



# Product Overview

TORMAX International



# Introduction



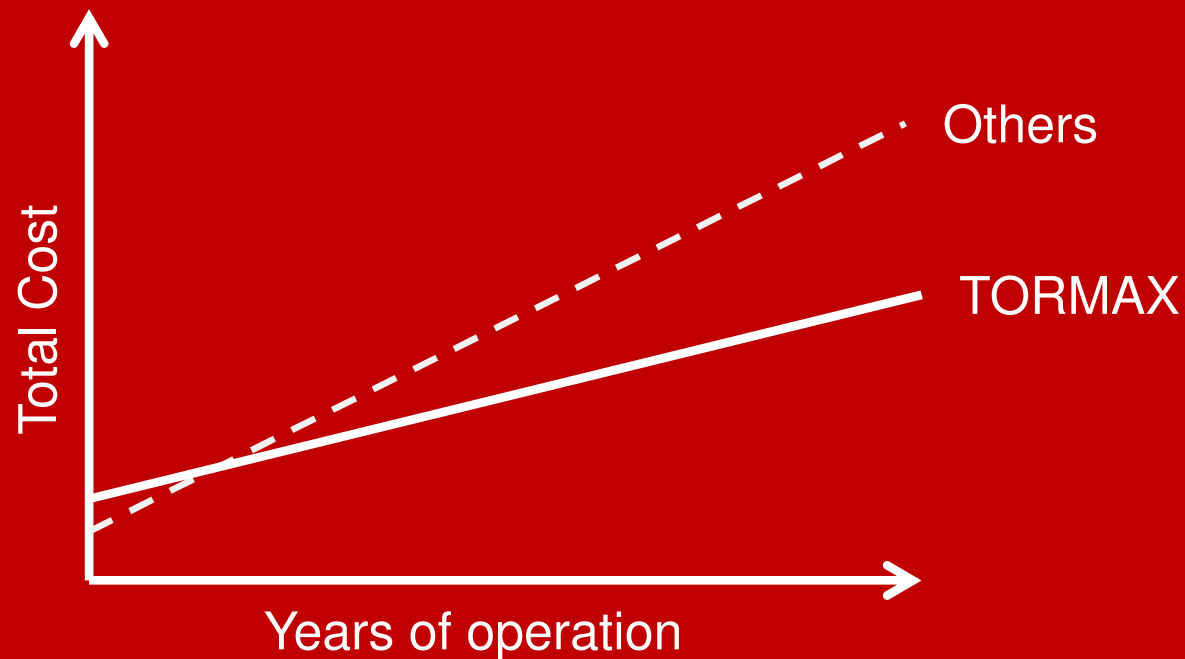
TORMAX installed Europe's first automatic door in 1951. Today a leading manufacturer of automatic door systems worldwide with 16 Group companies and 500 distributors. TORMAX automatic door systems are found in office buildings, shopping malls, hotels and restaurants, department stores, airports and train stations, on ships and in apartment buildings – in short, in hundreds of thousands of buildings around the world.

TORMAX is a division of the Landert Group, an independent privately owned Group of companies, characterized by innovation, quality and genuine entrepreneurship. The Landert Group was founded in 1924 with its headquarters in Bülach near Zürich, Switzerland, and employs over 800 staff members across its two divisions TORMAX (automatic door systems) and SERVAX (customized electric drives).

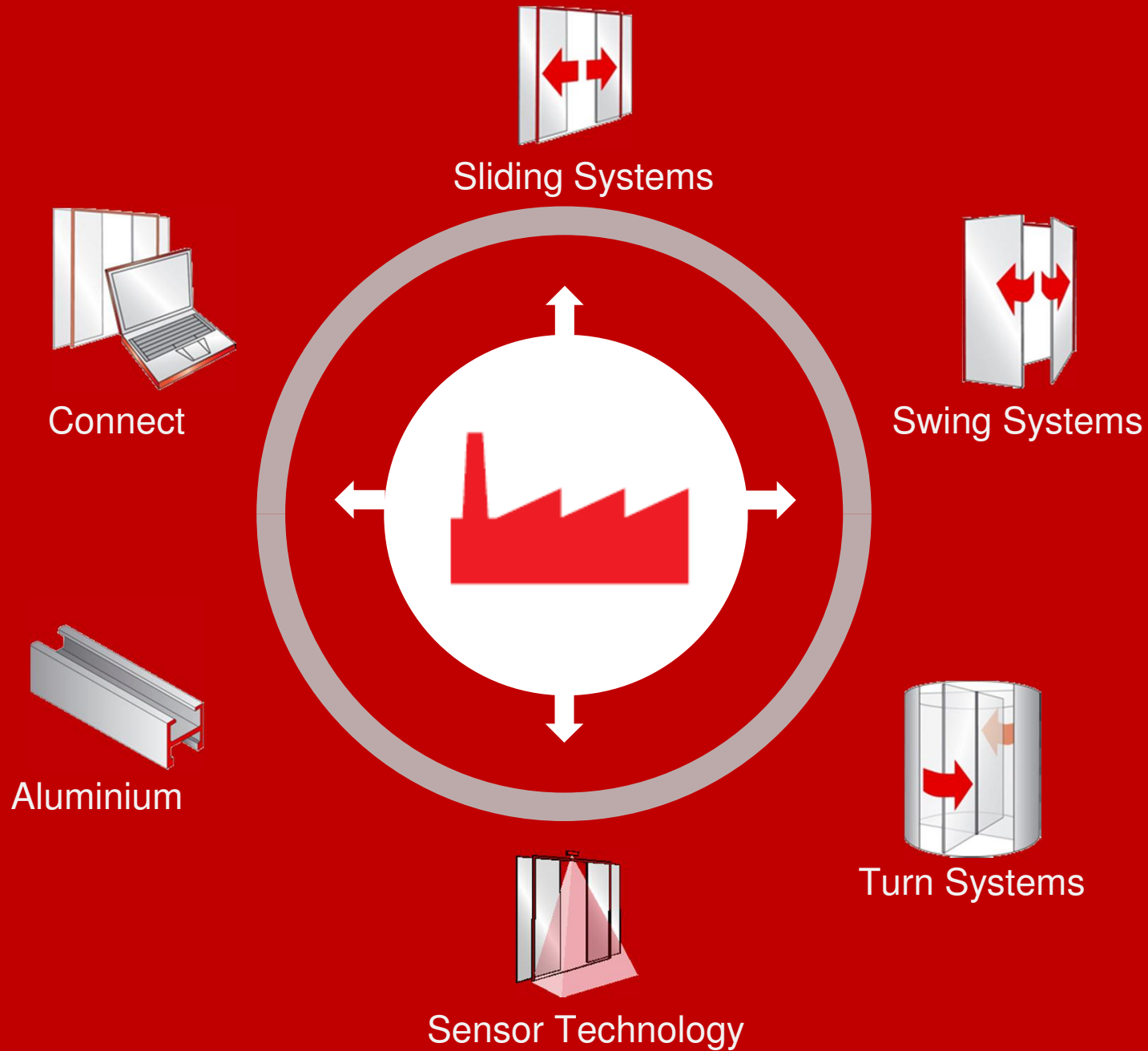
# Customer satisfaction due to our high quality products



TORMAX technology and quality pay off. The service life cycle of our door systems, maintenance-free motors and reliable technologies mean that you have fewer interruptions and fewer service inspections during operation. TORMAX Total Cost of Ownership are significantly lower than other systems in the market



# Product Overview





# TORMAX Revolving Door Systems

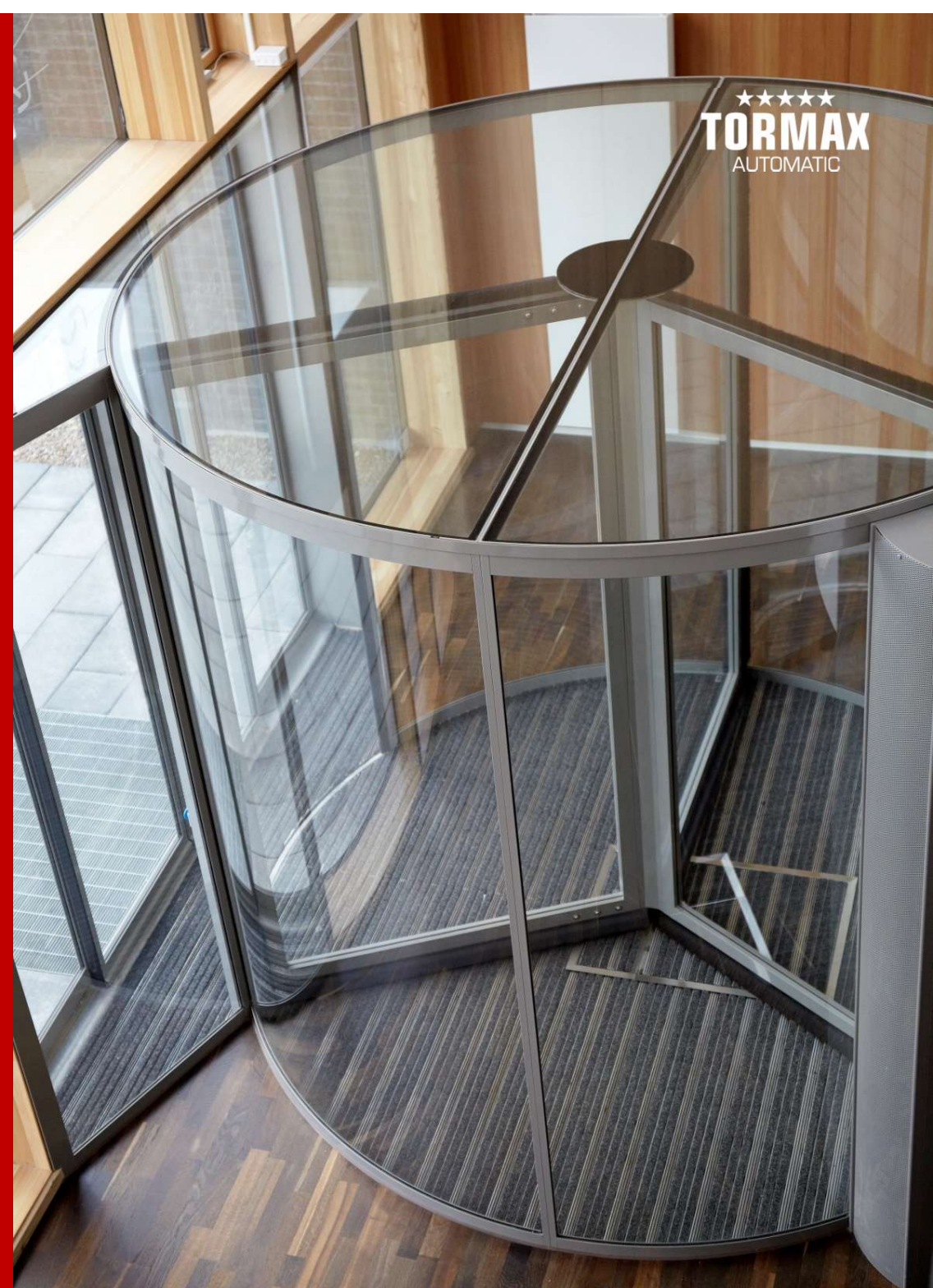
Highest Quality Standards for Perfect Aesthetics

★★★★★  
**TORMAX**  
AUTOMATIC

TORMAX Revolving Door Systems

## In a nutshell

- Entrances with tempting aesthetics
- Functional comfort for a pleasant two-way, direction-separated traffic of persons
- Draft-free
- High-quality revolving door system according to the latest safety standards
- Made-to-measure with a wide range of design options and functions
- Design, production, installation and service by TORMAX
- Entire door system made by TORMAX and directly shipped to your building site



# Areas of Application

- A large variety of configurations enable us to offer the best possible solution to meet our client's needs
- Main applications: Hotel and Congress Centre, Shopping Centre and Cinema, Office and Public Building, Hospital and Health Care, Airport and Train Station, School and Education, Leisure and Sport

Hotel and Congress Centre



Shopping Centre



Office and Public Building



# Highest Quality Standards for Perfect Aesthetics

TORMAX revolving door systems are the prestigious visiting cards for the outside and inside of buildings. They are custom-made in our own factory and allow the maximum freedom of design possibilities.

## Worthwhile investment

- High-grade appearance due to extremely quiet operation
- Low maintenance costs and wear-free drives
- Reliable and long life cycle
- Low energy losses even with heavy traffic of people
- Easy everyday operation

## Aesthetic solutions combined with functional comfort

- Elegant design
- Maximum freedom of design with various options and materials
- Separated entrance and exit routes
- Any noise, dust and odours are effectively kept away thanks to the airlock principle
- Draft-free
- Smooth acceleration and braking without any jolts

## Safety and security included

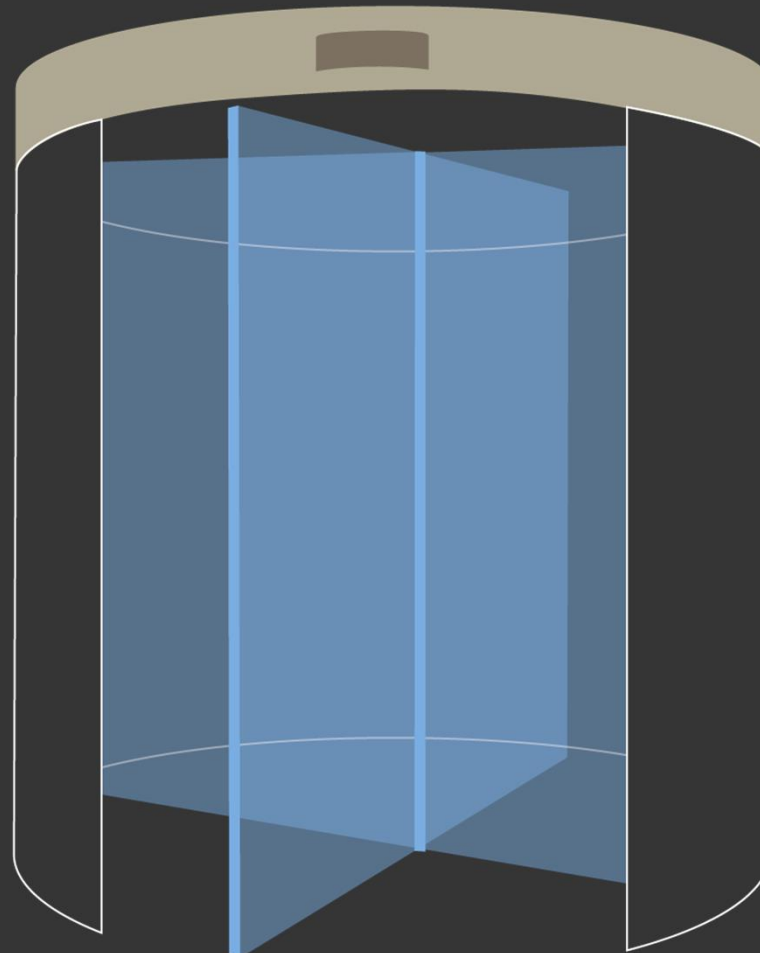
- Integrated reliable sensors ensure maximum safety for every user
- All safety components are pre-configured at the factory and neatly incorporated in the construction
- Approved and certified to all safety standards
- Secure night locking
- Possibility of pedestrian flow control



# System Overview

## Drive

- In canopy
- In / under floor



Door leaves  
and drum walls

## Integrated safety systems

- Activation sensors
- Safety elements
- Emergency stop
- Finger guards



## User Interfaces

- Disable button
- Emergency stop

References

# Royal Danish Opera, Copenhagen



References

# Alfa Laval, Ålborg



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References

# Office Building, Copenhagen

★★★★★  
**TORMAX**  
AUTOMATIC



References

# Congress Hotel, Barcelona

★★★★★  
**TORMAX**  
AUTOMATIC



References

# Westgate, Dublin

★★★★★  
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AUTOMATIC



References

# Hotel Pullman, Dubai



References

# Oval Office, Cologne

★★★★★  
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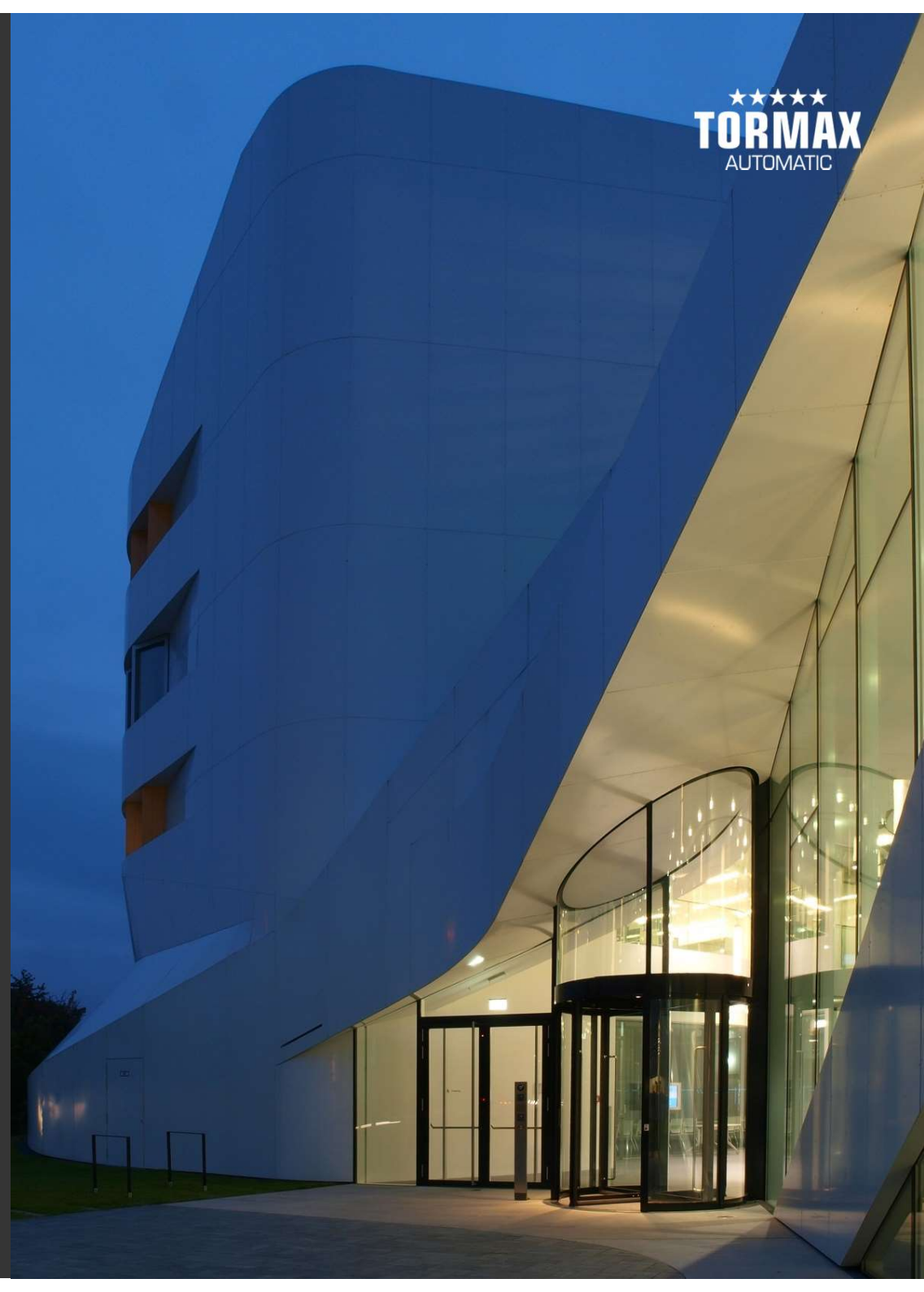




References

# Fraunhofer Center for Virtual Engineering, Stuttgart

★★★★★  
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# 4 Types of Construction



## CLASSIC Small

- Classic, timeless design
- Diameter up to 4.0 m
- Drive in canopy or invisible in floor



## CLASSIC Large

- Classic, timeless design
- Optionally with presentation window
- Available as 3- & 4-wing door system
- Diameter 3.6 to 7.4 m
- Drive in canopy



## LIGHT FRAME

- Glass design also for high frequency
- Narrow profiles with centre column
- Diameter up to 3.6 m
- Drive invisible in the floor



## FULL GLASS

- Complete glazing without centre column
- Full transparency
- Diameter up to 3.0 m
- Drive invisible in the floor

# Individual Designs

- Many options in design and surface finish:
  - Polyester powder coating with pre-treatment
  - Anodized finish
  - Cladded with various type of steel sheeting (stainless steel in satin brush, mirror polished, brass, gilded metal etc.)
- Individual lightning solutions
- Drum walls in different type of glass or aluminum



Product Features

# Maximum Transparency

- TORMAX Full Glass Revolving Door without centre column
- Impressive visual lightness
- Door leaves, drum walls and roof section are made of safety glass
- Drive mounted in the floor



Product Features

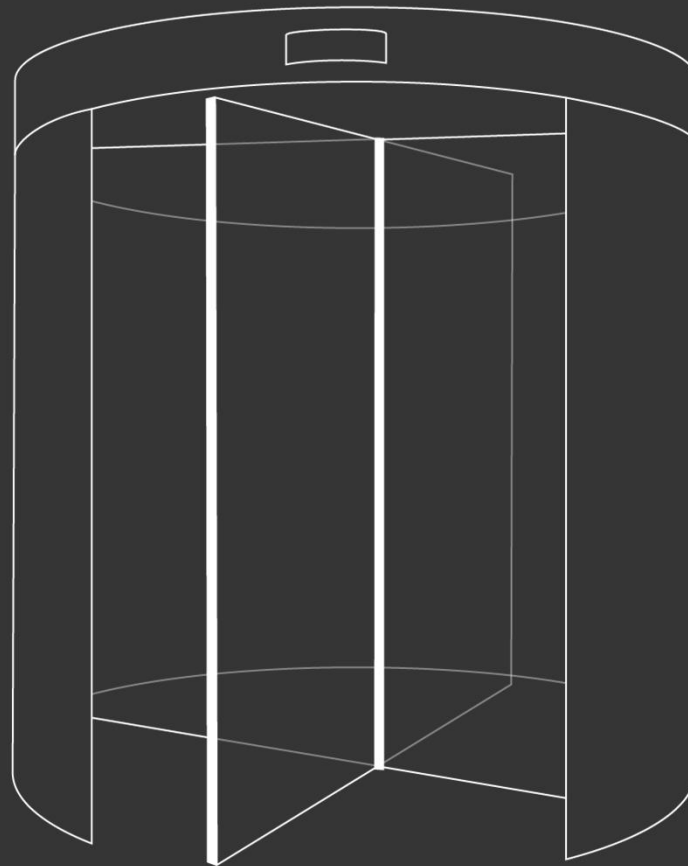
# Made-to-Measure

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Canopy height 30 – 500+ mm

Passage height max. 4000 mm

Diameter 1800 – 7400 mm



# Proven TORMAX iMotion Drive Technology



- TORMAX iMotion Revolving Door Drives
- Smooth acceleration and braking of the door leaves without any jolts
- Easy manual operation when powerless with unique over-rotation security
- Brushless synchronous AC motor: long-lasting, dynamic, quiet, efficient
- Modular, programmable TORMAX iMotion microprocessor control unit with excellent functionality, extensive monitoring and diagnostic functions
- Individually adjustable movement sequence
- Slow speed for wheelchair users
- User interface with five operating modes and status displays

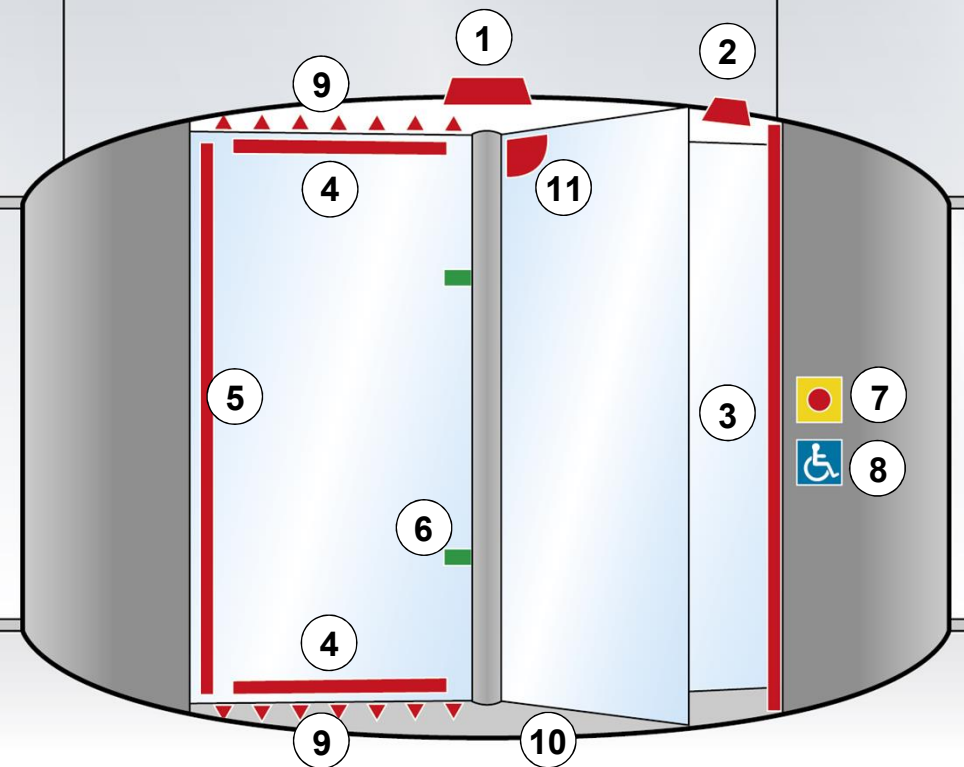
## Built-in Safety (1/2)

- Designed and equipped to maximum people safety
- Rotational force monitoring and computer-controlled rotation
- Special sensors stop the system without body contact and adjust the speed to those passing through (activation sensors, preliminary post safety elements, laser sensors)
- Soft, redundant rubber strips prevent a direct collision
- Invisibly integrated sensors depending on the type of construction
- Disable button limits the speed of the door for a definite number of rotations
- Emergency stop



## Built-in Safety (2/2)

- 1) Activation sensors
- 2) Preliminary post safety elements
- 3) Post safety elements
- 4) Horizontal safety thrust strips
- 5) Vertical safety thrust strips
- 6) Break-out device
- 7) Emergency stop
- 8) Disable button
- 9) Finger guard
- 10) Floor mats
- 11) Laser sensor





# Options

- Integrated show case (5351.CL only)
- Air curtain
- Night locking, manual and electric, available in RC2 (50-5251.CL only)
- Mechanical locking
- Break-out and wind brake
- Floor mats
- Escape route function
- Access control

# Certified to all Safety Standards



- CE
- EN 16005 (TÜV)
- DIN 18650 (TÜV)
- EN 61000-6-2 / EN 61000-6-3 / EN 60335-1



# **TORMAX Curved Sliding Door Systems**

Precision for Perfect Functionality and Elegance

★★★★★  
**TORMAX**  
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## In a nutshell

- Elegant appearance
- More light and more space at your entrance than with linear sliding doors
- Comfortable two-way traffic and high flow rate of people
- High-quality curved door system according to the latest safety standards
- Made-to-measure with a wide range of arc shapes, design specifications and functions
- Design, production, installation and service by TORMAX
- Entire door system made by TORMAX and directly shipped to your building site



# Areas of Application

- A large variety of configurations enable us to offer the best possible solution to meet our client's needs
- Main applications: Hotel and Congress Centre, Stores, Office and Public Building, Hospital and Health Care, Airport and Train Station, School and Education, Leisure and Sport

Hotel and Congress Centre



Store



Office and Public Building



# Precision for Perfect Functionality and Elegance

TORMAX curved sliding door systems make your entrance extraordinary and generous by expanding the room. They are custom-made in our own factory and allow the maximum freedom of design possibilities.

## Worthwhile investment

- Extremely quiet and smooth operation due to precise coordination of all elements without compromises
- Low maintenance costs and wear-free drives
- Reliable and long life cycle
- Quick and safe opening/closing for undisturbed passages
- Easy everyday operation

## Architectural freedom

- Elegant design
- Maximum freedom of design possibilities due to various sizes, materials, colours and forms (full circles, half circles, different arc shapes, oval or sinus shapes)
- Larger clear opening width than with linear sliding doors

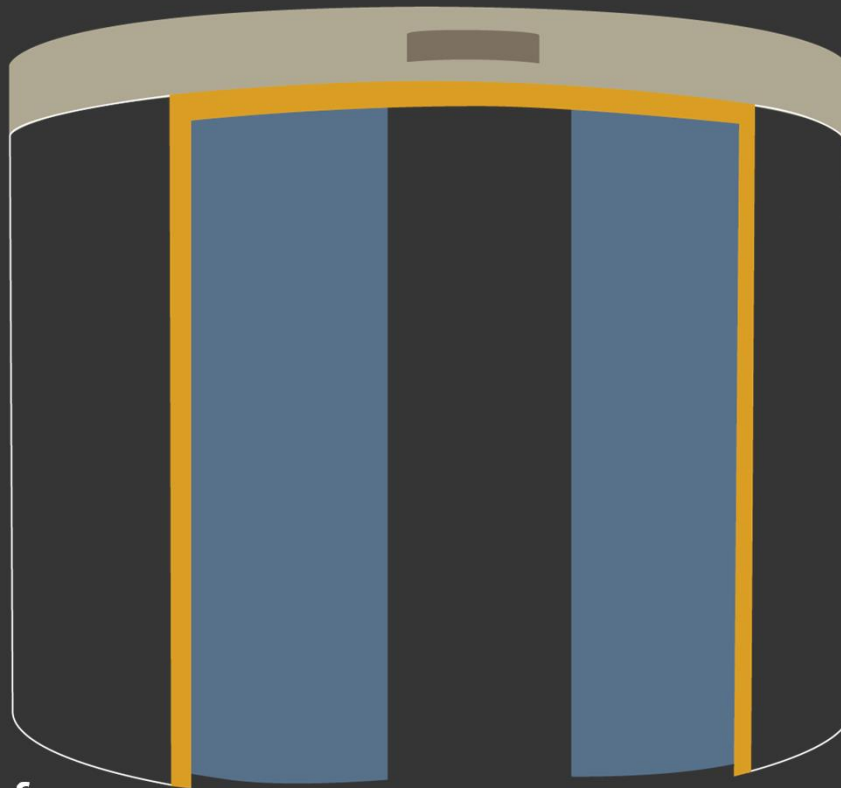
## Safety and security included

- Integrated reliable sensors ensure maximum safety for every user
- All safety components are pre-configured at the factory and neatly incorporated in the construction
- Approved and certified to safety standards
- Secure night locking

# System Overview

Roof construction or integrated in facade

Drive



Integrated safety systems

- Activation sensors
- Safety elements

User Interfaces

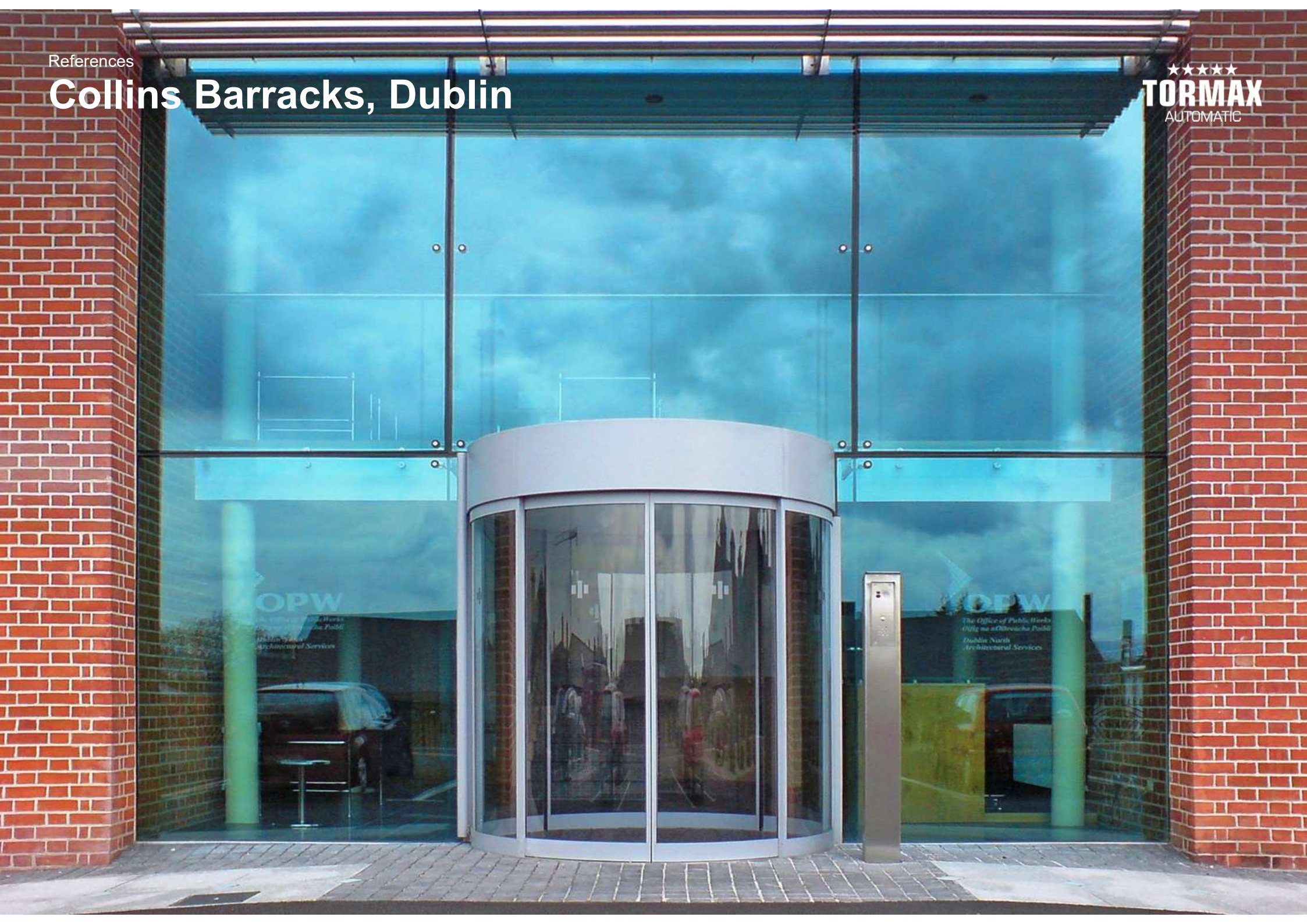
Door leaves

- Double doors outside and inside
- Double- or single-leaf
- With or without fixed door leaves

References

# Collins Barracks, Dublin

★★★★★  
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References

# Bang&Olufsen Store, Denmark



References

# Town Council Longford, Ireland

★★★★★  
**TORMAX**  
AUTOMATIC



References

# Perfumery, Luxembourg



References

# Shopping Centre, Copenhagen

★★★★★  
**TORMAX**  
AUTOMATIC



References

# Office Building, Copenhagen

★★★★★  
**TORMAX**  
AUTOMATIC



References

# Health Care Center, Ireland

★★★★★  
**TORMAX**  
AUTOMATIC

# Waterside Health Centre

Riverfront  
Glendon  
Cityview  
Medical  
ical

Cityview Med  
Glendon  
treatment Ro



PLEASE  
WIPE  
FE

Reception  
Riverfront Medical



References

# Vereinigte Sparkassen Eschenbach, Bavaria

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AUTOMATIC



# The Culture of Curve (1/2)



## CS 180 – the elegant appearance

- 180° curved model
- Timeless and elegant design
- Narrow profiles
- Facing outdoors or indoors
- Drive fitted in roof system



## CS 360 – functionality and style

- 360° circular model
- Timeless and elegant design
- Narrow profiles
- Reduces wind impact
- Drive fitted in roof system



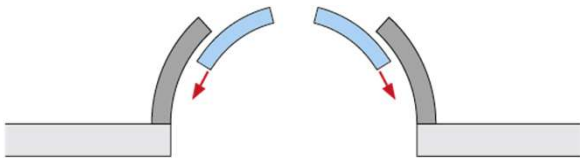
## ARC – variations in arc-shape

- Numerous, even unusual shapes
- Architectural freedom
- Timeless and elegant design
- Narrow profiles
- Drive mounted over the door on a supporting profile

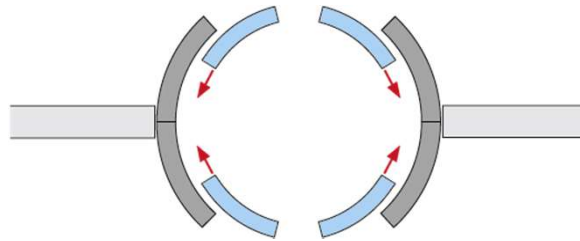


# The Culture of Curve (2/2)

**CS 180 – the elegant appearance**



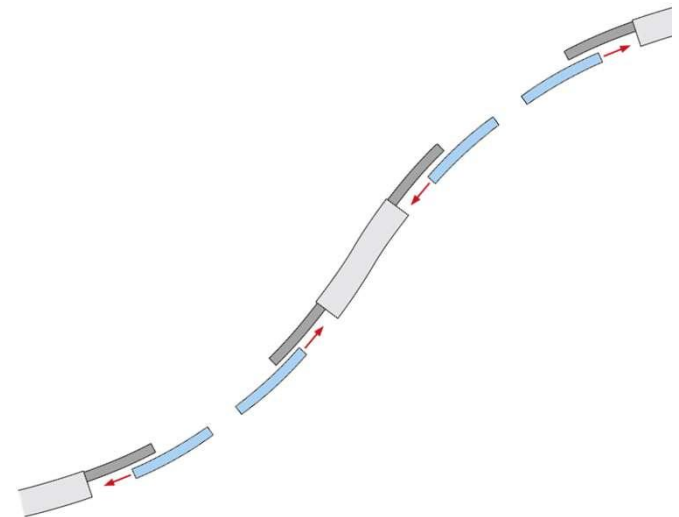
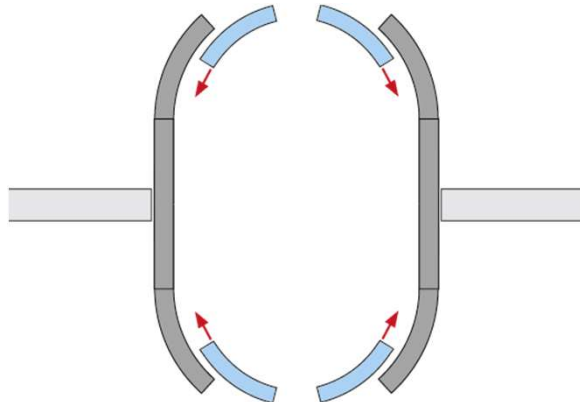
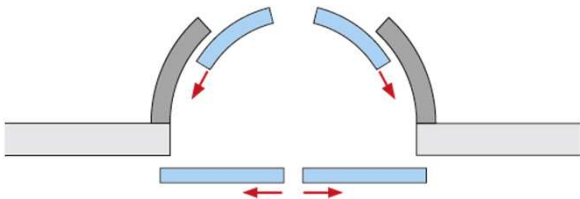
**CS 360 – functionality and style**



**ARC – variations in arc-shape**

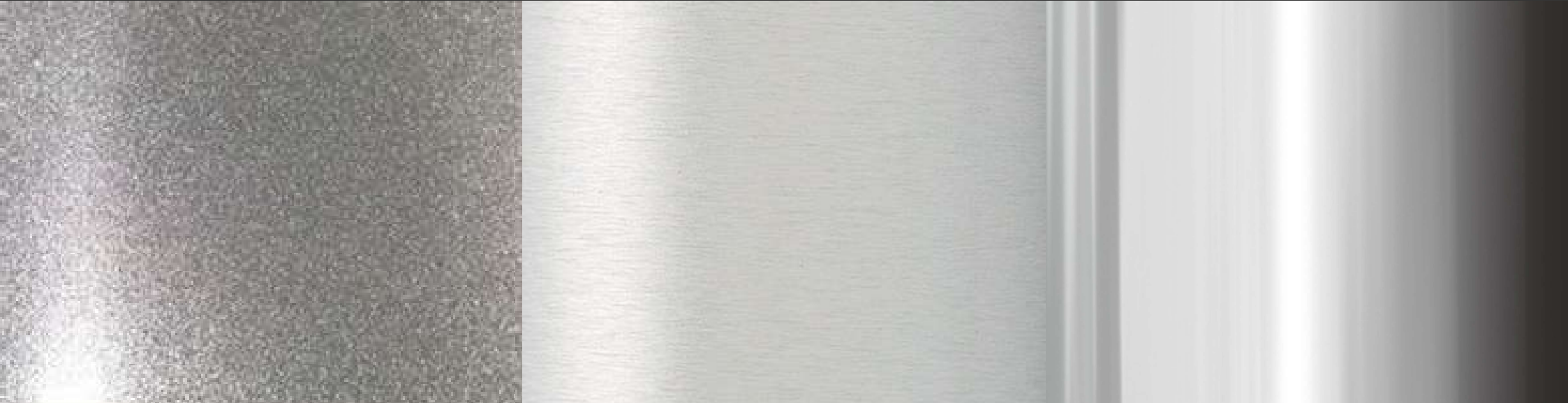


**Combination possibilities**



# Individual Designs

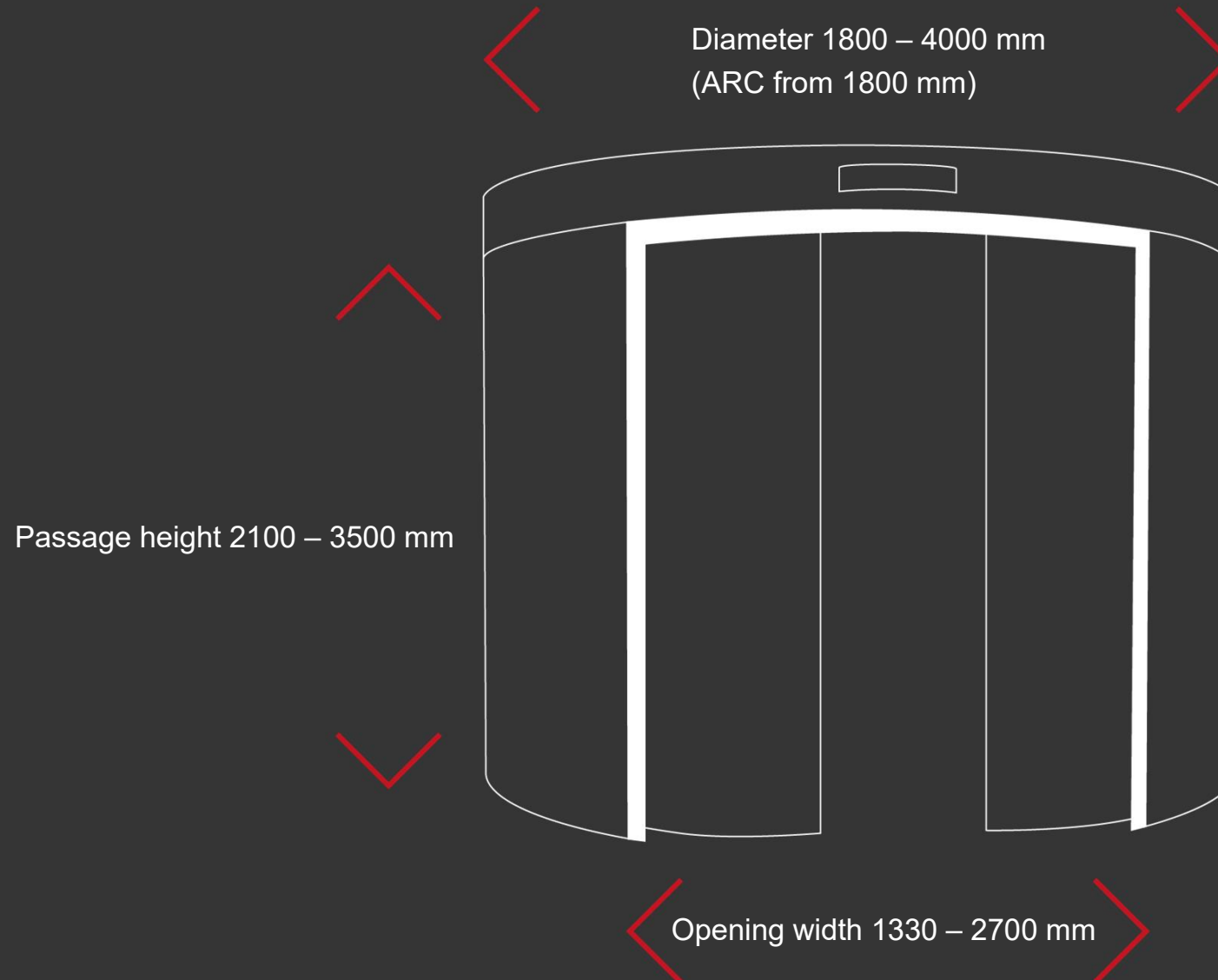
- Many options in design and surface finish:
  - Polyester powder coating with pre-treatment
  - Anodized finish
  - Cladded with various type of steel sheeting (stainless steel in satin brush, mirror polished, brass, gilded metal etc.)
- Numerous shapes
- Drum walls in different type of glass or aluminum



Product Features

# Made-to-Measure

★★★★★  
**TORMAX**  
AUTOMATIC



# Proven TORMAX iMotion Drive Technology



- TORMAX iMotion Curved Sliding Door Drive
- Dynamic acceleration and braking of the door leaves
- Gearless, brushless synchronous AC motor: long-lasting, dynamic, quiet, efficient
- Modular, programmable TORMAX iMotion microprocessor control unit with excellent functionality, extensive monitoring and diagnostic functions
- Individually adjustable movement sequence
- User interface with six operating modes and status displays

Product Features

# Options



- Air curtain
- Emergency spring system
- Floor mats
- Air lock function

Product Features

# Certified to all Safety Standards



CE

EN 16005 (TÜV)

DIN 18650 (TÜV)

EN 61000-6-2 / 61000-6-3 / 60335-1

UL 325 (with TORMAX iMotion 2351 / 2451)

# Integration within Higher-level Systems



- Possibility to integrate various components of building management systems for status, access control and operation
- I/O and RS485 (Modbus)

TORMAX

# The TORMAX quality pays off



Exceptionally long lifetime  
of door systems

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Wear-free  
motors

Reliable  
technology

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Less interruptions and  
service calls



Significantly lower life cycle costs  
than other systems



# Your Strong, Competent Partner

- Support by highly qualified technical advisers from design, production through to Installation
- Professional Service throughout the lifetime of your automatic door systems
- Full range of maintenance contracts to suit all requirements
- 24/7 Service
- Proven Swiss quality and reliability
- Delivery time: min. 6 weeks from receipt of signed drawings



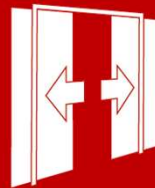
the passion to drive doors

## Your Contact

TORMAX Official Representative  
**DOORME AUTOMATISMOS, S.L. / ZIBOR**  
C/ Santos Justo y Pastor, 142  
46022 Valencia, España



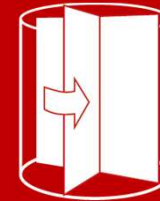
Swing Door Systems



Sliding Door Systems



Folding Door Systems



Revolving Door Systems

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