Maxi DOOR
Large Openings Vertical Flexible Door

Overview

Maxi DOOR has been designed based on COIL experience with big dimension traditional Fold Up door. This special transit door is suitable for large openings in **Shipyards** and **Hangars** applications.

The design has been standardized in order to have a factory production process compliant with European regulation but, since this door is often part of a wider project, every Maxi DOOR is calculated depending on dimension required and environment specifications.

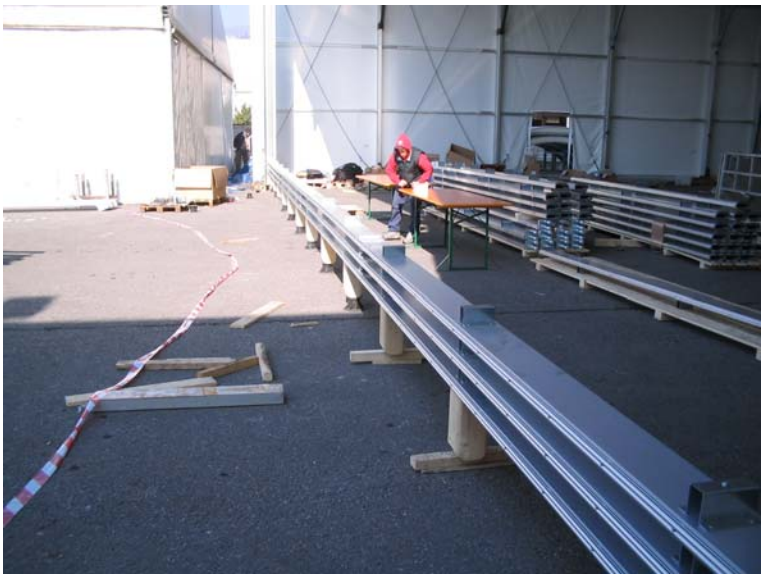
Product compliant with EC UNI EN 13241-1 regulations

Truss Modules Structure

MaxiDOOR is the first large openings door that can be realized with a full removable structure. Modules are based on aluminium orizontal truss elements with side teflon wheels that moves vertically on galvanized reinforced side guide with internal guide-rail for the teflon wheels.

Pressure Resistance

Aluminium truss modules deliver a light weight structure with a loading pressure resistance compliant with **UNI EN12424 CLASS 2 (450 Pascal).**

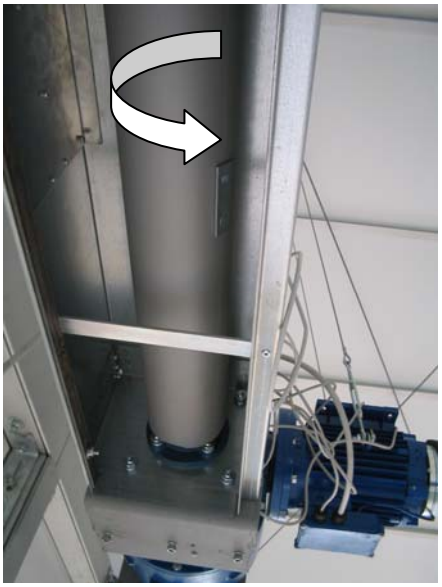


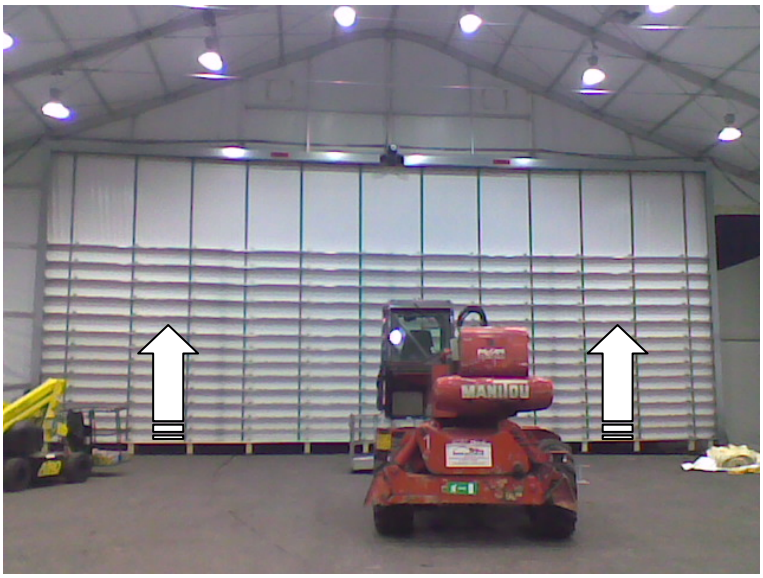
Interchangeable Section Curtain

Flexible Curtain is realized in single horizontal sections that slide into aluminium joint bar.
It is far more robust than a standard “”one piece” curtain.
This feature allows to exchange the single section in case of accidental damage.

Lifting Belts System

Door opens by means of lifting belts that are rolled-up on the upper barrel inside canopy. The barrel is the main drive system and it is realized in one,two or more sections depending on width dimension.





Motor Unit

Motor Unit is a 400VAC 3phase with irreversible Gear-Box worm type self-lubricating grease immersed.
It is designed for heavy usage.

Technical Specifications

Structure	Made from special galvanised steel profile, dimensioned to ensure durability and protection in all situations, even against accidental impact. Full width canopy and motor cover as standard.
Drive shaft	Made from tubular galvanised steel, diameter 152 mm, flanged. Rotates on bench supports with self-aligning ball bearings
Motor assembly	Three-phase self-braking assembly powered by 400V, with power ratings from 0.75 to 4 kW. Comes with safety heat detector. Electromagnetic lock brake.
Gear Box	Irreversible gear-motor grease-immersed, worm screw type, directly driven by drive shaft.
	Cam limit-switch assembly
Opening/closing speed	Up to 0,5 m/sec
Curtain	Made from trevira-type twin-moulded polyester fabric, self-extinguishing Class 2, with pockets for strengthening flexible joint system. Curtains available in a selection of colours
Vision Panels	One row of transparent PVC windows for safety and interior lighting. Optional Additional rows of windows
Wind strengthening bars/Wind Resistance	Made from aluminium truss modules, Standard Wind Resistance UNI EN12424 CLASS 2 (Calculated at maximum opening dimension).
Safety photocell	One Pair of transmitter/receiver type UNI 8612 compliant. Stops downward movement of the door and returns it to the open position should any obstacle be detected by the threshold beam. Optional Additional pairs as required by choice, or current Health and Safety Standards. Optional Photocells up-rated from IP55 to IP57
Emergency opening	In the event of power failure or malfunction, lifting of the door is by brake release and a snap insertion manual wind.
PT Control Box/Board	On the Standard control box is a up push buttons and emergency push/lock button. On the Plus control box is a lockable power switch, up and down push buttons, emergency push/lock button, and an automatic/manual selector. The box itself is a robust enclosure (protection degree IP 55, in compliance with updated CEE/CEI 44/5 and DIN standards). IP 65 compliant push-button board. The solid-state microprocessor digital electronic instrument panel affords easy programming and rapid replacement operations in the event of faults, as well as ensures interfacing with remote controls and timer programming. A self-diagnosis circuit detects and indicates malfunctioning by means of dedicated LED lamps. The board also features a safety heat detector
Optional opening devices	A full range of remote controls are available e.g. mono/stereo radar, pushbuttons, radio control, induction loop system, pull cord, etc
Optional Interlock logic	For interfacing a series of doors or the door with external PLC system.
Warranty	COIL. provide a standard warranty of 12 months from delivery date on every products. In case of malfunctioning, parts will be exchanged. Delivery of the new part will be after receiving the original one
Certifications	Product compliant with EC Directive UNI EN 13241-1 Industrial and Commercial Automatic Doors • 89 / 106 / CEE Construction Products • LVD 73 / 23 / CEE Low Voltage • EMC 89 / 336 / CEE Electromagnetic compatibility • 98 / 37 CEE e 98 / 79 CEE Automatic Machine • UNI EN 12604 Mechanical Aspects • UNI EN 12453 Safety usage of Automatic Doors • UNI EN 12424 Loading Pressure Resistance