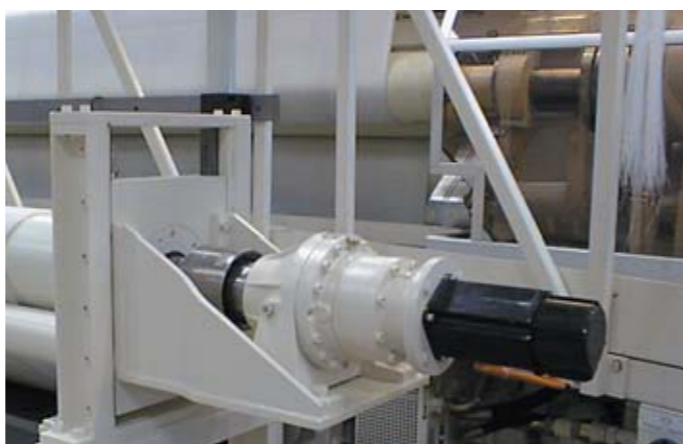
A complete new thinking to operate the three take-up beams gives you the possibility to compensate for the different speed on the top and bottom cloth that sometimes occurs when weaving endless felts.

Upper take-up beam is separately driven with AC servo.

Bottom beam is AC servo driven and mechanically connected to the intermediate beam.

Intermediate beam is opened and closed by pneumatic cylinders.

Patented.

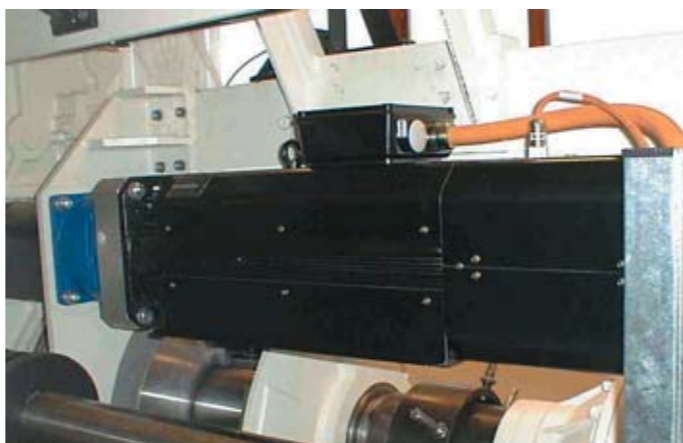


Wind-up

Three-beam wind-up system.

The two lower rolls are free rotating.

Upper roll is AC servo driven and the whole drive follows on guides when the diameter on the upper roll increases.



Main Drive

Variable main drive where the speed on the loom can be optimized during one revolution to find the right combination between speed and quality.

Double drive over separate gear boxes placed inside the loom over a synchronizing shaft.

Patented.



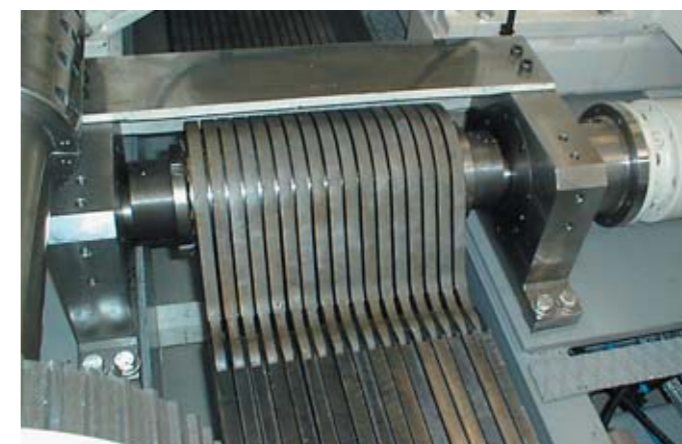
Dobby "MONOCAM"

Closed shed dobbie for 17 harness frames in 20 mm pitch, operated from bottom only. With a noise level of maximum 70 dB only.

The inside mechanism is oil bath lubricated.

The whole design is made for minimum maintenance.

Patented.



Shed Geometry

HiLo, our system to compensate for heavy and light shed gives a new dimension to achieve a clean shed opening for every pattern row.

The compensation of max +/- 20 mm is programmed through the computer.

Patented.



Safety

Transparent tunnel guard over the shuttle race and over the entire picking system. Light guard over breast beam and behind whip roll. Cover in front of picking system and covering the take-up drive.



Automatic Pirn Changer "TAPICS"

The automatic pirn changing system is capable of handling 4 different yarns and maximum 40 pirns of 420 mm length. Ultrasonic welding of weft yarns. The weld is randomly spread in the fabric.

Easy to load new pirns during weaving.

The automatic pirn changer gives you a fully automatic loom with uniform production quality and high reliability.

Patented.