



2-ARM TURNSTILES

Top security and protection



2-ARM TECHNOLOGY. *The turnstile that is also an access lane*

In emergency situations, turnstiles can be an obstacle in the way of people's escape. Previous emergency exit solutions – often required in building codes – are complicated and inflexible: Bars that fold down or dangle from cables when the central fire alarm or emergency system is activated can cause injury. Not only are escape mechanisms often complicated and expensive, they require additional work by the already-harried staff to restore normal operation after the all-clear.

A completely fresh look at the problem without any preconceptions led to the development of the GOTSCHLICH 2-arm turnstiles, which guarantee maximum security, economy and comfort, both during normal operation and in special situations with no additional mechanisms.

The advantages of GOTSCHLICH 2-arm turnstiles are plain to see even during ordinary operation. People with strollers or large suitcases pass through without hindrance. Built to the right width, the passageway is also wheelchair-friendly. The need for separate access gates – and the additional space and money they require – is eliminated. With 2-arm technology, the turnstile qualifies as a barrier-free access point under current EU standards.

The mechanical design is not drastically different from that of conventional turnstiles and includes many of the same components. This keeps GOTSCHLICH 2-arm turnstiles small and inexpensive compared to other solutions.

What makes it unique is the asymmetrical configuration of the arms in the turning hub, with one 240- and one 120-degree segment, and the control system, which adjusts the speed of the different bars to maintain an even pace.

When released by the access control system, just a slight touch activates the motorized arm rotation. Optional sensors which start the rotation without contact provide even greater comfort.

In the „escape“ position, the two arms are situated beneath the turnstile body, keeping the passageway completely clear. This allows disabled persons or deliveries to pass through the turnstile and clears the way for mass exit at the end of an event. Triggered by a central fire alarm, emergency exit terminal or emergency button, this escape position allows evacuation through the entrance area without additional mechanical work.



Arm position for normal access control



Arm position for evacuation or barrier-free entry

2-ARM TECHNOLOGY. Turnstile with escape route function

Security, Economy and Comfort

Security against unauthorized access is just as high with GOTSCHLICH 2-arm turnstiles as with our long-proven 3-arm turnstiles, and at comparable investment costs. In case of emergency, especially indoors, the 3-arm option with fold-down arms has long been used as reliable safety technology. The 2-arm technology is the logical next step in development after the folding-arm turnstile. It takes the above advantages and adds a new dimension of security, economy and comfort.

Security:

- No dangling arms to stumble over.
- Immediate restoration of checkpoint mode after the all-clear means less time in the uncontrolled open phase and lowers the risk of unauthorized entry.

Economy:

- No more extra investment or space needed for disabled or stroller access gates.
- No more complicated escape mechanisms. This reduces investment and maintenance costs and increases the economic lifespan and availability.

Comfort:

- Barrier-free access for the disabled and persons with strollers or heavy luggage.
- Standard pedestrian access and barrier-free entry in the same lane. No traffic jams caused by people taking the wrong lane.
- Nearly noiseless operation.

Selected References

- United Nations Organisation, Geneva
- Salzburg Airport
- Heidelberg Funiculars
- Philips plants, Eindhoven



Certified by TÜV

The 2-arm turnstiles from GOTSCHLICH were examined in 2005 and are the only turnstiles on the market to be declared „suitable for use in escape and rescue pathways“ in extensive tests by TÜV Austria based on the EU Machine Safety Act.



OPEN GATE. Truly contact-free access control

Faster Access with Authorization

Every morning and evening, hundreds of people pass through the security check in large office buildings, nearly all of them with proper authorization. Stopping each person at the checkpoint costs valuable time. OPEN GATE turnstiles increase the rate of passage through the checkpoint without compromising security. As people enter, the reader registers their valid cards and they pass freely into the building. If a card is invalid or for some reason not picked up by the reader, the turnstile arms turn and lock, quickly and reliably, blocking further passage. At the same time an alert is triggered (silent or audible). Once the security personnel give the all-clear, the turnstile is released and the arms move back to the OPEN GATE position.

Modern handsfree card systems include card or ticket authentication from a distance. In combination with Open Gate this can mean a noticeable increase in comfort: Authorized personnel pass quickly and without hindrance through the checkpoint. This creates an optimal check rate with lower use of turnstiles and reader devices. Investment and maintenance costs drop.

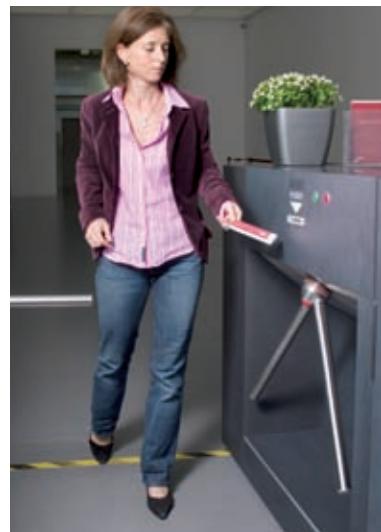
OPEN GATE is the inverse of the turnstile concept:

As long as a valid authorization is present, the 2 asymmetrical arms remain open and allow free passage.

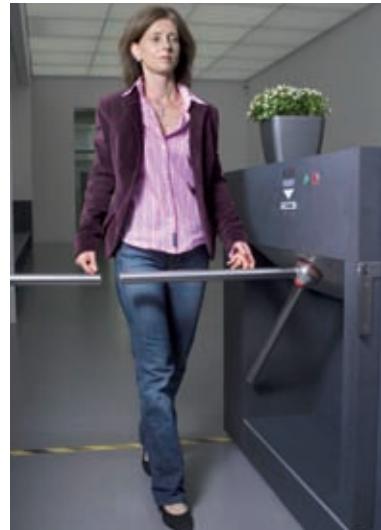
If the reader system registers no authorization for an approaching person, the arms rotate to block passage and prevent unauthorized entry.

As soon as a valid card is read, the arms rotate back to the open position.

GOTSCHLICH 2-arm turnstiles can be switched from „2-arm turnstile“ to „OPEN GATE“ mode and back at any time without technical effort, allowing cycle operation throughout the day.



Arm in OPEN GATE position for normal access control



Arm position when access is attempted without authorization

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