

# Tess 440

## Wire guided tension blind

- Automated, retractable sun screening system
- Suitable for vertical and horizontal external applications
- Maximum daylight under dull conditions
- Reduced heat gain and glare on sunny days
- Integrated radio control operation
- Wireless connection to sun and wind controls (optional)



### Application

The TESS range of shading systems has been developed to satisfy the demand for retractable sun screening on horizontal and sloping glazing. They are designed primarily for commercial buildings such as offices, shops, hotels and airports as well as glazed structures such as conservatories, winter gardens and restaurants.

### Control

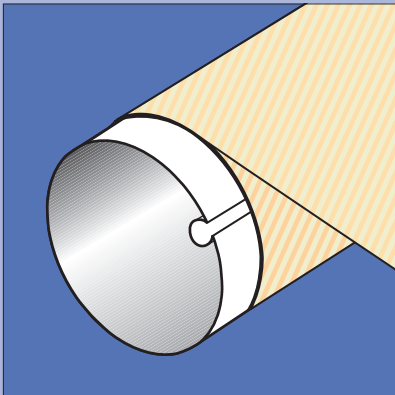
Each unit has a built in Simu motor with the option of an integrated radio control for convenience in operation and simplified wiring. Group and automatic sun and/or wind control are available on all systems. If the wind speed exceeds 11 m/s the blinds should be fully retracted.



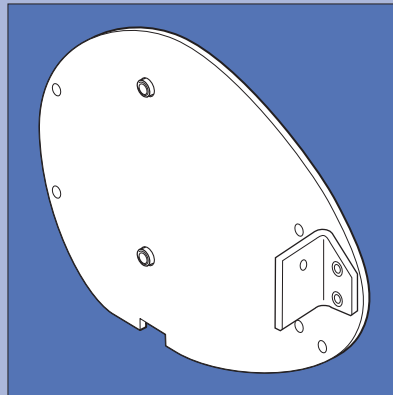
### Operation

The TESS 440 tension blind mechanism is suitable for rectangular fabric shades which are installed externally in front of or above the glazing. It can also be used for vertical applications where the fabric is pulling up from the bottom.

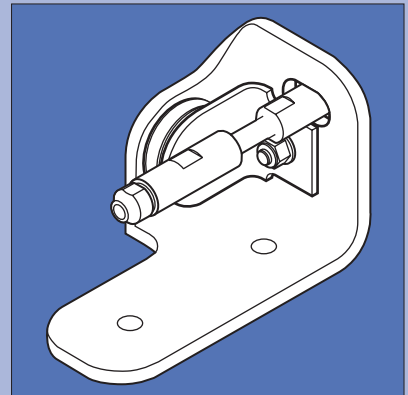
The fabric is held under tension through-out its travel and can be stopped in any position. A stainless steel wire acts as both a guide and a restraint for the aluminium hem bar and eliminates the need for relieving rollers or other forms of intermediate fabric support.



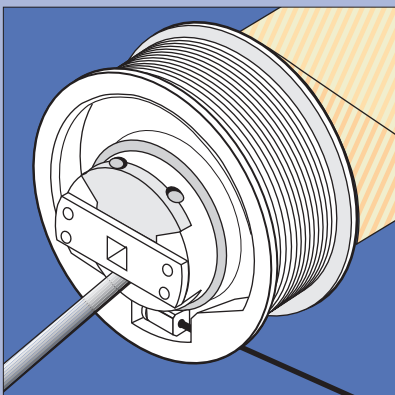
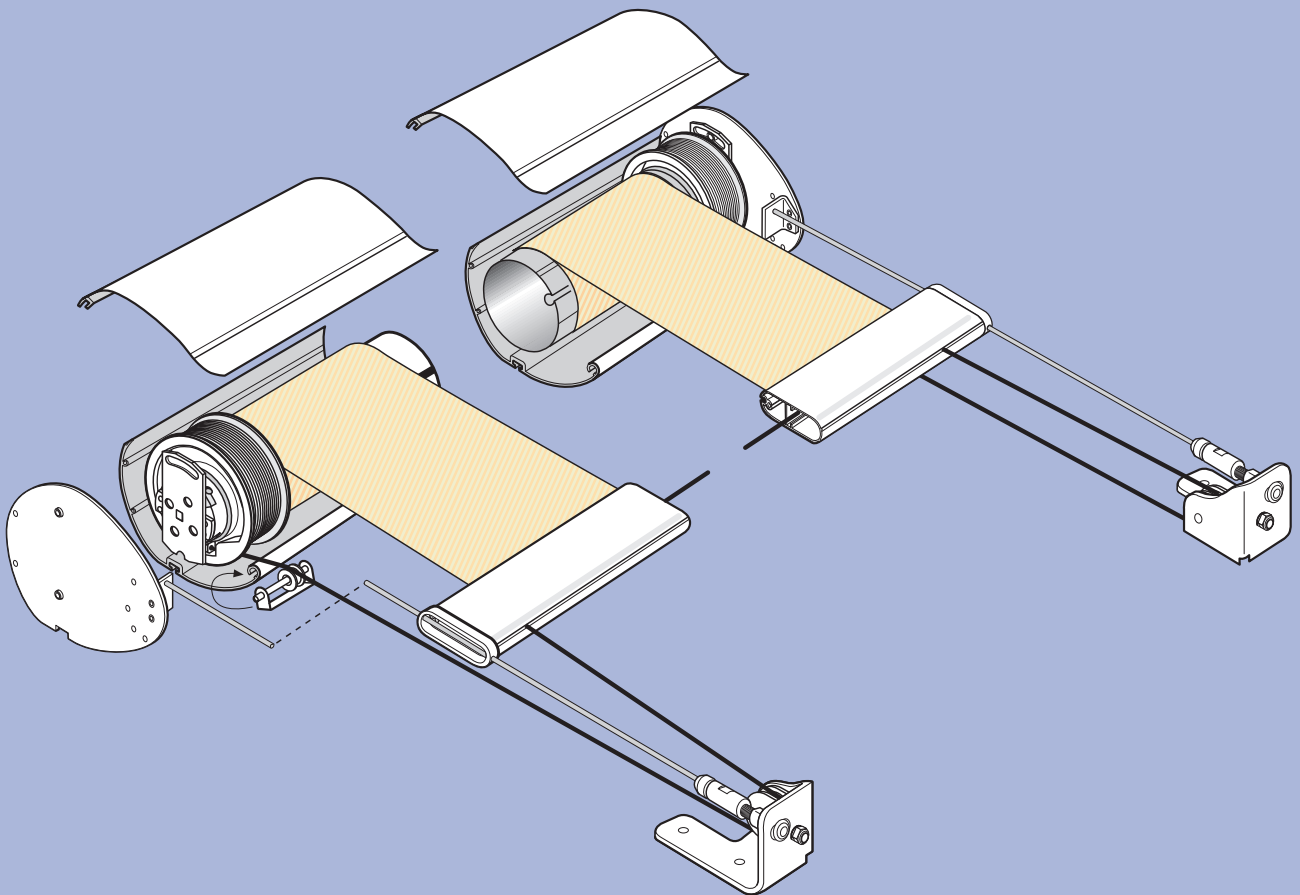
Fabric roller



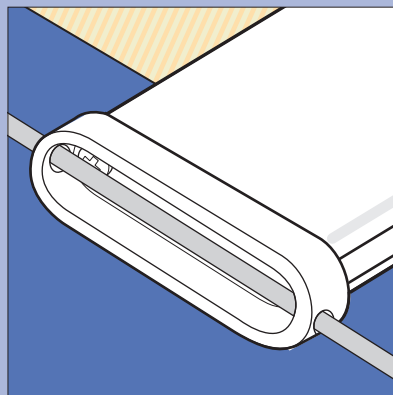
Roller end plate



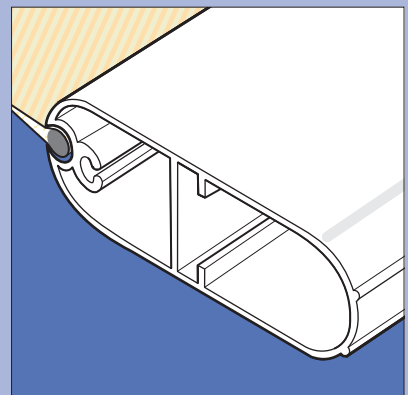
Return pulley bracket (single)



Motor with cable spool  
(without mounting plate)



Hem bar end cap



Hem bar

**Tension blind system comprising:**

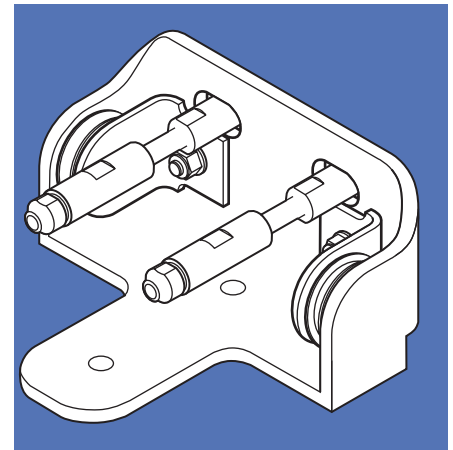
- A single 85mm galvanised steel roller incorporating both the drive motor and the spring compensation cassette with integral tension adjustment gear
- Extruded aluminium hem bar supporting the free end of the fabric carried by two 5mm dia stainless steel cables
- A continuous nylon coated tension cable to deploy and retract the blind by means of two 6.5m capacity cable drums, one on either end of the fabric roller

**Finishes**

- Aluminium components finished in the standard polyester powder finish, 30% gloss
- Fasteners of stainless steel and other steel parts galvanised against corrosion

**Installation**

- Available with either single or back-to-back return pulley brackets or a face fix bracket



Back to back return pulley option

**Technical Data**

**System dimensions:**

Max. recommended width 4m

Maximum draw 6.5m

Maximum fabric area 16m<sup>2</sup> (based on a fabric weight of 450g/m<sup>2</sup>)

**Motor**

Torque 15Nm at 17rpm

Current 0.6amps

Supply 230 v AC single phase

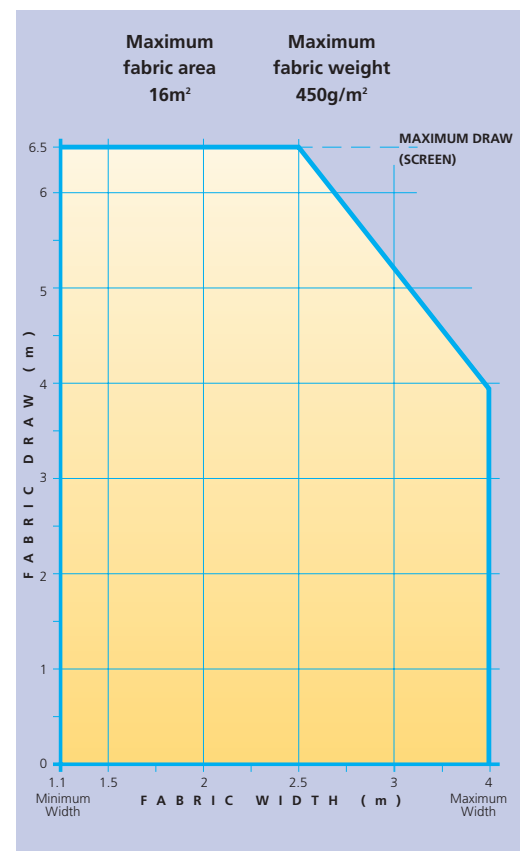
Other voltages and frequencies available on request

**System weights and structural loading**

Base weight for a 1m wide system - 15Kg, additional metre width – 5Kg

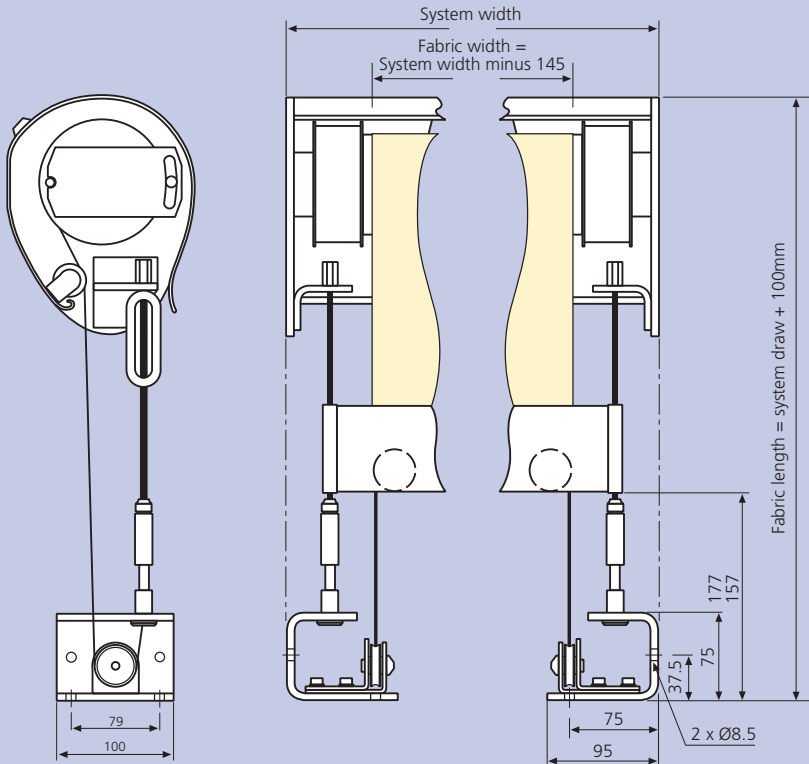
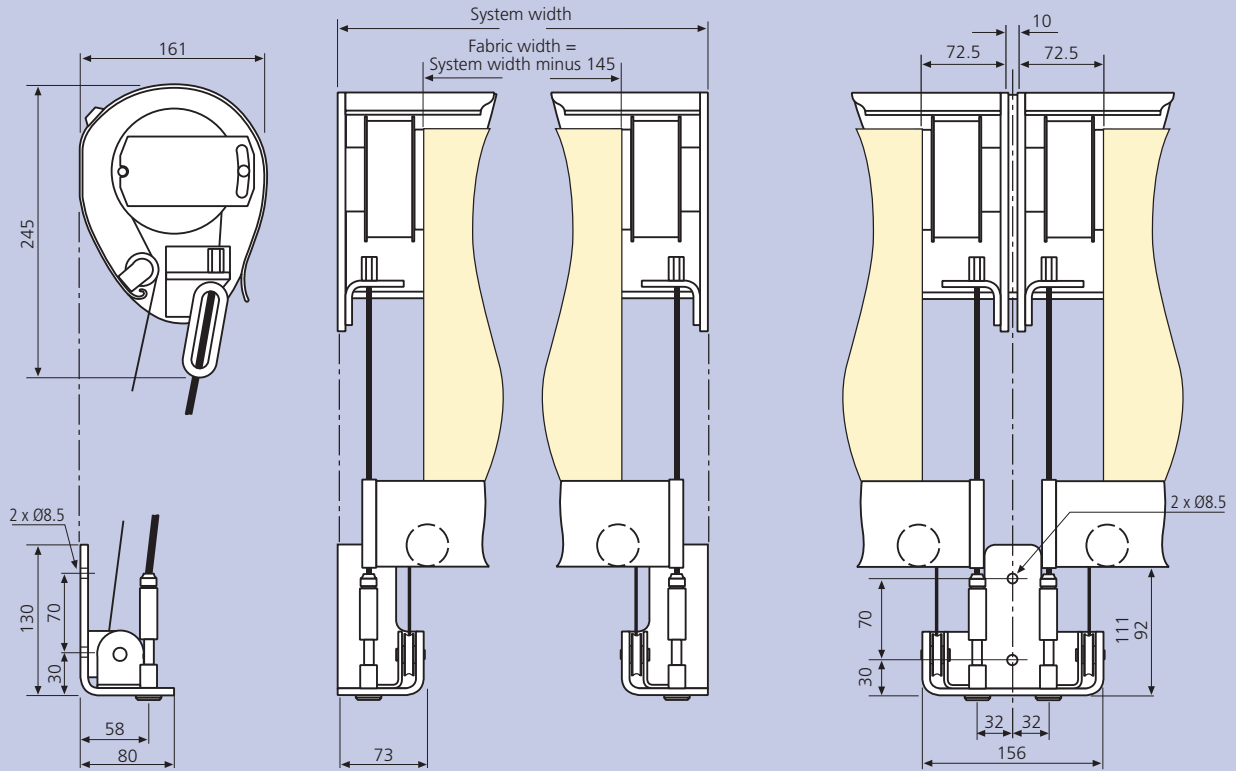
Load created by fabric tension & guide wire - 100Kg per anchor point

Wind speed 11 metres/second max.



Single System

Back to Back



Face Fix Return Pulley Installation