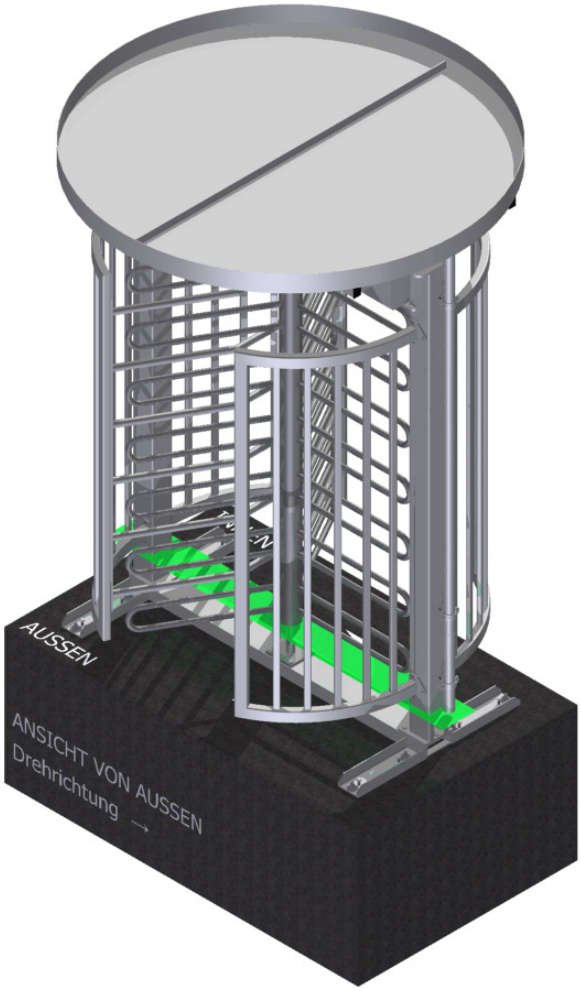
TORWERK

Turnstile Rondo



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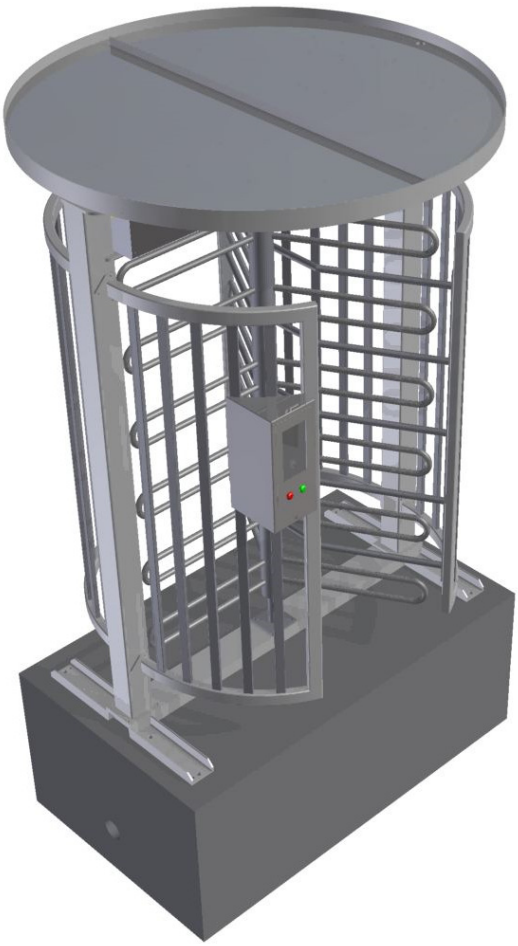

RONDO-Turnstiles are the ideal solution for the access control in outdoor areas when many people need to enter or leave within a short period of time. Because of their different drive variants RONDO-turnstiles can be precisely adjusted to their intended purpose. The **Turnstile-RONDO 1** has an electromechanical locking unit. Here the user creates the rotation, which is very popular in leisure parks and stadiums. The electromotive **Turnstile-RONDO 2** is actuated by an energy-efficient and maintenance-free MHTM™ drive unit, which is the first choice for the representative securing of outdoor areas and company premises. Both drive versions can be controlled by all common access control systems as well as optionally operated in both directions. The purely mechanical **Turnstile-RONDO 3** allows visitors to pass in one direction only and is particularly suitable for unguarded exits at swimming pools, sports facilities and parks. RONDO-Turnstiles can be individually adjusted by choosing different material and locking versions, additional components, extensions for bicycles, wheelchairs and material transportation.

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Attributes:
- reliable securing of outdoor areas and open-air grounds with a high visitor frequency
- mechanical, electromechanical and motorised version
- sensitive impact detection for the highest possible safety of people
- various options, such as the extension for a barrier-free access
- designed for 10 million people passing

Applicable for single passage control, particularly in areas that need to be monitored or secured:

- authority facilities
- industrial plants and power plants
- military facilities
- supply facilities
- airports (operating areas)
- sports and leisure facilities

Versions / Names:
DKR-Rondo 1: electromechanical drive, both-way controllable
DKR-Rondo 2: electromotive drive, both-way controllable
DKR-Rondo 3: mechanical turnstile, rotatable in one direction

Geometrical Key Figures: **Single System**

Passage Width	720 mm
Passage Height	2050 mm
Ground Clearance	90 mm
Area	1900 x 1900 mm
Partition	2400 – 2500 mm
	120°

Dimensional changes considering the locally given factors are possible.

The turnstile is manufactured as an assembly unit consisting of frame bracket, guiding elements, blocking clips, turnstile spindle and lock.

The frame bracket comprises two lateral posts and the upper supporting beam for holding the drive unit and the roof.

The person guiding elements each consist of a circularly bent closed frame with a bar infill (bar spacing approx. 120 mm) and are arranged on the frame bracket on the left and on the

right of the turnstile whereby a person guiding element is equipped with keep-off rails made of round tube.

The turnstile spindles comprise a turnstile axle made of round tube, ∅ 100 mm (V4A) and sufficiently dimensioned head and base bearings. The barrier bars made of V4A round tube and hairpin-shaped are arranged on the turnstile axle in three wings at 120°.

Easily accessible components: All components needed for the operation are stored inside the support beam. This simplifies the assembly, commissioning and maintenance significantly.

Control: Microprocessor control unit
Voltage: 110 – 240 V AC, 50/60 Hz
Power consumption: approx.50 W (without accessories)
Duty cycle: 100 %
Class of protection: IP 43

Control functions:
- turnstile blocked in both directions
- turnstile permanently open in both directions
- single opening by control device depending on the control side

Power failure: Turnstile allows free exit automatically whereas the entrance is blocked. Other combinations are possible on demand.

Base plate serial:
- 300 mm upper edge area with spacious cable entry,
- pairwise arrangement of dowel holes and levelling screws for an optimal perpendicular and flush assembly

TORWERK- Long-lasting corrosion protection in 4 steps:

The coating thickness is 260 µm, all requirements on corrosion protection stresses according to DIN EN 12944-2- C4 (long protective effect) are met.

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First-class haptics due to:

- a hermetically welded construction
- a surface free of zinc cavities
- welding seams that are ground flatly (mitre corners) after zinc coating
- no warping of the surface because of zinc cavities

Environmentally friendly procedure:

- no use of solvents
- recycling of oversprays

Options:

Colour design/ labelling:

Roof, supporting beam (drive), supporting columns and side elements can be designed in different colour tones according to RAL/DB.

Additionally, the supporting beam can be labelled with a gate specification.

Attachments:

- Terminal "S" 220 x 150 mm with panel cut-out 135 x 65 mm
- Terminal "L" 580 x 220 mm with panel cut-out 495 x 135 mm
- Terminal "XL" 580 x 310 mm with panel cut-out 495 x 225 mm

for control and communication elements in ergonomic design and spacious assembly area, attaching possible on the in- and outside or as terminal arrangement one above the other.

Signaller:

- LED-pictogram red cross/green arrow
- LED-button lights red and green
- turnstile – specification on supporting beam

Control elements:

- illuminated clearance push button, key switch, key switch on/ off
- code card reader and other communication systems are available on demand

Roofs: there are the following versions:

- **round roof built of a light supporting frame, sheet metal filling and circumferential fascia**
- diameter: 1876 mm and height: 80 mm
- drainage through the downpipe (connection nominal diameter DN 50) along the lateral

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roof edges
- optionally with 2 flat LEDs
- illumination panel on the profile underneath the roof in connection with a twilight switch
- **square roof built of a light supporting frame, sheet metal filling and circumferential fascia**
- 1876 x 1876 mm, height 80 mm
- drainage through the downpipe (connection nominal diameter DN 50) along the lateral roof edges
- optionally with 2 flat LEDs
- illumination panel on the profile underneath the roof in connection with a twilight switch

Design of the person guiding elements:

- instead of the bar filling optionally closed sheet filling or perforated sheet filling in a powder-coated version or in brushed stainless steel

Torwerk- assembly service:

Every configured turnstile is completely pre-assembled at the factory and internally wired and connected before it is delivered.

The assemblers only need to unload the turnstile onto the foundation on-site, adjust it, level it using the levelling screws and anchor it with the provided dowels.

A qualified electrician connects it to the power supply and then the turnstile is ready for operation. The time-consuming reading of manuals and sorting of components and fasteners are reduced to a minimum.

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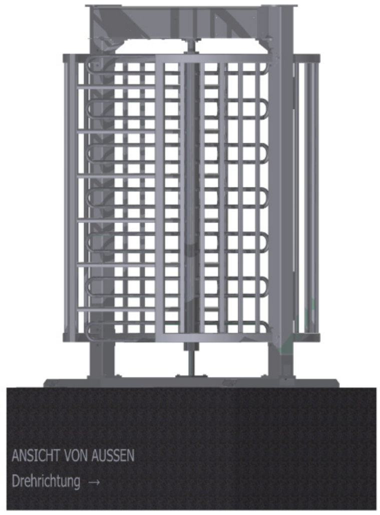

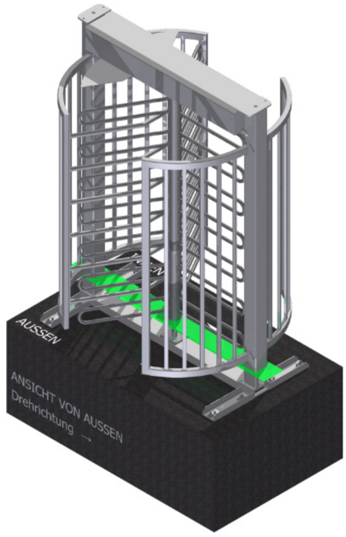

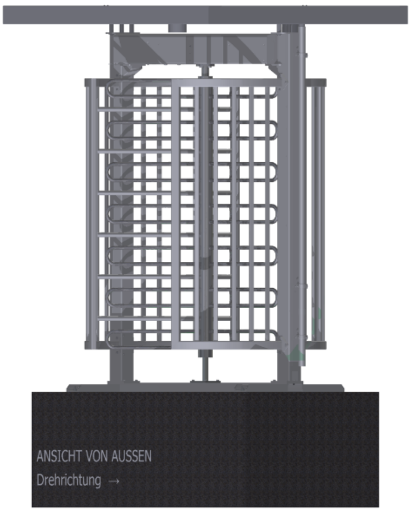

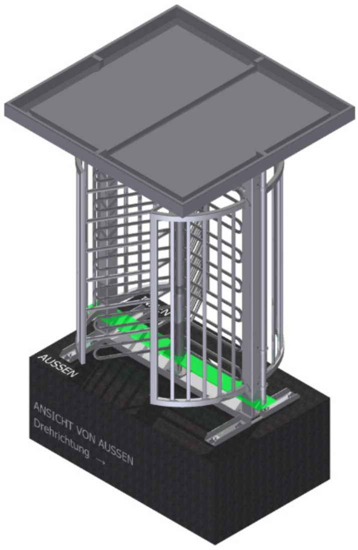

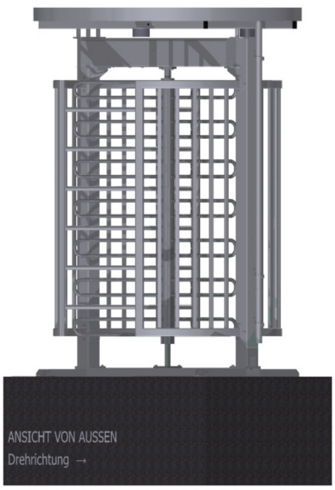

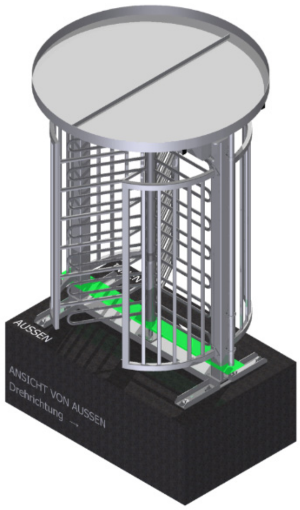

Construction and Design: Kathrin Krebs / Andreas Panek; Electrotechnical equipment: Stefan Carl / Matthias Martius

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