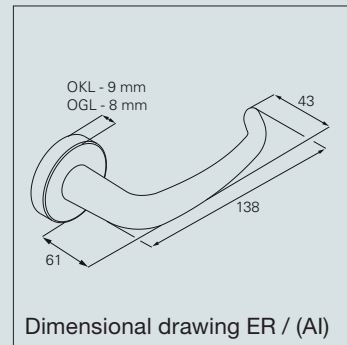
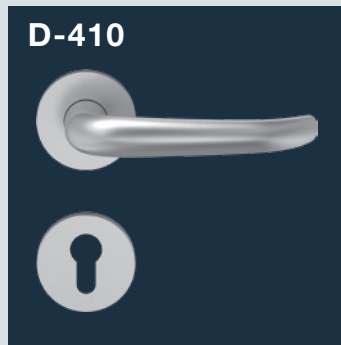


Product family D-400

Ulm handle

The archetype of the U-shaped handle was named after the Ulm School of Design where it was first used in the 1950s. The draft was based at the time on the door handles of trains run by the Swiss railway.



Supplementary versions



Square spindle 9 mm for all fire protection versions (except WC)



You will find further combinations in the security fittings section on page 26.



ER	4	D9	-	B1*	1	5	0	B/U
----	---	----	---	-----	---	---	---	-----

D9 = MPA **plus** - 1 million test cycles



ER	4	7	-	B1*	1	4	0	U
----	---	---	---	-----	---	---	---	---

*Version 9 mm with fire protection
Version 8 mm without fire protection but with "0" instead



Material / finish
Stainless steel



You will find further combinations in the panic fittings section on page 31.

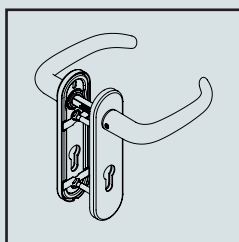


Material / finish
Aluminium



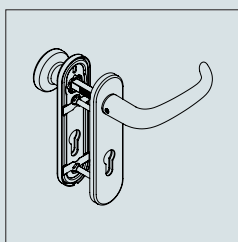
We also offer solutions to match your individual requirements. Just contact us!

Wood, steel and stainless steel doors / D-410 short plate / knobs



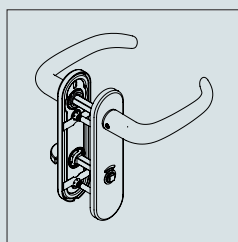
PZ 8 mm

PZ 9 mm **F**



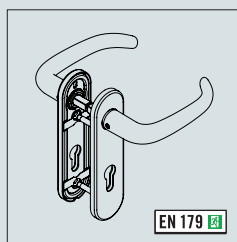
Knob-lever 8 mm

Knob-lever 9 mm **F**



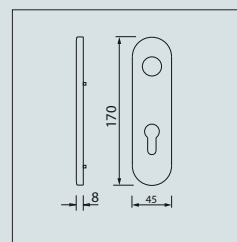
WC 8 mm

WC 9 mm

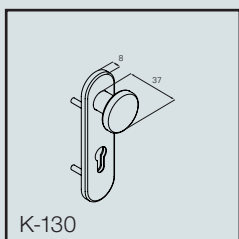


PZ 9 mm **F**

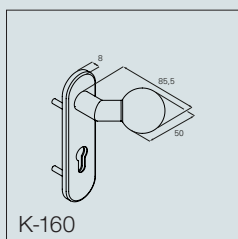
Split spindle



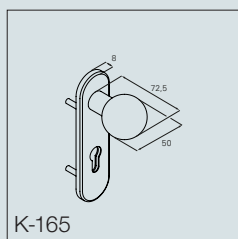
Dimensional drawing



K-130



K-160



K-165

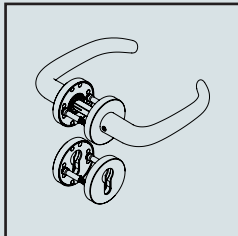
Wood, steel and stainless steel doors / D-410 round rose / knobs



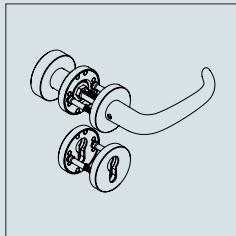
OKL Magis



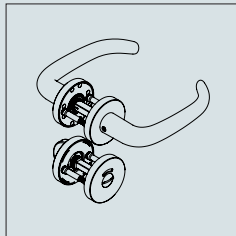
OGL



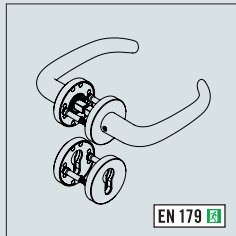
PZ 8 mm
PZ 9 mm **F**



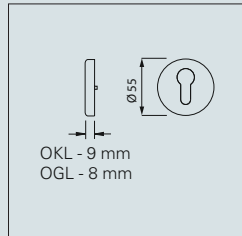
Knob-lever 8 mm
Knob-lever 9 mm **F**



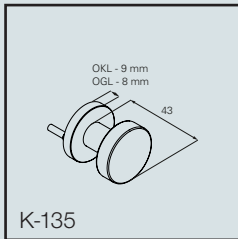
WC 8 mm
WC 9 mm



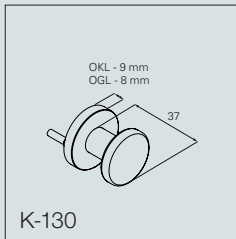
PZ 9 mm **F**
Split spindle



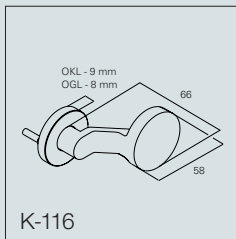
OKL - 9 mm
OGL - 8 mm
Dimensional drawing



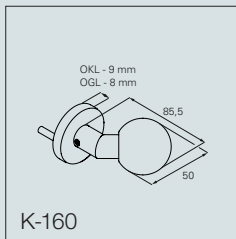
K-135



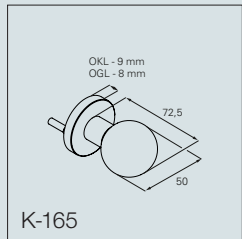
K-130



K-116



K-160

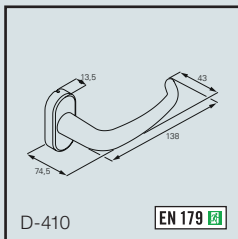


K-165

Profile frame doors / oval rose / knobs

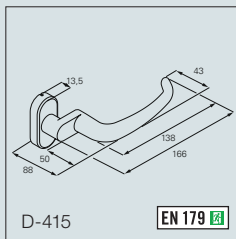


OGL



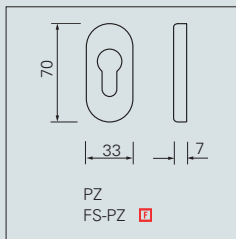
D-410

EN 179 **F**



D-415

EN 179 **F**

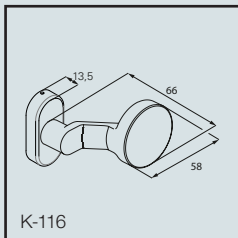


PZ
FS-PZ **F**

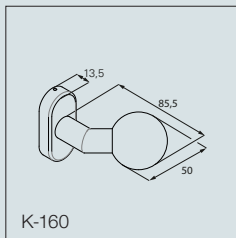
9 mm **F**

9 mm **F**

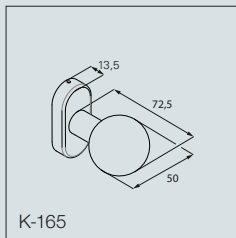
Dimensional drawing



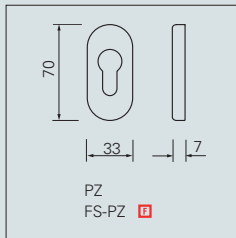
K-116



K-160



K-165



PZ
FS-PZ **F**

9 mm **F**

9 mm **F**

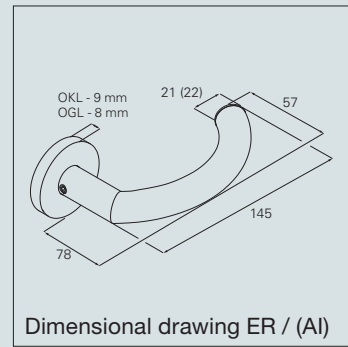
9 mm **F**

Dimensional drawing

Product family D-500

Hand-shape handle

As far as the typology is concerned, this handle constitutes an ergonomic connection between the Frankfurt mitred handle and the Ulm handle. The design of this factory design draft D-500 is discreet, easy to grip and oriented towards the direction of movement.



Supplementary versions



Square spindle 9 mm for all fire protection versions (except WC)



You will find further combinations in the security fittings section on page 26.



ER	4	D9	-	B1*	1	5	0	B/U
-----------	---	----	---	------------	---	---	---	-----

D9 = MPA **plus** - 1 million test cycles



ER	4	7	-	B1*	1	4	0	U
-----------	---	---	---	------------	---	---	---	---

*Version 9 mm with fire protection
Version 8 mm without fire protection but with "0" instead



Material / finish
Stainless steel



You will find further combinations in the panic fittings section on page 31.

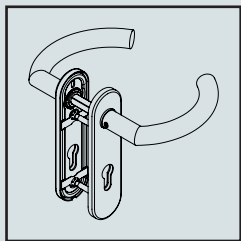


Material / finish
Aluminium



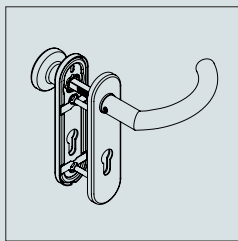
We also offer solutions to match your individual requirements. Just contact us!

Wood, steel and stainless steel doors / D-510 short plate / knobs



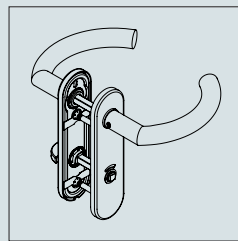
PZ 8 mm

PZ 9 mm **F**



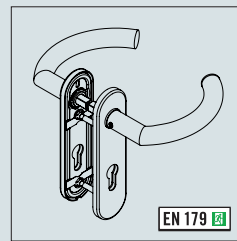
Knob-lever 8 mm

Knob-lever 9 mm **F**



WC 8 mm

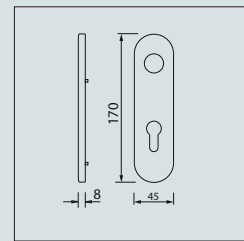
WC 9 mm



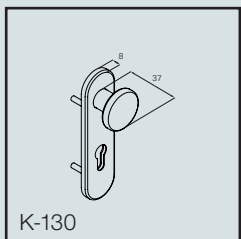
PZ 9 mm **F**

Split spindle

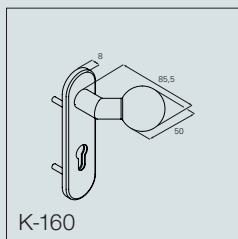
EN 179



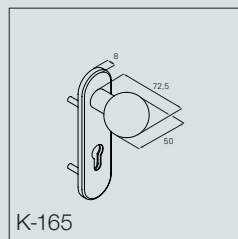
Dimensional drawing



K-130



K-160



K-165

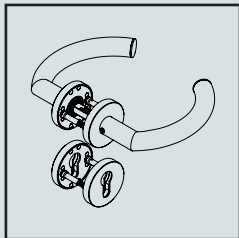
Wood, steel and stainless steel doors / D-510 round rose / knobs



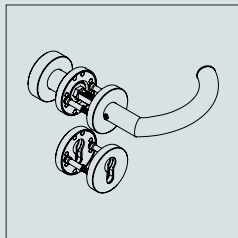
OKL Magis



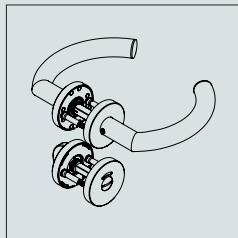
OGI



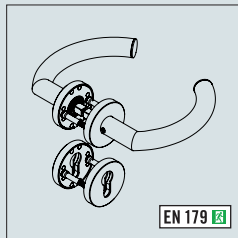
PZ 8 mm
PZ 9 mm **F**



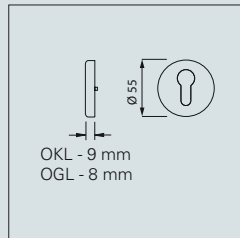
Knob-lever 8 mm
Knob-lever 9 mm **F**



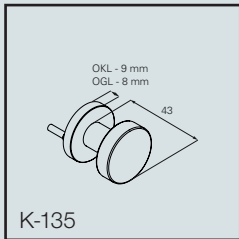
WC 8 mm
WC 9 mm



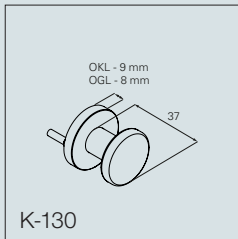
PZ 9 mm **F**
Split spindle



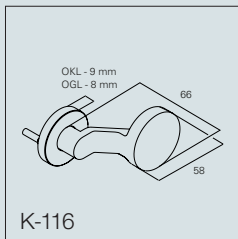
Dimensional drawing



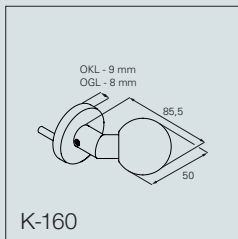
K-135



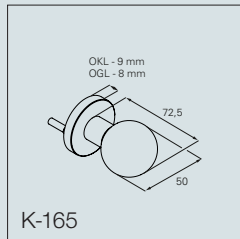
K-130



K-116



K-160

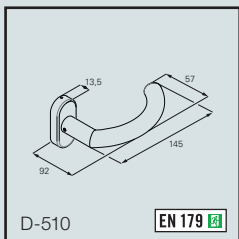


K-165

Profile frame doors / oval rose / knobs

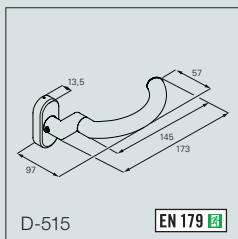


OGI



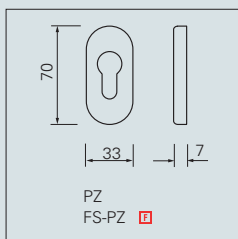
D-510

EN 179 **EN**



D-515

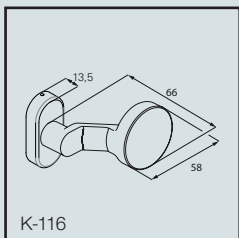
EN 179 **EN**



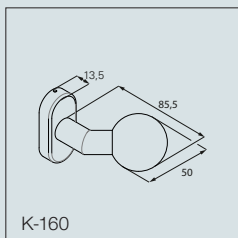
PZ
FS-PZ **F**

9 mm **F**

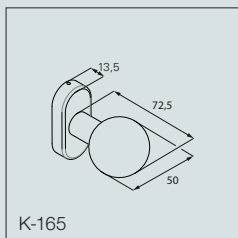
9 mm **F**



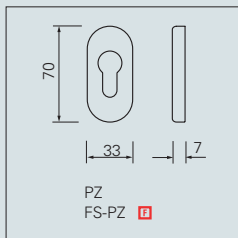
K-116



K-160



K-165



PZ
FS-PZ **F**

9 mm **F**

9 mm **F**

9 mm **F**

Dimensional drawing

Security

Protection against burglars



These days, the subject of security is becoming more and more important. It is an issue that is not only relevant for life in the city, but also in the suburbs and in rural areas. Doors that are equipped with a high security standard and cannot be broken open, levered out or drilled open easily make it difficult for burglars to gain unauthorised access. In addition to poorly secured entrance doors, it is mainly access doors to basements, utility rooms or attics which tempt almost no-risk “breaking” due to the instability of the doors themselves, the hinges and warded lock equipment often used. In order to successfully counter this trend, Hörmann offers a wide range of security fittings and variants that are convincing in terms of both **design and function**.

DIN 18 257

DIN 18 257 is the standard for protective handles, which are divided into one of the four available resistance classes (ES0, ES1, ES2, ES3) depending on their security level.

EN 1906

DIN EN 1906 only defines performance parameters; handle dimensions are not taken into account. In addition, a classification system is introduced which is intended to guarantee product comparability. Door handles tested in accordance with **DIN EN 1906** must be marked using an 8-digit classification key.

According to DIN 18257	According to DIN EN 1906	Protective effect
ES 0	Class 1	Low burglar resistance
ES 1	Class 2	Burglar resistance
ES 2	Class 3	High burglar resistance
ES 3	Class 4	Extremely high burglar resistance

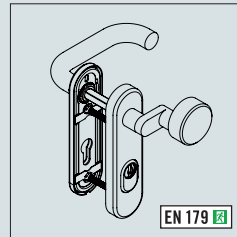
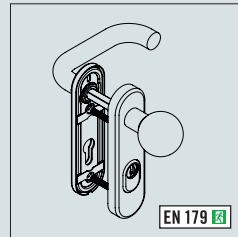
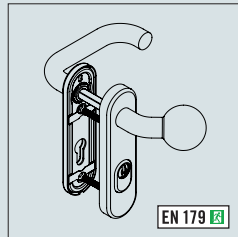
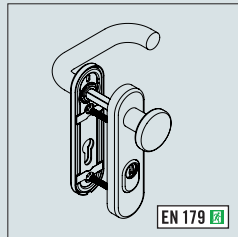
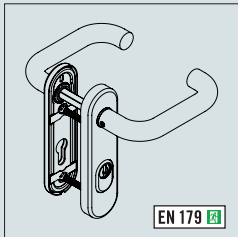
Wood, steel and stainless steel doors / ES 1 - short plate



4 7 - B1 1 4 2 U 8 mm *

4 7 - B1 1 4 2 U 9 mm *

* Version ES 1 ER



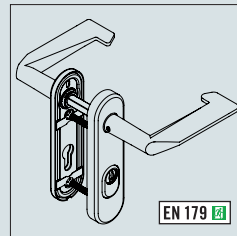
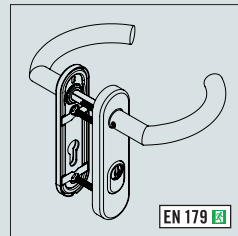
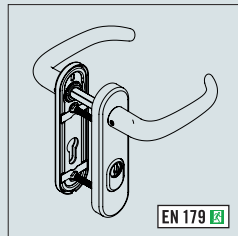
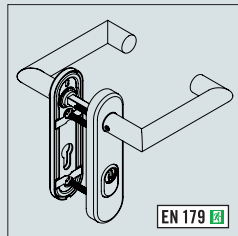
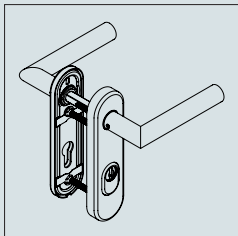
D-110 D/D ZA

D-110 / K-130 ZA

D-110 / K-160 ZA

D-110 / K-165 ZA

D-110 / K-110 ZA



D-310 D/D ZA

D-330 D/D ZA

D-410 D/D ZA

D-510 D/D ZA

D-830 (1079) D/D ZA
(D-810 (1073) D/D ZA)

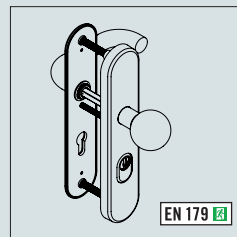
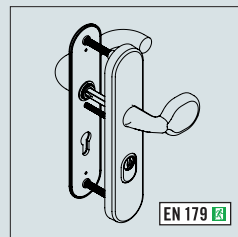
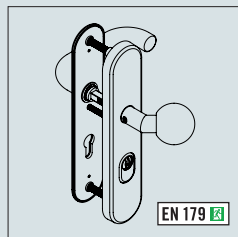
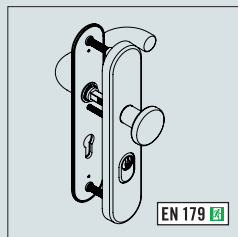
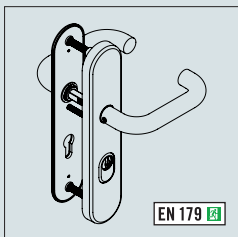
Wood, steel and stainless steel doors / ES 2 - ES 3 - long plate



4 7 - B1 1 4 2 U 8 mm *

4 7 - B1 1 4 2 U 9 mm *

* Version ES 1 ER



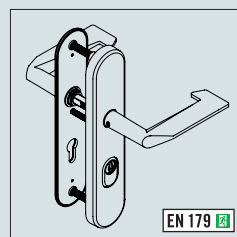
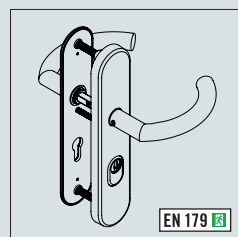
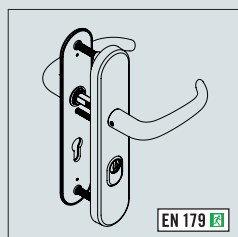
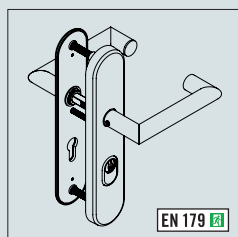
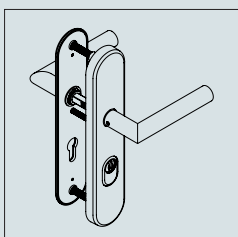
D-110 D/D ZA

D-110 / K-130 ZA

D-110 / K-160 ZA

D-110 / G-160 ZA

D-110 / K-165 ZA



D-310 D/D ZA

D-330 D/D ZA

D-410 D/D ZA

D-510 D/D ZA

D-830 (1079) D/D ZA
(D-810 (1073) D/D ZA)

Accessibility for all

Age-appropriate building design



Handles for barrier-free doors must have a shape that is favourable to grip and be oriented to hand ergonomics. A **rounded handle shape** is favourable, since it stops the hand slipping off the handle while pressing downwards. Sharp edges should be avoided, since these can injure people with spastic paralysis or awkward movements. Equally, the bent shape of the handle prevents sleeves getting caught as people pass. **Longer handles** reduce the force needed to open the door thanks to their lever effect. In addition, they make opening by elbow much easier. For these reasons, these types of handles are preferred in hospitals. The advantage of the U-shaped handle lies in its second 90 degree bend. The handle sets are suitable for property and fire protection doors and achieve the permanently required values, taking the special OKL Magis bearing technology due in part to the larger handle projection into account.

DIN 18040

Barrier-free planning, building and living

DIN 18040 and other standards deals with the creation of planning and building-related prerequisites for guaranteeing the human rights and basic rights formulated in the German Constitution and UN Disability Rights Convention - in particular barrier freedom, personal mobility and independent lifestyle.

Handle sets must be favourable to grip for people with restricted mobility, blind and partially sighted people. This is achieved by bent or U-shaped handles, for example.

Wood, steel and stainless steel doors / XXL handle D-190 / round rose / knobs

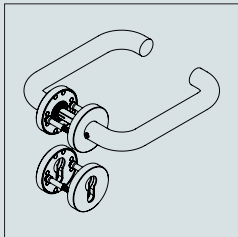


OKL Magis

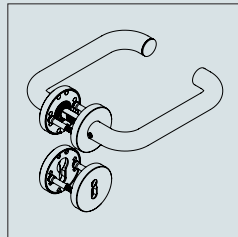


DIN 18040

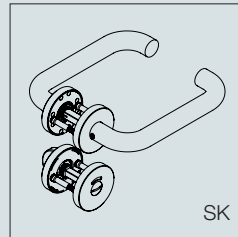
4	D9	-	0	1	5	0	B/U	8 mm	4	D9	-	B1	1	5	0	B/U	9 mm
---	----	---	---	---	---	---	-----	------	---	----	---	----	---	---	---	-----	------



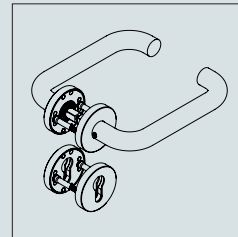
PZ 8 mm
PZ 9 mm **F**



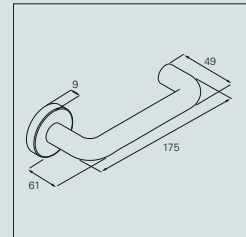
Warded lock 8 mm



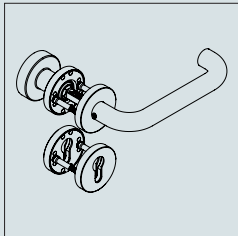
WC 8 mm



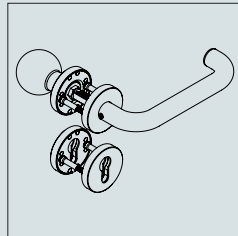
PZ 9 mm **F**
Split spindle



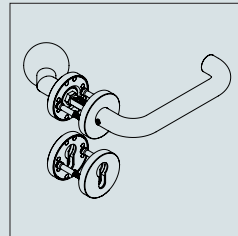
Dimensional drawing



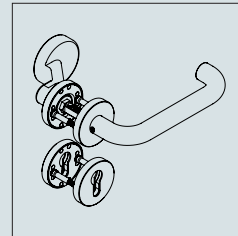
Knob-lever K-135 8 mm



Knob-lever K-165 8 mm



Knob-lever K-160 8 mm



Knob-lever K-116 8 mm

Knob-lever K-135 9 mm

Knob-lever K-165 9 mm

Knob-lever K-160 9 mm

Knob-lever K-116 9 mm

Further variants on request.

Wood, steel and stainless steel doors / XXL handle D-490 / round rose / knobs

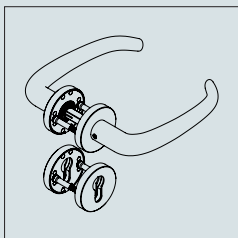


OKL Magis

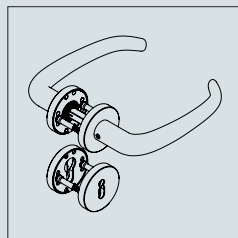


DIN 18040

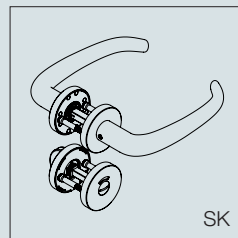
4	D9	-	0	1	5	0	B/U	8 mm	4	D9	-	B1	1	5	0	B/U	9 mm
---	----	---	---	---	---	---	-----	------	---	----	---	----	---	---	---	-----	------



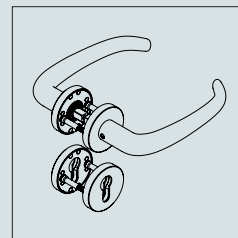
PZ 8 mm
PZ 9 mm **F**



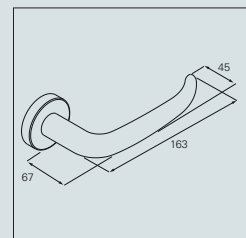
Warded lock 8 mm



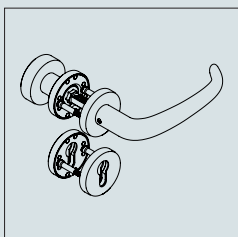
WC 8 mm



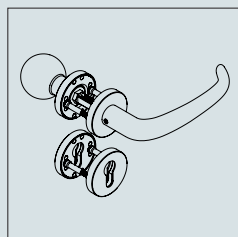
PZ 9 mm **F**
Split spindle



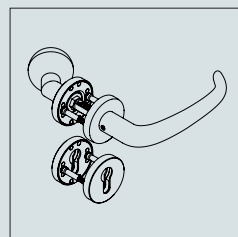
Dimensional drawing



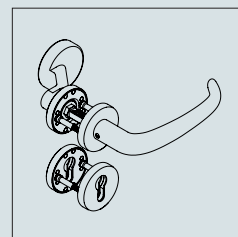
Knob-lever K-135 8 mm



Knob-lever K-165 8 mm



Knob-lever K-160 8 mm



Knob-lever K-116 8 mm

Knob-lever K-135 9 mm

Knob-lever K-165 9 mm

Knob-lever K-160 9 mm

Knob-lever K-116 9 mm

Emergency exit devices

Easy to open in the event of a fire



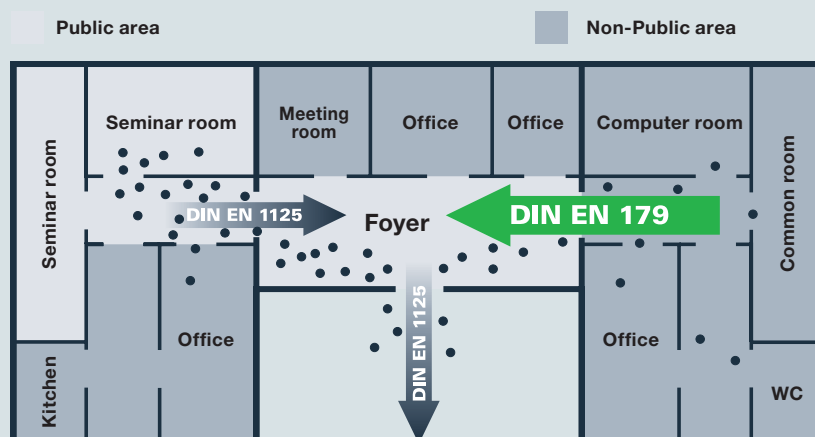
Emergency exit devices are designed for use in emergency situations. During their planning, it is assumed that users are familiar with the emergency exit and its fittings and that panic is extremely unlikely to occur. Emergency exit devices should guarantee safe and effective escape through a door by means of one single handle to unlock the escape door lock. Prior knowledge of how the latch works is a prerequisite for fast operation.

The latch secures the closed door and is released when the door handle is pressed in the direction of escape. If panic is to be expected, the use of fittings in accordance with DIN EN 1125 - Panic exit devices operated by a horizontal bar for use on escape routes - is recommended (see page 32/33).

EN 179



DIN EN 179 (emergency exit devices with lever handle or push pad) lock and trigger element are developed and manufactured matched to one another.



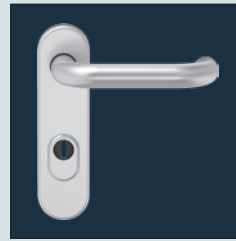
Available plate and rose versions in accordance with EN 179

Emergency exit devices in accordance with **EN 179** are used in buildings or building sections which are closed to the general public and wherever the general public can be excluded. Secondary entrances or doors in these buildings or building sections are only used by authorised persons. Emergency exit devices are operated mechanically via a lever handle or a push pad.

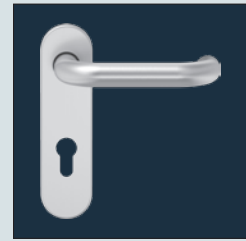
Areas of use:

- Private apartment blocks
- Classrooms in schools
- Non-public administration buildings or industrial companies
- Non-public areas of administration buildings
- Non-public areas of airports, banks, shopping centres

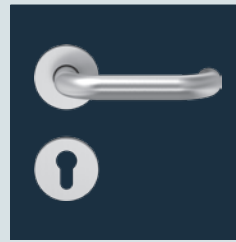
Users have prior knowledge of how to open the escape door.



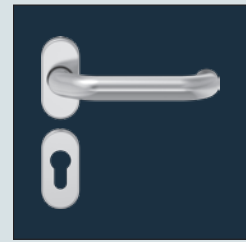
D-110 short plate
SI / ZA



D-110 short plate



D-110 round rose



D-116 oval rose

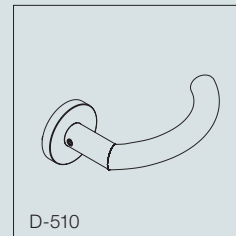
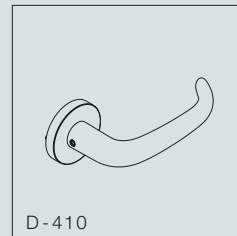
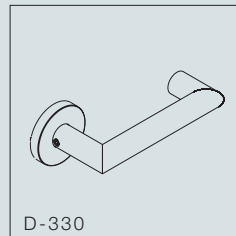
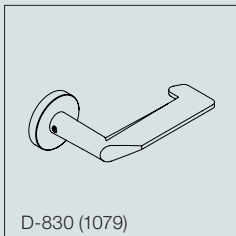
Wood, steel and stainless steel doors / lever handle shapes in accordance with EN 179 / OKL Magis / OGL / round rose



OKL Magis



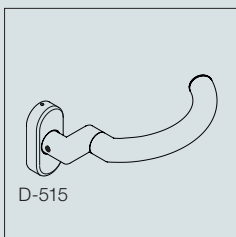
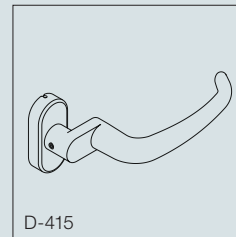
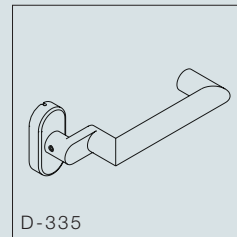
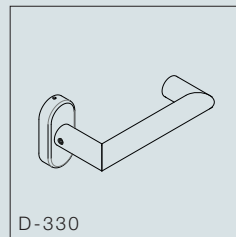
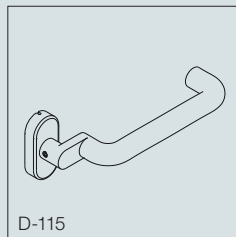
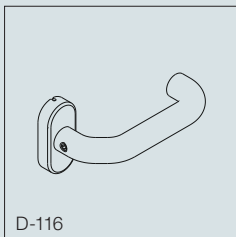
OGL



Profile frame doors / lever handle shapes in accordance with EN179 / OGL / oval rose



OGL



Panic exit devices with horizontal release bar

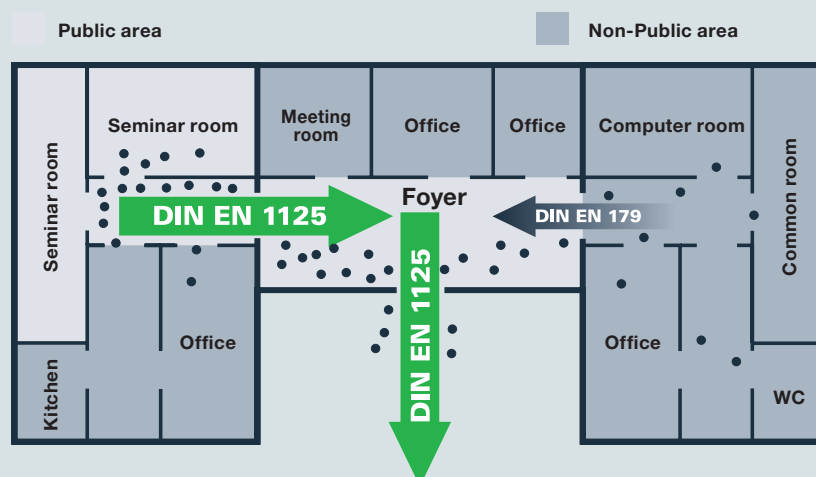
in accordance with EN 1125



Panic lock technology ensures that people can leave a danger zone at any time, even in a panic situation. All they have to do is press the horizontal operating element or a panic handle and the door will open – no matter whether the lock was locked or not. The unlocking solutions also release the exit if a crowd of people pushes against the door. And even children are strong enough to open the door and thus escape a fire or toxic smoke. For panic systems in particular, it is important to see the door as a system: not only the panic exit device, lock and fitting have to interact perfectly for the door to do justice to a potentially fatal situation – door closers and hinges also have a decisive influence on fulfilment of the demanding standard.

EN 1125

Our locking technology fulfils the Euro standards **EN 1125** (Panic exit devices with horizontal release bar).



See the overview of our product family from page 4 for which handle models are available. Only usable as an exit device system in accordance with **EN 1125** with a tested and approved lock.

Versions in accordance with EN 1125

Panic exit devices to DIN EN 1125 are used in public buildings, where the visitors do not know how the escape doors work and where they have to be able to use them in an emergency without any instruction.

Panic exit devices can be operated via a horizontal handle or push bar.

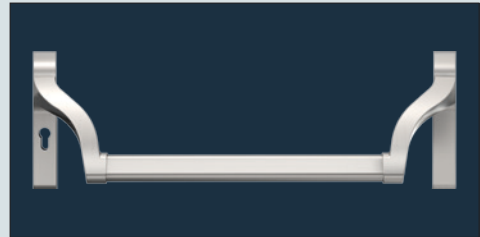
Areas of use:

- Hospitals and clinics
- Escape routes in schools and educational institutions
- Public administration buildings
- Stadiums, arenas and event locations
- Shopping centres

Users have no prior knowledge of how to open the escape door.



Push bar EPN 2000



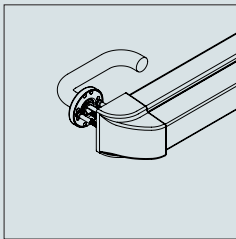
Panic bar EPN 900



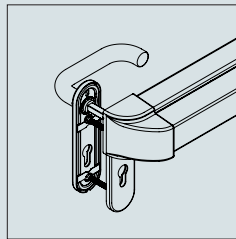
OKL Magis



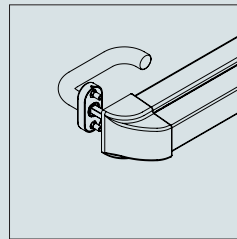
OGL



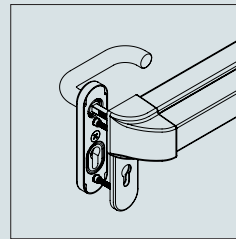
Rose



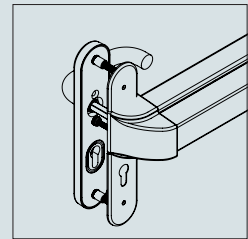
Short plate



Oval rose



Short plate SI ZA



Long plate SI ZA

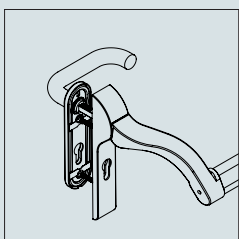
OKL Magis only available on round rose.

Alternatively possible as a counter-fitting variant in the versions illustrated above as knob-lever version. (Page 14 - 29)

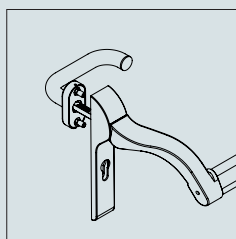
OVR also available for tubular frame.



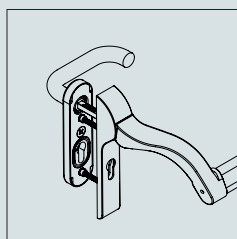
OGL



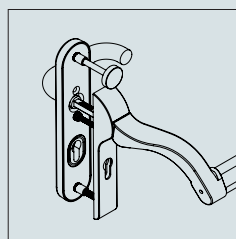
Short plate



Oval rose



Short plate SI ZA



Long plate SI ZA

Alternatively possible as a counter-fitting variant in the versions illustrated above as knob-lever version. (Page 14 - 29)

OVR also available for tubular frame.

Locks working on escape route doors

Versions and areas of application

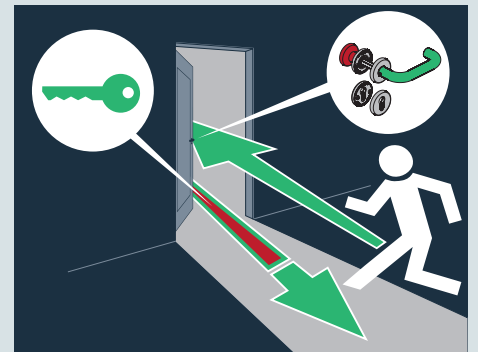
A panic lock works according to a defined principle: if the lever handle or panic bar on the inside is operated, the lock must open promptly under a defined application of force. In this case, not only the latch is drawn back, but also the locked bolt if necessary. This basic function can be refined and varied.

Panic function E – knob-lever function

Panic function E is designed for buildings with access for a defined group of people. There is a blind plate or knob fitted on the outside, the door can only be opened by key. Classic panic function via the lever handle on the inside.

Area of application: Doors to boiler rooms, lift systems, underground car parks / multi-storey car parks, warehouses and office blocks, entrance doors in apartment blocks and multi-family homes.

Suitable lock types ECO 111, ECO 121

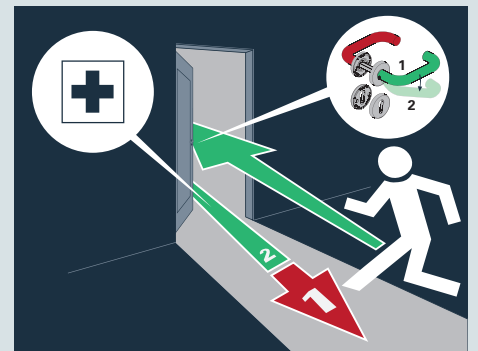


Panic function D – passage function

Panic function D is designed for pure escape doors which are not otherwise used: following a classic panic operation from the inside the door is not only opened, the outer lever handle is disengaged as well. In this setting, the door is no longer an obstacle for entry to nor escape from the building. The original function can be restored by a key.

Area of application: Escape doors in administration/ office buildings, old people's homes, secondary entrance doors (e.g. schools and hotels).

Suitable lock types ECO 112, ECO 115, ECO 122, ECO 125

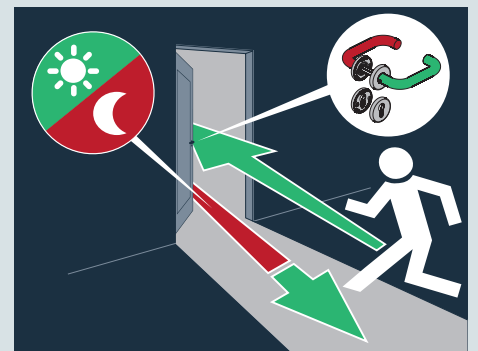


Panic function B – switchover function

Panic function B with a lever handle on both sides is designed for buildings accessible to the general public: whereas the lever handle on the inside has a classic panic function, the lever handle on the outside can be disengaged or engaged mechanically as required. Engagement of the two lever handles takes place mechanically through a two-part follower.

Area of application: Escape doors in administration buildings, old people's homes, secondary entrance doors (e.g. schools and hotels).

Suitable lock types ECO 113, ECO 116, ECO 123, ECO 126

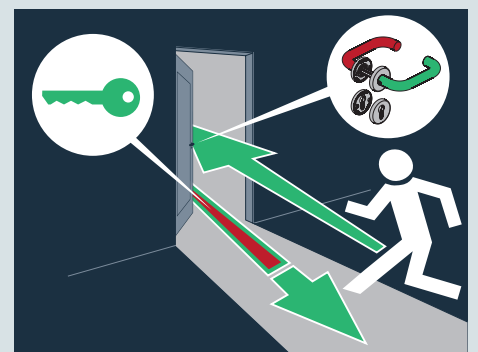


Panic function C – forced closing function

Panic function C with a lever handle on both sides is designed for buildings accessible to the general public: Whereas the lever handle on the inside has a classic panic function, the lever handle on the outside is usually disengaged (idle function) and can only be disengaged and engaged through a key position (opening position) (forced closing). However, the key can only be removed when the idle function has been restored.

Area of application: Escape doors in administration buildings, old people's homes, secondary entrance doors (e.g. schools and hotels).

Suitable lock types ECO 114, ECO 117, ECO 124, ECO 127

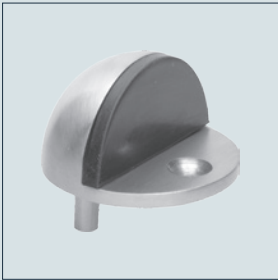


Accessories

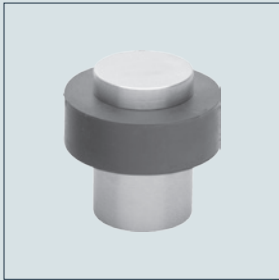
Door stops for the floor and wall



ER



Door stop BS 44



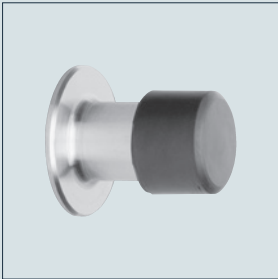
Door stop BS 45



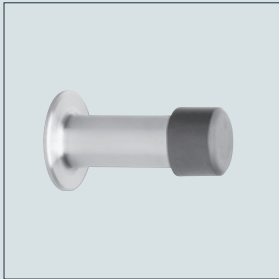
Door stop BS 65



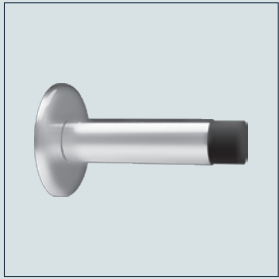
Height compensation plate for door stop BS 65



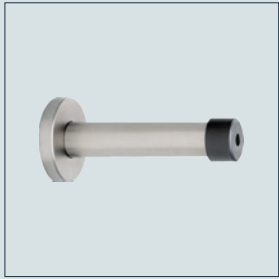
Door stop for walls WS 46



Door stop for walls WS 76



Door stop for walls WS 84



Door stop for walls WS 96

Hörmann: Quality without Compromise



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Hörmann Legnica Sp. z o.o., Poland



Hörmann Beijing, China



Hörmann Tianjin, China



Hörmann LLC, Montgomery IL, USA



Hörmann Flexon LLC, Burgettstown PA, USA



Shakti Hörmann Ltd., India

Hörmann is the only manufacturer worldwide that offers you a complete range of all major building products from one source. We manufacture in highly-specialised factories using the latest production technologies. The close-meshed network of sales and service companies throughout Europe, and activities in the USA and Asia, make Hörmann your strong partner for first-class building products, offering “Quality without Compromise”.

GARAGE DOORS
OPERATORS
INDUSTRIAL DOORS
LOADING EQUIPMENT
HINGED DOORS
DOOR FRAMES