



KTC 2. The barrier-free and spacious entrance for standard and heavy user traffic.

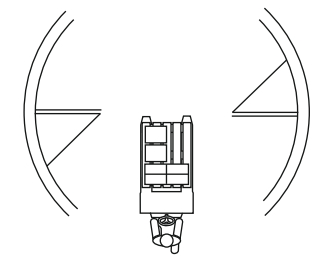


KTC 2. The flexible, barrier-free application for shopping centres.

Today, modern shopping centres attract thousands of visitors. With their KTC 2, DORMA provides a barrier-free all-in-one solution: two doors in only one system – a revolving door with an integrated automatic sliding door. The entrance may be tailored to the number of visitors to ensure smooth user traffic.

Always the suitable function

Barrier-free entry is a must for every shopping centre. Thanks to the combination of two door versions in a single system, the KTC 2 is suitable to cope with standard and heavy user traffic and provides extraordinary user convenience.



Diameter:	3.6 m	4.2 m	4.8 m	5.4 m
Clear passage width of sliding door in mm:	1,618	1,918	2,218	2,518

Revolving door data for user traffic

Speed at the wing edge: 0.6 m/s
Required space per person: 0.7 m²
Utilization degree per chamber: 80%

Diameter:	3.6 m	4.2 m	4.8 m	5.4 m
People per chamber:	3	5	6	7
People per hour*:	1,145	1,637	1,718	1,764

*Theoretical traffic capacity per hour
= number of wings x people per chamber x rotations per minute x 60 min.

Revolving door data for people with shopping trolleys

Speed at the wing edge: 0.6 m/s
Required space per person: 2.0 m²
Utilization degree per chamber: 60%

Diameter:	3.6 m	4.2 m	4.8 m	5.4 m
People per chamber:	1	1	1	1
People per hour*:	382	327	286	252

*Theoretical passage capacity per hour = number of wings x (people + trolleys per chamber) x rotations per minute x 60 min.

WN 053 969 51532, GB 3, BD, 09/10



Door Control



Automatic



Glass Fittings and Accessories



Security/Time and Access Control (STA)



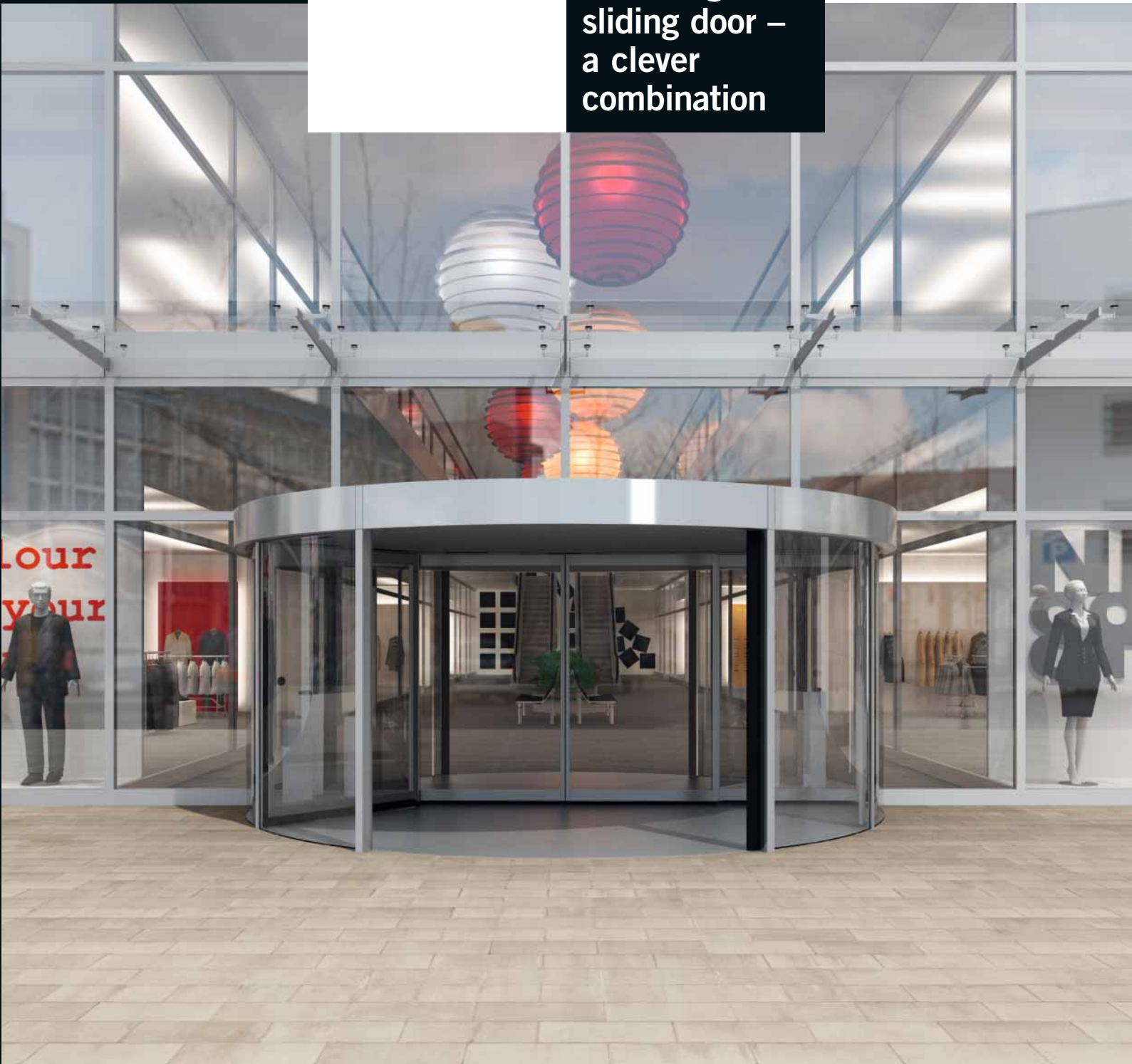
Movable Walls

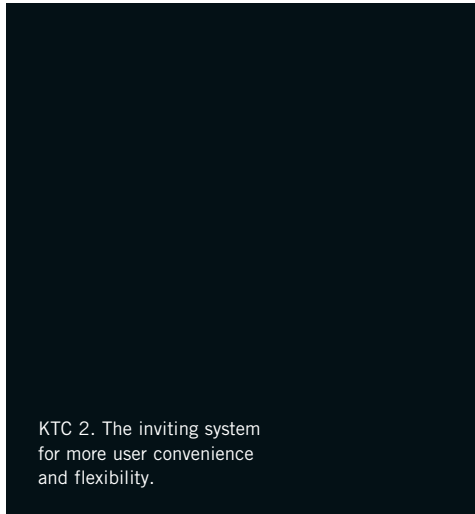
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KTC 2

Revolving and sliding door – a clever combination



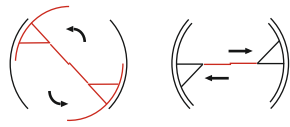


KTC 2. Twice as convenient with various benefits.

A revolving door and an automatic sliding door combined in a single system for more flexibility.

Twice the convenience in a single entry. Enjoy all the

benefits of a revolving door during hours with standard traffic capacities and simply switch to the sliding door mode whenever the number of users grows.



Tailored to your requirements

Conserving resources, cutting costs.

Thanks to its modern drive technology, the KTC 2 requires 18% less energy than its predecessor, which saves

energy costs – despite its bigger internal diameter.

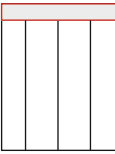


18% less energy consumption

Superior “Slim Design”. A large door system in slender design.

Frameless drum walls, a decreased canopy height of only 300 mm and a

diameter of up to 5.4 m – a combination that delivers slimline door solutions.

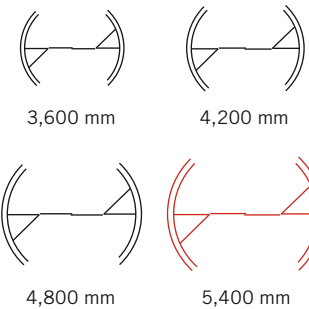


Low canopy height of only 30 cm

Broader product range. Larger internal diameter, more individuality.

The revolving door system KTC 2 is available with four different internal diameters: 3,600 mm, 4,200 mm, 4,800 mm and now also with 5,400 mm. Thanks to this

large variety, architects, designers and facility operators may realize multiple applications in various designs.



New: larger internal diameter of 5,400 mm

DORMA revolving door systems – it all revolves around climate control.

1. Revolving doors are sensible climate barriers

Thanks to their construction, revolving door systems reduce the loss of heated and/or cooled air to the outside. Brush seals from natural hair seal the entrance off on three sides; thus the door is never actually open although it rotates and is accessed by users.

2. Revolving doors save energy and cut costs

Thanks to the special climate barrier feature, the energy loss in the entrance area is very low – which in turn cuts the cost for heating and/or air conditioning.

3. Revolving doors create a constant and comfortable climate

Our revolving door systems protect your building from unpleasant draughts, noise, dirt and dust so that visitors and staff always benefit from a constant and comfortable climate.

4. Revolving doors – an investment that pays off

DORMA revolving door systems are especially energy-efficient so that purchase costs are amortized in the medium term.

KTC 2. Twice as much user convenience for hotels and guests.

This intelligent revolving door system with an integrated automatic sliding door will convince both the facility operator and the users of its various benefits.

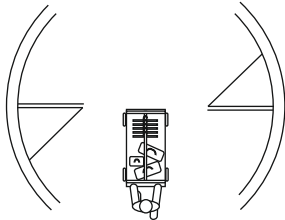
Revolving door system for standard traffic capacities

As long as the number of guests is on an average level, simply adjust the “revolving

door” mode. The system’s “Slim Design” will provide your entrance area with an inviting look while special brush seals create a sensible climate barrier between the interior and the exterior of the building. This feature helps to reduce heating or air conditioning costs, while the low energy consumption of the drive motor is a further benefit that should not be forgotten.

Sliding door for heavy user traffic

Setting the program switch to “automatic sliding door” mode will allow a large number of guests to use the door or bulky items to be carried through with ease.



Revolving door data for user traffic

Speed at the wing edge: 0.6 m/s
Required space per person: 0.7 m²
Utilization degree per chamber: 80%

Diameter:	3.6 m	4.2 m	4.8 m	5.4 m
People per chamber:	3	5	6	7
People per hour*:	1,145	1,637	1,718	1,764

*Theoretical passage capacity per hour
= Number of wings x people per chamber x rotations per minute x 60 min.

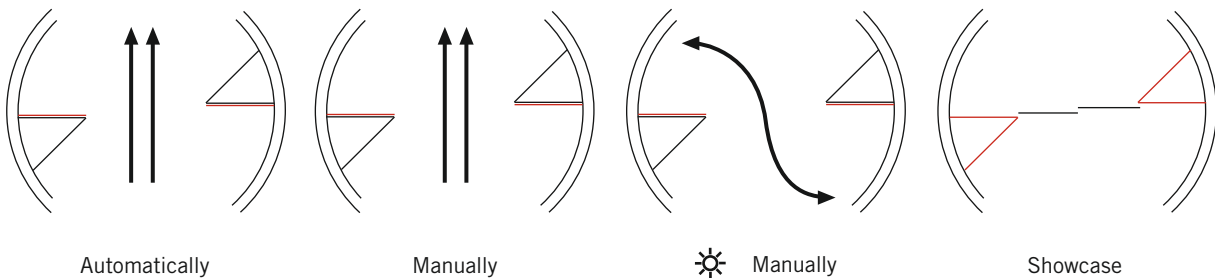
Revolving door data for wheelchair users

Speed at the wing edge: 0.3 m/s (50% rotational speed)
Required space per person: 2.0 m²
Utilization degree per chamber: 60%

Diameter:	3.6 m	4.2 m	4.8 m	5.4 m
People per chamber:	1	1	1	1
People per hour*:	191	163	143	120

*Theoretical traffic capacity per hour = number of wings x (people + wheelchair per chamber) x rotations per minute x 60 min.

KTC 2. Two doors in one system – and so much more.



Suitable for application in emergency exits and escape routes*

Suitable for application in emergency exits and escape routes*

Automatic smoke and heat extraction

In the event of an emergency, the turnstile travels to starting position (parallel to the facade axle). As soon as the turnstile has reached this position, the centre of the door opens automatically in order to create an emergency exit and a smoke outlet.

Fire detection function (for ventilation purposes)

The fire detection function is designed for preventive fire protection. Just activate the fire detector and the KTC 2 travels to central position and the sliding door opens. Please note that the door must not be locked manually.

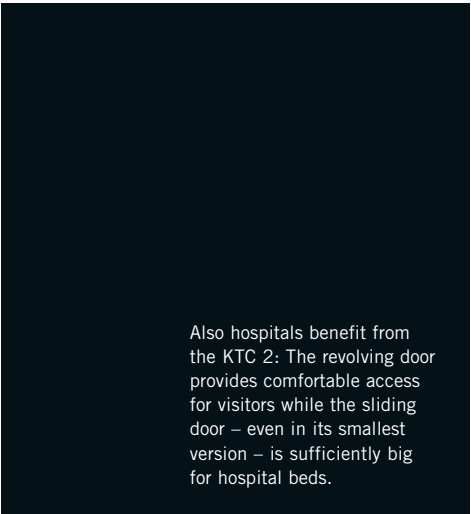
Summer configuration (for ventilation purposes)

The door wings may remain open to provide a consistently pleasant climate. This configuration is also perfectly suitable whenever bulky items, luggage or goods have to pass through the door system.

KTC 2 for presentation purposes

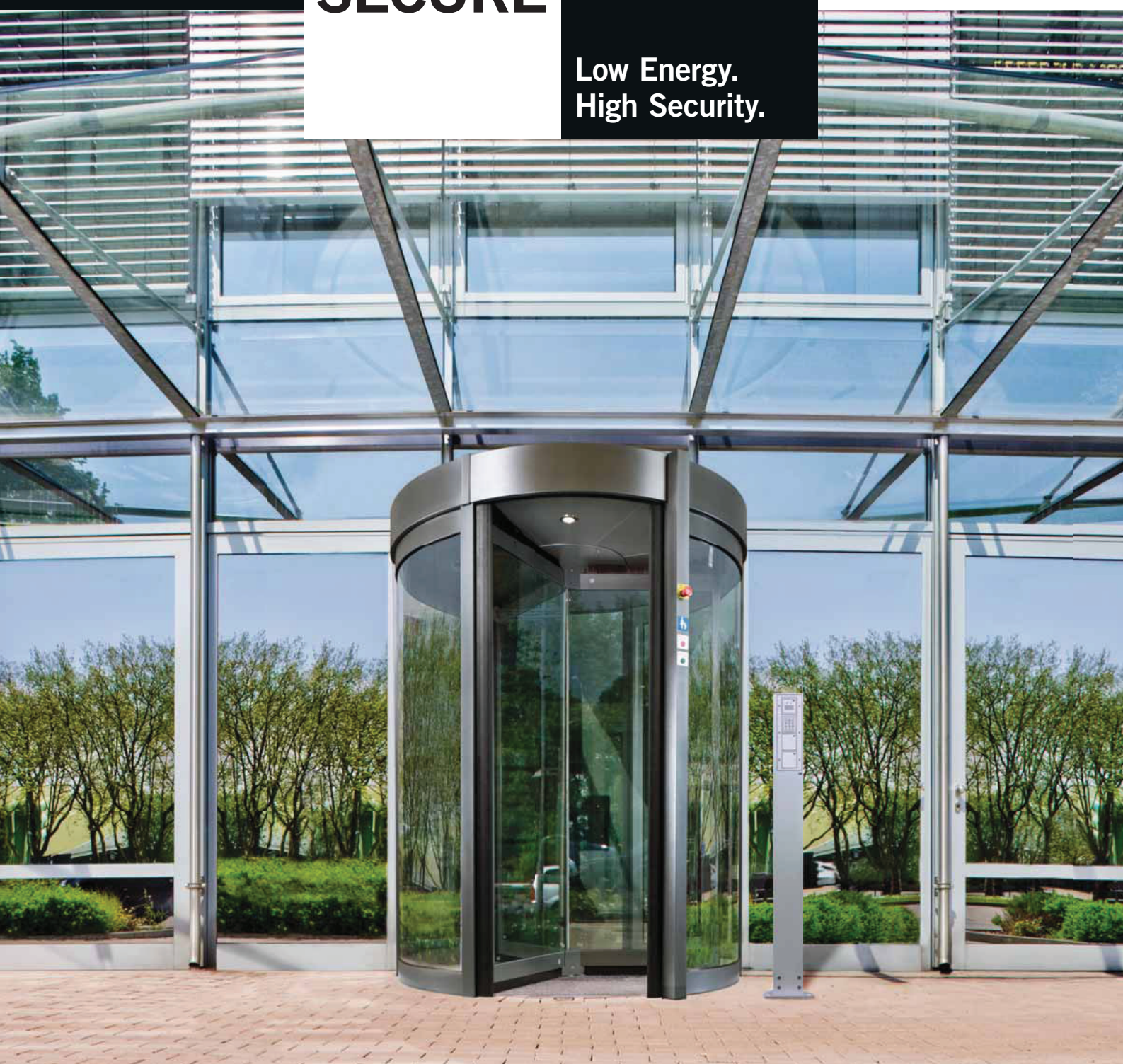
The turnstile of the KTC 2 may also serve as a showcase and turn your entrance into an attractive presentation area. Please note that the maximum load bearing capacity amounts to 30 kg per showcase.

* Please also consider the prevailing country-specific provisions.



KTV SECURE

Low Energy.
High Security.





KTV Secure with metal ceiling.

Modern revolving doors provide comprehensive safety and various benefits: KTV Secure.

1. KTV revolving doors – always more benefits.

KTV revolving door systems are perfectly suitable for installation in entrance areas where environment control coupled with elegant aesthetics are desired. Either Manual, Automatic or with Servo Assist operator – each of the numerous versions combines clear benefits as these systems help to reduce energy costs and act as comfortable climate barriers. Real hair brushes all round the door wings help to reduce heating costs and keep noise, dirt and dust outside the building – and offer protection against draughts.

2. Access control systems for improved security

The KTV Secure provides an access control system for entry, exit or both. The access authorisation is checked upon 'entry' and 'exit' and may be activated by any access control device from card swipe or keypad to fingerprint scanners. So only authorised users may enter the monitored areas, which is of particular importance inside banks, public authorities and companies with security zones.

3. Low energy motor drive

The DORMA KTV Secure is equipped with a low energy motor drive system which uses less than one third of the energy used by fully automatic revolving door operators. The secure functionality is achieved with presence sensors mounted within the ceiling and requires minimum safety devices for full BS7036 compliance. This makes the system cost effective as a complete solution and allows the possibility of upgrading existing DORMA or non-DORMA revolving doors to Secure functionality at reduced costs.

4. Convincing technology for reliable access control

One particular benefit of KTV Secure lies in the possibility of remote monitoring via an optional GSM module. Each door is issued its own IP address and can be observed and activated by mobile radio from any location. In the event of malfunctions, this can save both time and money, as the initial fault analysis can be performed externally in advance.

Its prestigious design sets a standard – KTV Secure with glass ceiling and floor-integrated drive unit.



KTV Secure – this contemporary revolving door is a flexible and complete system.

Modern and versatile thanks to its various functions.

The DORMA KTV Secure is excelled by its high flexibility. It is available as a 3 or 4 wing version. Each of these versions provides special features such as the possibility to achieve clear passage heights of up to 4,000 mm. The KTV Secure also offers various functions,

ranging from any form of access control system, activated from the entry or exit side to a Shock-Stop function. All in all the KTV Secure is a complete and customisable system: It provides designers with a variety of choices, is produced for ease of installation and maintenance and offers users the benefit of uninterrupted traffic flow.

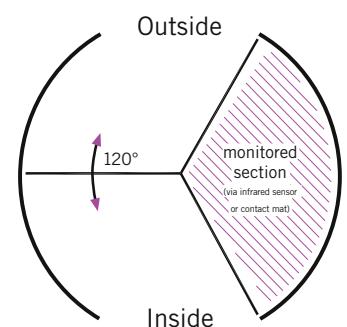
DORMA KTV: data and characteristic features

Internal diameter, 3 or 4 wing design	1,600 to 3,800 mm, all intermediate dimensions possible depending on the door version
External diameter, 3 or 4 wing design	Internal diameter + max. 96 mm without night shield
Clear passage height 3 or 4 wing design	2,100 to 4,000 mm*
Canopy height 3 or 4 wing design	17.5 to 700 mm*
Total height, 3 or 4 wing design	Clear passage height + canopy height

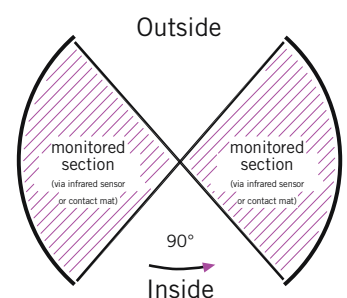
*Subject to diameter and door version



3-wing KTV



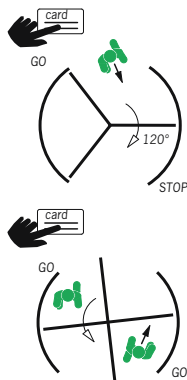
4-wing KTV



General functions of KTV Secure in 3-wing and 4-wing design

Access control on Entry and Exit

The KTV Secure is a revolving door with access control possibilities from both sides. The system is activated via devices such as a card reader, keypad or fingerprint reader by users with access authorisation. Depending on the door version, the system may rotate in one or both directions and stop and lock in position with the aid of the ShockStop gear coupling until a new pulse is triggered.



Servomatic/S (optional)

The door system is activated via radar motion detector and operated manually while the rotation of the door is support-

ed via motor power. The doors automatically rotate to the locking position after manual use.

Remote ShockStop-Function (optional)

Thanks to the gear coupling, the turnstile of the revolving door system may stop and lock in any position upon activation of a switch mounted either at the door or at a remote location.

Electromechanical bolt locking device (optional)

This device is designed to lock the revolving door system

electromechanically, for example during weekends. This system is also operable in the event of a power failure as long as an emergency power supply unit is installed.

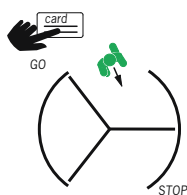
Uninterruptible power supply (optional)

Whenever the door system detects a power failure it locks in its starting position with the aid of the Shock-Stop gear coupling and electromechanically via the bolt locking device. The door system will resume its standard function as soon as the power supply is available.

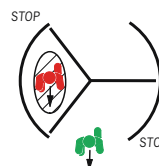
Characteristic features of KTV Secure in 3-wing design

- Sequential operation thus rotating in both directions
- One monitored section
- Only users whose access authorisation has been checked may pass the door system.

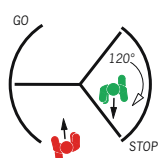
Function:



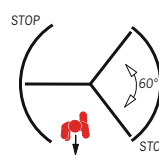
Authorised users may pass the door system automatically.



In this case the door system will reverse



The sensor will recognise any user who is not authorised to enter the monitored area.

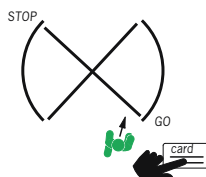


and the unauthorised user has to leave the building.

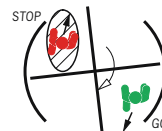
Characteristic features of KTV Secure in 4-wing design

- Continuous operation in one direction – anticlockwise
- Two monitored sections
- This version may cope with a large number of users and is therefore especially suitable for heavily frequented buildings.

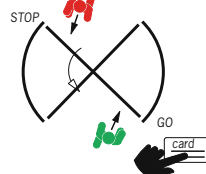
Function:



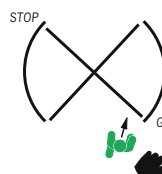
If one or two person/s get/s an access authorisation, they may pass the door system.



In this case the door stops and both users have to leave the door system.



The door system will recognise any unauthorised access (for example from the inside) while an authorised person is passing the door system.



The authorised user has to perform the authorisation procedure anew in order to pass the door system.



Card reader

Designed to read identification cards or transponders keys (contactless) Reading procedure: EM 4102, EM 4150, HITAG 1, HITAG 2, LEGIC, MIFARE. Colours: White, anthracite, silver.

Key reader

Designed to read electronically encoded CODIC CC-keys. Colours: White, anthracite, silver.



Keypad/Keypad reader

Access via an access code or PIN and/or contactless reading of identification cards or transponder keys. Reading procedure of keypad: 4- to 6-digit PIN code. Reading procedure of keypad reader: EM 4102, EM 4150, HITAG 1, HITAG 2. Colours: White, anthracite, silver.

MasterCard keypad reader

Apart from the functions of the keypad reader, this reading device is also capable of programming the MasterCard. Reading procedure: EM 4102, EM 4150, HITAG 1, HITAG 2. Colours: White, anthracite, silver.

Fingerprint reader and fingerprint reader with data comparison

This system performs a thermal scan of the finger and compares it with the data of the fingerprint that is stored on a card. Colours: White, anthracite, silver.



Access authorisation via keypad



Authorisation via keypad and MasterCard



Access cards, transponder keys and wristwatches by Junghans with integrated transponder chip

DORMA design column

Dimensions	Base section: 229 x 10 x 155 mm
(WxHxD)	Column: 142 x 1,400 x 75 mm
Weight	10.78 kg
Material	Powder-coated aluminium
Colour	Pure white, anthracite, silver.
Class of protection	IP 44, when the lids are closed
Connections for screw terminals	1 x 4 mm ² or 2 x 2.5 mm ²



KTV Secure – an intelligent combination of elegance and safety For almost every building with a security zone.

Suitable access systems for all requirements.

When buying a KTV Secure revolving door system you get a convincing and complete door system, which is activated via reading devices such as cards, fingerprints or key switches. We would especially recommend equipping the system with

one of the various accessories out of the DORMA Security (STA) product range. A decision in favour of reliable function and for a large range of access control systems that meet individual user requirements. You may, however, certainly install accessories from other suppliers.

A suitable combination for almost any kind of building.

No matter if banks, government agencies, legal authorities, airports, broadcasting stations or data processing centres, KTV Secure in combination with products from DORMA's Security (STA) range provide convincing security packages for almost

any kind of building with security zones and the prevailing individual requirements.





Door Control



Automatic



Glass Fittings and Accessories



Security/Time and Access Control (STA)



Movable Walls

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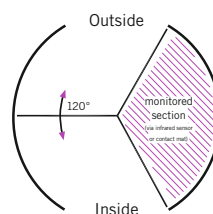
KTV Secure: Security revolving door.



A variable and complete application

The revolving door. Easy access at a turn.

DORMA KTV Secure revolving doors are available as 3-wing or 4-wing versions and capable of covering clear passage heights of up to 4 meters. They are either equipped with a manual, full-automatic or servo operator while their broad range of functions – ranging from an access control to a ShockStop-Function – provides designers with a wide range of choices.

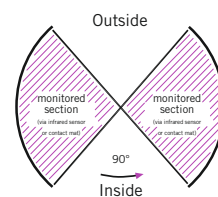


Characteristic features of KTV Secure in 3-wing design

- Sequential operation:
Means that the doors
can rotate in both
directions
- One monitored chamber

Access control system. Reliably safe.

The access control system is activated via reading devices and its current status is displayed via red or green signals. As soon as an access authorisation is given, a pulse is triggered so that the user may enter the door system. Once the user has passed through the door system, the door stops and locks in position with the aid of the Shock-Stop gear coupling until a new pulse is triggered.



Characteristic features of KTV Secure in 4-wing design

- Rotating in one direction,
anticlockwise
 - Two monitored chambers
- Especially suitable for
higher traffic flow.



Column for installation of
reading devices



Fingerprint reader and fin-
gerprint reader with data
comparison

This system performs a
thermal scan of the finger
and compares it with the
data of the fingerprint that
is stored on a card.



Keypad/Keypad reader

Access code (PIN) entry
or additional identifica-
tion card reader function.



Access authorisation
via keypad



Authorisation via keypad
and CODIC MasterCard



Access cards, transponder
keys and wristwatches by
Junghans with integrated
transponder chip

DORMA KTV Secure revolving door systems: benefits point by point

Advantages for investors and landlords

- Installation and upgrading at a low price
The DORMA KTV Secure is equipped with a low energy motor drive system which uses less than one third of the energy used by fully automatic revolving door operators. The secure functionality is achieved with presence sensors mounted within the ceiling and requires minimum safety devices for full BS7036 compliance. This makes the system cost effective as a complete solution and allows the possibility of upgrading existing DORMA or non-DORMA revolving doors to Secure functionality at reduced costs.

- Technical upgrade of the property
Replacing a normal door with a KTV Secure increases the level of technical sophistication of a building with a combination of climate exclusion and access control.

Advantages for operators and tenants

- Installation of a revolving door brings reductions in ancillary costs.
DORMA revolving doors are comfortable climate barriers between the inside and outside environment, and contribute to reducing heat loss and energy costs. They keep noise, dirt, dust and draughts outside, which reduces cleaning expenses and creates a comfortable interior ambience.

- Access control system for improved security
The access authorisation is checked upon 'entry' and 'exit' and may be activated by any access control device from card swipe or keypad to fingerprint scanners. So only authorised users may enter the monitored areas.

Investor

Facility operator

WN 053 805 51532, D, 3, BD, 09/09



Door Control



Automatic



Glass Fittings



Security (STA)



Movable Walls

KTV SECURE

Low Energy.
High Security.

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