**HIGH-SPEED SPIRAL DOOR, type “EFA-SST®-XL Premium”**  
Manufacture, delivery and installation of:  
  
High-speed spiral door, type “EFA-SST®-XL Premium”, with electro-mechanical high-performance door drive for permanent use for the most heavy-duty, industrial applications  
  
The door system primarily consists of:  
self-supporting steel side frames, steel parts (which are generally galvanised) and spiral-shaped door leaf mounts  
The force is applied on both sides: To achieve this, a synchronised drive is installed. Ball-bearing precision rolling units have to be used for the precise, smooth and low-noise guidance of the hinge chains. A sufficiently dimensioned tension spring mechanism, ensuring the weight balancing of the door leaf and manual opening of the door (e.g. in the case of a power failure), is installed in the door frames, in accordance with DIN EN 12604.   
  
Door leaf made from double-walled, thermally separated and insulated EFA-THERM® laths (80 mm), which are fixed onto hinge chains and moved vertically (i.e. up or down), surface finish is a 2-layer coating similar to RAL 9006 (White Aluminium).  
  
The SPIRAL BODY is designed to guide the laths of the door leaf entirely without contact, and therefore without wear, and with best noise reduction possible.   
Spiral form: Round spiral  
The door system is equipped with a locking mechanism. An internal hand lever is used   
to operate the mechanism.  
  
The DOOR is driven by a gear brake motor, which must be designed as high-frequency motor. The door positions are detected by means of non-wearing, inductive proximity switches, whereby the limits are determined electronically. Electro-mechanical limit switches are not permissible here.  
  
**OPENING SPEED: up to approx. 0.8 m/s  
Max. DOOR LEAF SPEED: up to approx. 1.0 m/s  
(depending on the door size)  
CLOSING SPEED: up to approx. 0.4 m/s**  
The **MICROPROCESSOR CONTROL** is installed along with the integrated frequency converter in a steel switch cabinet, protection class IP 65. Connection to 400V / 50 Hz power supply on-site.  
  
The scope of delivery includes a DOOR LINE – LIGHT-LINE CURTAIN (EFA-TLG®), TÜV-certified and works precisely in the door closing line: The safety system is completely integrated and protected in the side frames and generates a very tight light-line curtain of infrared beams up to a height of 2.5 metres. Obstructions are detected without contact and the automatic closing movement is stopped immediately.   
  
Regulations pursuant to DIN EN 13241-1 are complied with;  
Heat insulation in accordance with DIN EN 12428, up to 0.66 W/m²K  
Resistance to wind load in accordance with DIN EN 12424, up to class 2  
Airborne sound insulation in accordance with DIN EN 7171, up to 26 dB(A)  
(values dependant on the door size and equipment)  
  
  
for clear passage opening dimensions  
  
Width = ............... mm x Height = ............... mm  
  
02/16 Subject to technical changes

**OPTIONS available for the high-speed spiral door, type “EFA-SST®-XL Premium”:**  
Surface  
Powder coating of all visible, galvanised steel parts in a colour according to RAL \_\_\_\_\_\_\_\_\_\_ (metallic colours are not available)  
  
Special coating of the laths in a colour according to RAL \_\_\_\_\_\_\_  
  
If steel parts as well as lath parts are coated in the same RAL colour, minor deviations in colour, which cannot be fully avoided, may occur due to the different surface structures of the materials. However, the supplier will do their best to keep deviations in colour to a minimum by altering the amount of gloss.  
  
**Transparency / Door leaf design:**Surcharge for fully transparent, double-walled and thermally separated window inserts made from acrylic glass, with integrated standard laths; number of pieces depends on the width.