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ZENITT XTREME®



Automatic lift doors in XXL format

Automatic lift doors in XXL format for use in rough industrial environment

A sliding lift door with 8.0 m clear width and 5.0 m clear height?

This is now reality, not just wishful thinking. At the beginning of 2019, MEILLER Aufzugtüren GmbH, the innovative lift door manufacturer from Munich, introduced the new oversized sliding door ZENIT XTREME® onto the market.



As the name says, everything in this door is extreme: door widths from 2,400 mm up to 8,000 mm as a six-panel center-opening sliding door and from 1,600 mm up to 5,300 mm as a four-panel center-opening door. In each case, the maximum door height can be up to 5,000 mm.

The extremely robust door concept is designed especially for tough industrial conditions. The sophisticated technology guarantees operators a high availability of the lift system. The frame and the sill with the substructure can also be made completely of stainless steel. For very high loads a continuous fastening console is available as an option. The door panels are available with stainless steel cladding, but can also be made completely of stainless steel.

ZENIT XTREME® is supplied in designs in accordance with EN 81-20 and EN 81-50 with an additional type examination. A fire tested version in accordance with EN 81-58, E 120, EW 60 is available for the following dimensions:

S-6-Z: CDW 2400 - 4500 mm

S-4-Z: CDW 2400 - 4500 mm

CDH: max. 3500 mm

ZENIT XTREME®

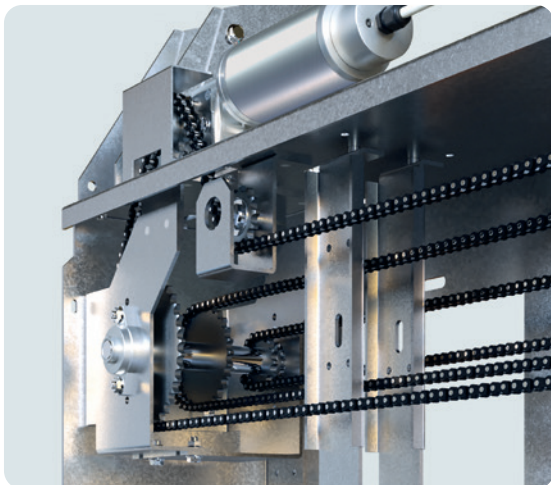
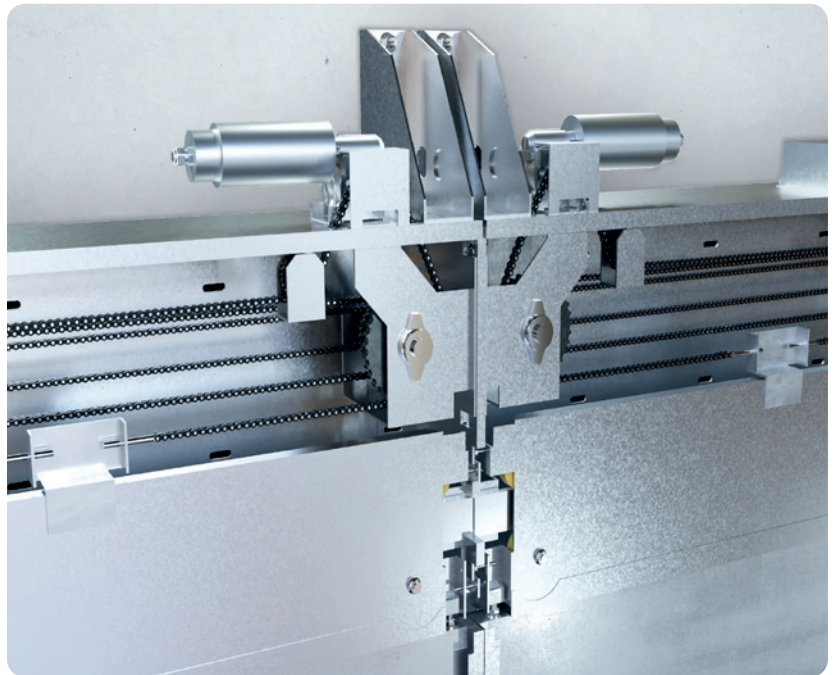
XXL technology in proven MEILLER quality

**Landing and car doors driven individually by MEILLER's
innovative MiDrive® door drive system.**

The doors are synchronised via the optical coupling, instead of by mechanical skates in combination with hook locks, which are usually used. This means that door malfunctions caused by movements or load shifts of the car are no longer possible. In addition, even the smallest sill gaps can be navigated. The door function is thus independent of the on-site holding device as well.

The drive, telescoping and return are carried out exclusively with a chain drive. This is extremely robust, has a high load-bearing capacity and means much less setting effort in comparison with ropes.

With all door widths, the transom, upper frame, sill bracket, sill and toe-guard are divided in the middle, which makes the individual assemblies easier to handle and install.





ZENIT XTREME®

ZENIT XTREME® makes big impression and shows its true strengths in every detail

The new heavy-load door is characterised not least by its easy assembly: the transom is attached to the masonry by means of the mounting bracket on the transom and its height is aligned by means of a setting aid. It is adjusted in a vertical direction using jacking screws.



The high load bearing steel sill is always in two parts. The guide grooves are lasered only as far as this is necessary for the travel of the door panels. This means that guide grooves are not visible when the door panels are closed. The sill's maximum wheel load is 5.0 t.

Thanks to its drive system, the landing door of the **ZENIT XTREME®** has a power-assisted emergency rescue function. The door drive system detects an emergency rescue through the triangle in the door frame. This opens the door automatically by 50 mm and it stays in this position. The personnel now have an opportunity to move to the middle to the closing edge, and to take hold of the door at the best point for applying force. If there is no manual door move-

ment within five seconds, the door closes and locks automatically, and the lift installation can restart normal operations. The door controller detects a force applied to the door panel as long as the door drive system is in rescue mode. The drive supports this electrically, similar to power steering in a car. In this way, even the heaviest doors can be moved with little effort. A conventional closing weight was deliberately done without here, in order to increase safety during maintenance. A closing weight that is able to close a door weighing 1,600 kg leads to an unintended high door speed. The risk of injury to persons in the area of the door would be too high. For this reason, the drive system has an electrical closing device that closes and locks the landing door in a controlled manner.

If a landing door is unlocked by means of a triangular key and opened, a closing weight is simulated electrically after 5 seconds standstill. The difference to a conventional closing weight is that the door closes in a controlled manner at nudging speed. The kinetic energy that is caused is restricted in this way to 4J, and the risk of injury is minimised considerably.

Because this door concept works without a skate and hook bolt, different door heights are possible in a system without any problems, and a ramp drive is also conceivable. The rollers and the kicking rollers are produced from a cast polyamide composite and then pressed together with encapsulated ball bearings. The roller contour is adapted optimally to the tracking rail. Each of the two rollers has a diameter of 120 mm.

The side of the emergency release at the landing door is freely selectable on site, so that this can be adapted, for example, to the existing shaft pit ladder. All sheet metal parts are made as standard from zinc-magnesium coated or hot galvanised sheets, from CDH 3500 mm the door panels are made from prime-coated black plate.

ZENIT XTREME® Features:

- Landing and car door run separately by Meiller MiDrive® door drives
- No mechanical skate, run with optical coupling (master-slave configuration)
- Available as 6-panel and 4-panel version
- Clear door widths up to 8000 mm with the 6-panel version and up to 5300 mm with the 4-panel version
- Clear door heights up to 5000 mm
- Transom as welded box-section made of 4 mm sheet steel
- Very robust panels, double-walled door with internal reinforcement ribs
- IndustryGuard as a standard: After an impact of an industrial vehicle (total mass 300 kgs) at a speed of 8 km/h the integrity of the landing door is securely maintained
- Quickly replaceable impact protection, mounted in front of the slamposts and recessed. Thus door panels and slamposts are protected against damage.
- Solid steel and stainless steel sills with very strong profiles for maximum rated loads
- Door driven by chains instead of ropes
- Electronic closing device for controlled door closing to minimize the risk of injury for the service staff

MEILLER MiDrive®

The intelligent drive concept also for oversized lift doors

Simple configuration by means of an app

A lift door's intelligence is essentially rooted in the door controller, and so it was here that the development of the new **MiDrive®** (Meiller intelligent Drive) concept was centred.

The system's central components comprise the controller, of which there are two variations, and the various motor versions and constructions controlled by it. The controller offers a series of innovative features, such as the standard CANopen interface, the facility for optically coupling two controllers (master/slave operation) and a servo mode, which supports the manual opening of heavy doors in the event of an emergency door release – just some of the benefits that already make this new drive concept unique.

To enable preventive maintenance, the system also provides for the storage and evaluation of data regarding door status. Moreover, the two standard energy-saving modes, ECO and ECO-Plus, make their own contribution to environmental protection.

The use of a mobile phone app makes an easy matter of the door commissioning process.



It involves the use of predefined QR codes to configure the door on site, in accordance with the product and order. In addition, special QR codes allow service technicians to respond quickly and easily in the event of any problems. Error codes are displayed in clear text form on the smartphone screen, enabling uncomplicated fault analysis at any time.

The smartphone app even enables the easy download of software updates.



MiDrive Features:

- One controller (in two variations) and one transformer for all motor configurations
- Powerful drives that employ the latest motor technology (800 kg)
- Brushless, frequency-controlled EC motors and DC motors
- Protection class IP 54 as standard, special-purpose models (e.g. IP 67, ex-protected) available optionally
- CANopen interface as standard
- A single controller can be used to couple two motors to a door
- Optical coupling of landing and car door in master/slave configuration
- Energy-saving modes ECO (motor is switched off) and ECOPlus (both motor and controller are switched off) as standard
- Energy consumption regulated by sophisticated energy management
- Interlock controlled electrically without separate power supply
- Demonstrable increase in motor efficiency thanks to modern process architecture and optimised motor running
- Standard servo mode to support opening and closing of large and heavy doors in the event of an emergency door release
- Condition monitoring: Lifetime data is logged to provide information regarding door condition
- Fast and easy commissioning using a smartphone app: perfectly coordinated drive parameters obtained by scanning a QR code
- App available for Android and iOS
- Secure controller connection via Bluetooth
- Travel profile can be individually adjusted using the app
- Error codes displayed in clear text form on the smartphone screen
- Easy updating of controller software using the app
- Latest installation instructions can be downloaded with the app and are then available offline
- Easy identification of defective door components and immediate ordering of spare parts online using the app

Discover the Invisible

Step 1: Download app via QR code

Step 2: Scan marker to discover the invisible

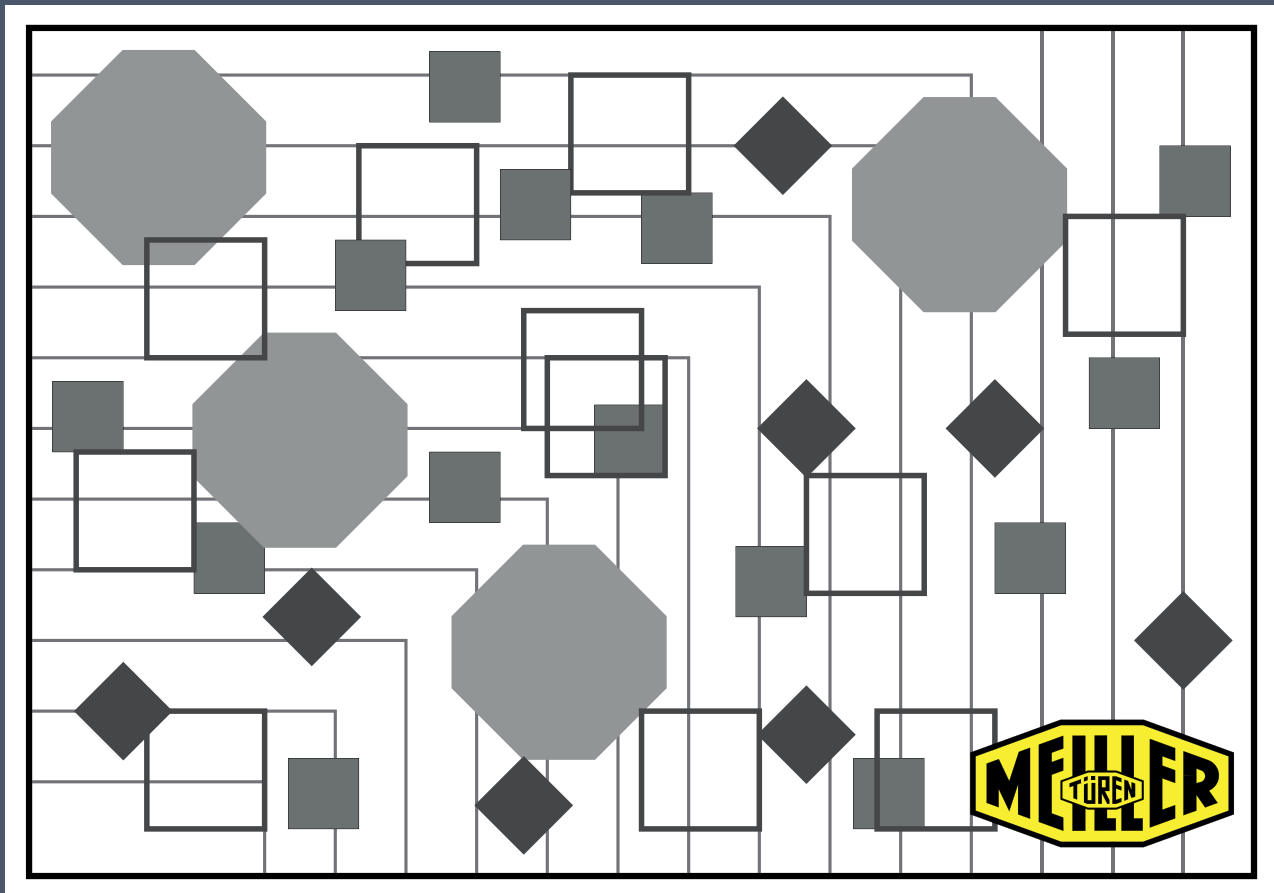


Android



iOS

Scan here



ZENIT EXTREME® - Dimensions

Door model	Door width	Door height
Centre opening six panels S/K 6 Z	CDW = 2400 - 8000 mm	CDH = 2000 - 5000 mm
Centre opening four panels S/K 4 Z	CDW = 1600 - 5300 mm	CDH = 2000 - 5000 mm



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