**Technical data**

Dimensions:
- Total machine width: 5.5 m
- Total machine height: 4.5 m incl. foundation
- Total machine depth: 6.0 m incl. weaver's bridge, wind-up and line warp beam

Warp tension:
- Max. warp tension: 1500 kg/in
- Max. beam-up tension: 3000 kg/in

TransCent is a high-speed forming loom developed by TEKO, who is one of the leading PMC loom manufacturers. TransCent is developed from very well known technology such as, e.g., basic paper with its "POD-GRIP" system, TEKO "TEKOC" Dobby system, our Lean Central system "L3E-Link", and many other high "tech" features developed by TEKO through many years of experience in the industry.

TEKO 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’ 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 over the years. TEKO’s headquarters and manufacturing facilities are located in Århus, Sweden. Our subsidiary, TEKO Inc. in Greenville, USA, is responsible for sales and support in North and South America.
Frame and foundations
TEXO's sophisticated frame platform is mounted on a purpose-built foundation designed for installation on " KvF " floors. The concrete foundation provides a very stable base for the frame. Each frame module is adapted to fit in a standard height range. It is also possible to give our customers a cost-effective investment.

Drive and lay movement
TransCent is driven by a frequency-controlled AC motor and an Mergenthaler (M) drive system through heavy-duty gears placed on the side frame between intermediate sections. Lay motion is achieved via a cam drive and single-point action of lay swords. Lay beams are supported on each lay sword section.

Warp beam arrangement
Warp beams of the design have maximum evacuation to 3 prox beams. Warping beams are located on the upper end of each of the warp beams. Each beam is supported on a separate bearing assembly and hinged at the top and bottom. The warp beam is driven by a separate motor, which means in position at the time of the warp movement. The warp beam is mounted on a separate beam, which moves in position at the time of the warp movement. The warp beam is driven by a separate motor, which means in position at the time of the warp movement.

Control system
The control system is controlled by TExO's textile control system with Direct PC. The control panel is located centrally and the frame is powered on delivery. The user interface is a Windows-based program made to be very easy to operate on an industrial PC with touch screen, including Windows software API compatible. Fully integrated water-cooling system for electrical cabinets and AC drives. The system is designed in compliance with EC directives for machinery, low voltage and electromagnetic compatibility.

Take-up system
The TransCent take-up system is designed for different speeds of top and bottom layers in the fabric via separately driven AC servo motors. Upper roll 2 is supported with captive roll for one solid roll surface to achieve better friction and for that higher quality to the fabric. Intermediate and lower rolls are driven together via separate AC servo drives. Intermediate beam is pneumatically operated for opening and closing. Breast beam is fixed and breast beam bar is of sword type.

Warp insertion
Warp insertion is driven by a double side transfer belt. AC servo motors are mounted on a separate beam, which moves in position at the time of the warp movement. The system is designed in compliance with EC directives for machinery, low voltage and electromagnetic compatibility.

Dobby
The Dobby system is a direct drive, powered by a DC motor. The frame is driven by a DC servomotor, which gives it close to infinite possible patterns, such as adjustable start time, adjustable stroke and "dwell" pattern at zero. The frame is made of a modular system, additional frames up to a total of 56 frames, can be added to the system. The entire unit supports the creation of a new frame position and visualization at a touch.”

Edge cords
Complete set-up of edge paces, including cord, stones, twinnings, and roll up.

Winding
Winding is controlled via a textile control system with Direct PC. The control panel is located centrally and the frame is powered on delivery. The user interface is a Windows-based program made to be very easy to operate on an industrial PC with touch screen, including Windows software API compatible. Fully integrated water-cooling system for electrical cabinets and AC drives. The system is designed in compliance with EC directives for machinery, low voltage and electromagnetic compatibility.

Weaver’s bridge
The woven fabric is cut to the desired size and shape. A handheldied, computer-aided, programmable cutting machine is used to cut the fabric. The fabric is then packaged and shipped to the customer.”

Subject to change in construction.