HIGH-SPEED SPIRAL DOOR, type "SST-ÜS-Classic"

Manufacture, delivery, and installation of:

High-speed spiral door type "SST-ÜS", with electro-mechanical high-performance door drive for the heaviest, industrial continuous use

The door system essentially consists of:

Self-supporting, lateral steel frames; Steel parts generally galvanised, spiral door leaf mount

The force is introduced on both sides: A synchronous shaft is installed for this purpose. Precision roller hangers with ball bearings must be used for precise, smooth-running and low-noise guidance of the hinge straps. An adequately dimensioned tension spring mechanism is also installed in the door frame, which, in accordance with DIN EN 12604, ensures the weight of the door leaf is balanced and allows the door to be opened manually (e.g. in the event of a power failure).

Door leaf made of double-walled special profiles, which are fastened in hinge strips and moved in the vertical direction (i.e. up or down), surface finish aluminium naturally anodised (E6-EV1).

The SPIRAL BODY is designed in such a way that the slats of the door leaf are guided past each other completely without contact and therefore without wear and tear.

Possible spiral shapes: round spiral and oval spiral (up to max. height 7000 mm) (please specify)

The DOOR DRIVE is carried out by means of a geared brake motor, which is to be designed as a high-frequency motor. The door positions are permanently recorded using non-wearing, inductive proximity switches, with the end positions being determined electronically. Electromechanical limit switches are not permitted for this.

OPENING SPEED: **up to approx. 1.0 m/sec.**
Max. DOOR LEAF SPEED: **up to approx. 1.0 m/sec.**
(depending on door size)
CLOSING SPEED: **up to approx. 0.6 m/sec.**

The **MICROPROCESSOR CONTROL** is installed together with the integrated frequency converter in a separate steel control cabinet, protection class IP 65. Connection to electricity 400V - 50 Hz on site.

The scope of delivery includes an electrical safety contact edge according to DIN EN 12453, which is self-monitoring: the supply cable must be routed in a protected energy chain within the door frame.

Regulations according to DIN EN 13241-1 are fulfilled;
Resistance to wind load according to DIN EN 12424 up to Class 4
Airborne sound insulation according to DIN EN 7171 up to 25 dB(A)
(Values depend on the door size and equipment)

for clear passage opening

Width = ... mm x Height = ... mm

OPTIONS for high-speed spiral door "EFA-SST-ÜS-Classic":

Surface
Powder coating of all visible galvanized steel parts in a colour according to RAL _____ (metallic colours are not available)

Powder coating of the slats in a colour according to RAL _____

If both steel parts and slat parts are coated in the same RAL colour, slight colour differences may occur which cannot be completely ruled out due to the different surface structures. However, due to the possibilities of influencing the degree of gloss, the supplier must take the greatest possible precautions to keep the colour deviations as small as possible.

Transparency / Door Leaf Design:
Supplement for aluminium viewing slats with fully transparent, single shell viewing fields made of acrylic glass.

Supplement for transparent fillings made of scratch-resistant coated polycarbonate

Supplement for ventilation slats - made of single-leaf aluminium

Burglary Protection:
Allowance for a mechanical locking mechanism. An internal hand lever is used for actuation.

Alternative Security System:
Supplement for self-monitoring, TÜV-tested DOOR LIGHT GRID (EFA-TLG®), fully protected and integrated in the side frames of the door. The light curtain acts directly on the door closing level and creates an almost full-surface infrared light curtain up to a height of 2.5 m. Obstacles are detected without contact. The closing movement then stops immediately. This means that reverse operation can be initiated at a much earlier point in time. Contact strip and/or light barrier(s) are omitted.