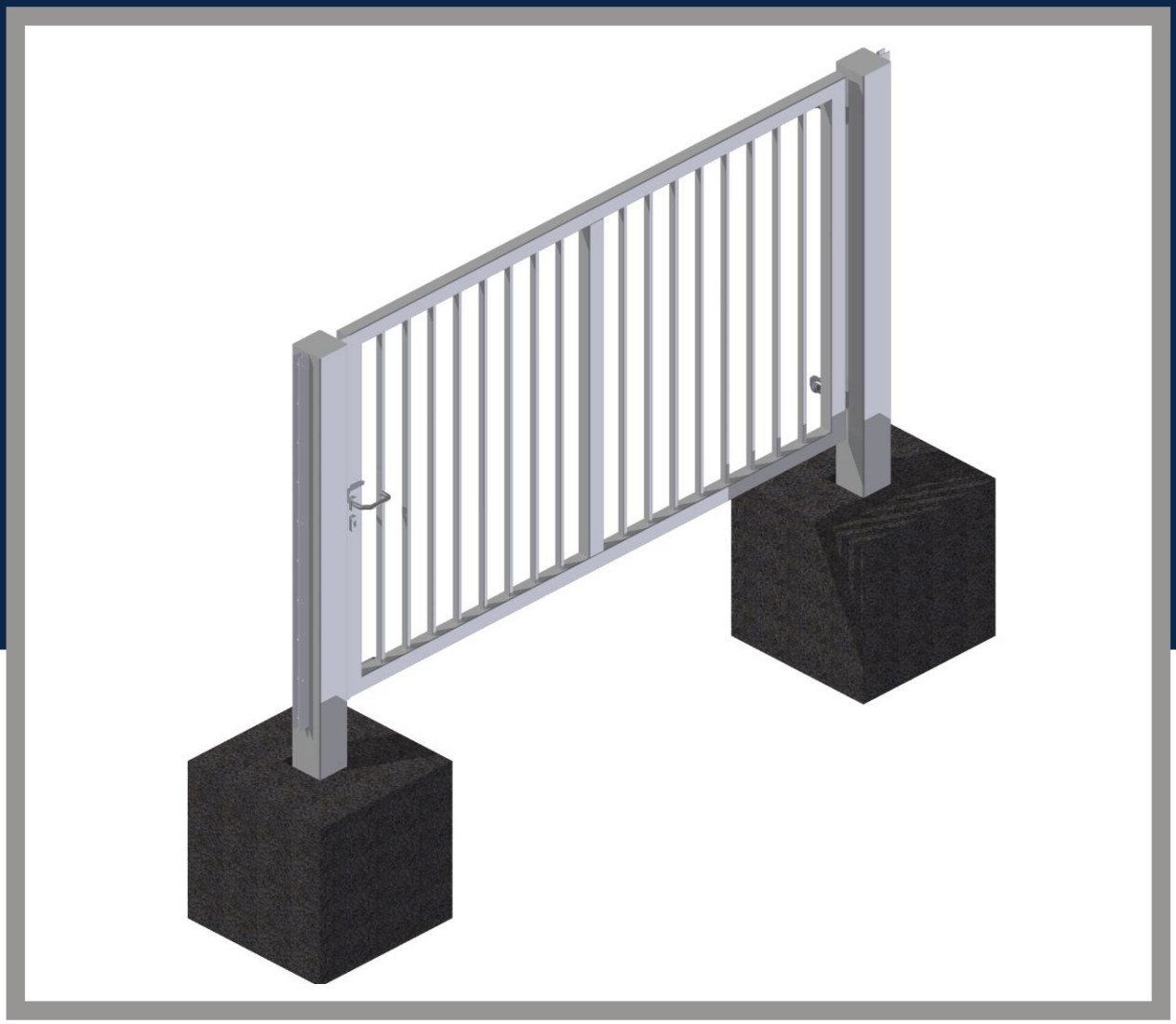
OBJEKTSICHERUNGSANLAGEN • Die Manufaktur für Objektschutz nach Maß

TORWERK

LEAF SWING GATE DFT-1H

SINGLE-LEAF, MANUALLY OPERATED



for clear widths from 4 to 20 m

LEAF SWING GATE DFT-1H

Single-Leaf Swing Gates DFT-1H are the traditional and most inexpensive solution for movable closures of an area. They offer an organised access to an enclosure, perimeter or area with low gate cycles. Swing opening the gate leaves requires space of the area, which needs to be considered when creating the entrance area, especially regarding the street course, gradient and cross slope. The circular swing areas (the size goes by the full passage width) must be kept free at all times, and they are used for the management of the property. Single-leaf Swing Gates DFT-1H can be easily adjusted to their purpose. The gate leaf solely consists of a traffic leaf with operation device, profile cylinder lock and a locking device (from 2 m width). Street cross slopes can be adapted in the construction within limits. Additional functions such as a climb over protection can be integrated without any problems as long as they do not expand laterally (conflict fence connection respectively narrowing the clearance zone). The opening angle is flexible, determinable between minimum 90° up to maximum 180°. For the representative securing of outdoor and facility areas you can integrate a variety of gate fillings matching the facade or fence. Swing Gates DFT-1H are predestined for side entrances with a low vehicle frequency. The modern added value comprises the inexpensive protection of vehicle and passenger traffic. Due to its simple structure existing plant entrances can be easily expanded without immense structural work.

Attributes:

- reliable securing of outdoor areas with a low vehicle and visitor frequency (ordering nature)
- huge need for space for leaf swing area
- simple and self-explanatory operation
- robust construction
- high resistance against environmental influences
- flexible in width and height
- various options, for example, adapting street slopes, climb over protection, variety of gate fillings
- inexpensive solution

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Use:
Manually operated single-leaf gates DFT – 1H are mainly used when gates stay open during the periods of service and/ or the vehicle separation and the access of persons is handled differently or not at all, or access areas are only opened sporadically and for special reasons (fire brigade, property maintenance and so on).

- authority facilities
- industrial plants and power plants
- military facilities
- supply facilities (possible)
- airport (in the event of average)

Versions / Names:
DFTü-1H: single-leaf swing gate, manually operated
DFT-1H: single-leaf swing gate, manually operated

Geometrical Key Figures:	DFTü-1H 1000	DFT-1H 2500	DFT-1H 3500
opening width	up to 1250 mm	up to 2500 mm	up to 3500 mm
gate height	up to 5000 mm	up to 5000 mm	up to 2500 mm
ground clearance gate	on average 70 mm	on average 70 mm	on average 70 mm
post	minimum ST* 80	minimum ST* 120	minimum ST* 150
gate hinges	M16	M16	M24
frame	RT* 60/40 mm	RT* 60/40 mm	RT* 80/60 mm
reinforcement			RT* 80/60 mm
standard filling	RT* 30/20 mm	RT* 30/20 mm	RT* 30/20 mm
bar spacing	maximum 120 mm	maximum 120 mm	maximum 120 mm
lock	mortice lock	mortice lock	mortice lock

Geometrical Key Figures:	DFT-1H 4000	DFT-1H 5000	DFT-1H 8000
opening width	up to 4000 mm	up to 5000 mm	up to 8000 mm
gate height	up to 2500 mm	up to 2500 mm	up to 2500 mm
ground clearance	on average 70 mm	on average 70 mm	on average 70 mm
gate post	minimum ST* 200	minimum ST* 250	minimum ST* 300
gate hinges	M20	M24	M24
frame	RT* 80/60 mm	RT* 100/60 mm	RT* 120/80 mm
reinforcement	RT* 80/60 mm	RT* 80/60 mm	ST* 80 mm
standard filling	RT* 30/20 mm	RT* 30/20 mm	RT* 30/20 mm
bar spacing	maximum 120 mm	maximum 120 mm	maximum 120 mm
lock	mortice lock	mortice lock	mortice lock

* RT = rectangular tube, ST = square tube

LEAF SWING GATE DFT-1H

The **Single-Leaf Swing Gate DFT-1H** is manufactured as an assembly unit consisting of door respectively gate leaf, locking device (from 2 m width), gate posts with adjustable hinges as well as fence connectors. The **gate leaf** is welded torsion-resistant and dimensioned according to the static requirements. The gate filling is welded in between upper and lower beam (bar spacing maxi-mum 120 mm). The **leaf** is equipped with a mortice lock and a locking unit or lever catch (from 5 m) and a locking device. The design of the closing strip or the stop depends on the opening direction of the gate (opening outwards: closing strip on traffic leaf, opening inwards: closing strip on slam post). The **gate posts**, rainproof-covered, are equipped with adjustable gate hinges and hold the gate leaf.

The **manual locking** happens by means of a robust lever catch on the slam post. The locking of the leaf is achieved by an espagnolette bolt or optionally by a side locking device on the ground.

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.

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

LEAF SWING GATE DFT-1H

Options and accessories:

Colour design/ labelling:

Gate posts and gate leaves are designable in colour tones according to RAL/DB.

Design gate leaves:

- instead of bar filling, fence type filling
- closed sheet metal filling or perforated steel plate filling in a powder-coated version
- ribbed or straight sheet metal, one-sided or two-sided
- lead frame, crimped mesh, mesh mats, meshed metal baffle

Gate Monitoring:

Optionally, VdS- approved lock switch and magnet contacts along with flexible cable ducts, assembly spaces and empty conduit connections can be set up.

Automatic Gate Closer:
with 500 N thrust, suitable for traffic leaves up to 2.50 m width and open-pored filling

Fire-Brigade Key Depot:
by KRUSE in different versions

Tandem Mortice Lock:
with 2 profile cylinder locks in OR-circuit

Panic Locks:
in connection with a finger protection

Grounding Connections:

- lug on gate post for joint flat steel 30 or round 10 mm (Dehn)
- flexible ground cable with gate leaf/ gate post connection

Climb-over and crawl-under protection

- serrated band 45 mm high or steel tips 50 x 10 mm, 50 mm space
- barbed wire in ... rows on vertical holders (approx. 2 m space between holders
- barbed wire in ... rows on Y-holders (approx. 2 m space between holders

Torwerk-assembly service:

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Every configured **Leaf Swing Gate DFT-1H** is delivered in individual subassemblies. Gate leaf and gate posts are pre-mounted but are delivered separately stored. The assemblers need to set the gate posts into the prefabricated sleeve foundations, align them and set them in concrete. After an appropriate cure time the gate leaf is mounted to the adjustable hinges. They need to be aligned so the gate closes properly without jamming. The space between outer side rail and gate post is approximately the same.

Now the ground sleeve for the locking device for the espagnolette bolt of the leaf's locking device respectively the side locking device can be fastened and set in concrete.

Make sure that the opening angle is first limited where the widest possible passing width is reached and no risk of accident can be caused by free-standing side locking devices (risk of stumbling respectively hazard location vehicle).

Make sure to mount diagonal supports if wire mesh, welded mesh or tension wires are connected to the gate posts to always ensure the proper working of the gate lock.

Leaf Swing Gate DFT-1H

Construction and Design: Kathrin Krebs / Siegmund Huth

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