

CES key system WD

Vertical reversible key system offering a high level of convenience and technical protection against unauthorized duplication of the key

Uncompromising security



Innovative vertical reversible key system with patent protection for the commercial and industrial building sector

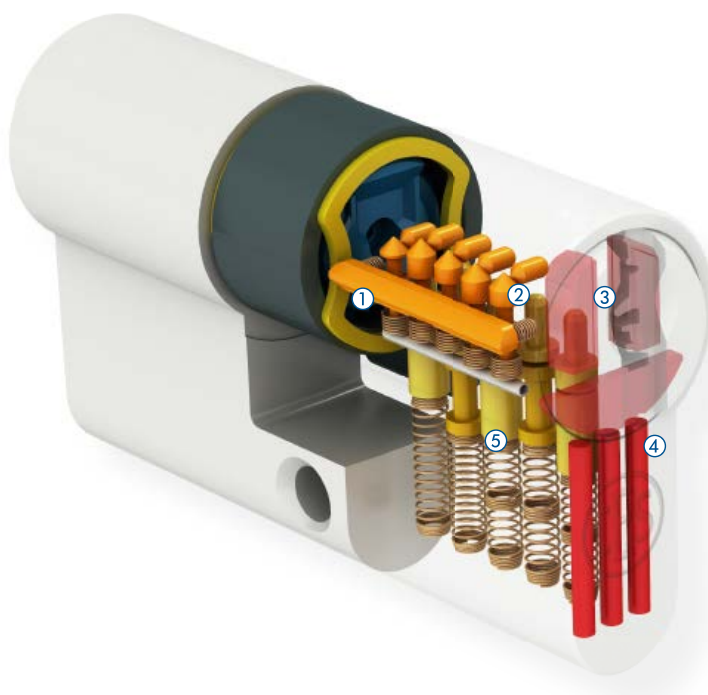
The new CES system WD is a vertical reversible key system with high locking precision. The system is designed to allow mapping and meeting the functional requirements of large and complex master key and grand master key locking systems.

Especially designed for upscale commercial and industrial buildings, this system satisfies the complex requirements on organization, convenience, economic efficiency and of course security.

The WD system not only includes technical features that offer protection against unauthorized key duplication, manipulation and attacks but also legal security as the key geometry enjoys **patent protection**. The combination of legal and technical protection against illegal duplication ensures the long-term protection of the operator's investment.

An effective **technical protection against unauthorized key copying** is provided by the actively scanned double undercut in the key section, that cannot be copied with traditional key duplication machines. A spring-loaded lateral pin performs a security scan to verify that the key section has the rib with the undercut. Moreover, the system is bump-proof already in its standard version.

The reversible key system has a **multi-paracentric profile** and offers effective protection against picking tools. Different profile variants allow an effective separation of functional sections. Unauthorized keys cannot be inserted into the locking cylinder in the first place.



- ① Active locking bar with enlarged effective locking area
- ② Active locking elements on a the second level
- ③ Multi-paracentric profile as a protection against picking
- ④ Anti-drilling and anti-pulling protection in plug and hull (optional)
- ⑤ Pin tumblers (spring-loaded)

CES key system WD

DIN 18252/EN 1303 compliant

Optimum locking security

The WD key system has 5 or 6 pin tumblers on each cylinder side and a second level offset by 90° comprising 6 active locking elements. Up to 4 horizontally guided scanning pins in the cylinder plug scan the dimples of the lateral encoding in the key section. Via a 90° deflection of the direction of movement, spring-loaded actuating elements are vertically aligned and, if an authorized key is used, provide space for the movement of the locking bar.

Integrated basic protection against drilling

Already in the standard version, all cylinders of the WD system offer an integrated basic protection against drilling. Drilling is made difficult by the use of different materials, such as hardened steel for key and driver pins. At least one driver pin and all key pins are made of hardened steel. Stepped locking pins that cant in case of a drilling attempt, prevent the opening of the cylinder.

Locking bar technology

The locking area is multiplied by the locking bar used in this system.

Strong nickel-silver key

The key is a creation of a product designer and appeals by its well balanced styling as much as by the convenience of its use. The shaping of the key tip and the cut geometry ensure an easy insertion of the key. The vertical key guidance is in line with the familiar locking behaviour. Thanks to the large key head, higher torques can be transferred. Hence, this key system is especially suitable for installation in modern doors with high thermal insulation or for use by persons with limited mobility of the hand. The key shank is at least 14 mm long and the perfect match for commercial armatures with cylinder covering.

Security card

Replacement orders and extensions are only possible against presentation of the security card supplied with the locking system.



- ⑥ Optimized key tip for precise and comfortable guiding of the key
- ⑦ Technical protection against unauthorized key duplication by actively scanned double undercut
- ⑧ Actively scanned lateral encoding
- ⑨ Handy key with a good feel
- ⑩ High quality look



Options and extras

■ Modular system

Profile cylinders of the WD system are also available in modular design. This means that – if necessary – the length of these modular cylinders can be adapted to the thickness of the door on site, saving both time and money.

■ Additional anti-drilling and anti-pulling protection

For applications in particularly security-relevant areas, the cylinders can be equipped with additional hard-metal pins and plates in the hull and on the cylinder plug face.

■ Double, single (half) and knob cylinders (nos. 910, 9710, 951½, 915) are also available as VdS certified BZ class cylinders.

■ Registered cylinders with individual locking function (RW profile)

Locking cylinders with individual locking function according to VdS 2156-1, with BZ+ classification suitable for use for switchgear of burglary alarm systems.

■ Sea-water resistance

■ Wear-resistant version

■ Colours

Cylinders are available in a wide range of colours. Upon request, cylinder halves can also be supplied in different colours.

■ Furniture / special cylinders

The WD system is also suitable for furniture and special cylinders from the CES range.

■ Electronic access solutions

WD cylinders are compatible with all electronic locking systems available from CEStronics.

■ Accessories

Locking system management software CESportier®vision



Selection of DIN 18252 / EN 1303 compliant designs

Double cylinder no. 810 WD

Brass, satin nickel-plated

Double cylinder no. 8710 WD

With emergency and danger function

Brass, satin nickel-plated

Locking on both sides

Double cylinder with freewheel function no. 8710F WD

For gear-box driven multipoint interlocks with panic function

Brass satin nickel-plated

Single (half) cylinder no. 851 1/2 WD

Brass, satin nickel-plated

Cam adjustable in 12 positions

Knob cylinder no. 815 WD

Brass, satin nickel-plated

One side locking, the other side aluminium knob, F1, various knob shapes available (figure shows shape H)

Cam cylinder no. 5558/30 WD

Brass, polished nickel-plated

Locking movement 90°

Locking direction as desired

Fitting dimension 25 mm

Padlock no. 215 WD

Stainless steel shackle

Housing 58 mm wide, 50 mm high

Latches without locking

Shackle clearance 35 mm (standard)

Double cylinder, Swiss profile no. 610 WD

Brass, satin nickel-plated

5 pins: 31.5 mm/31.5 mm

6 pins: 35.5 mm/35.5 mm

Cylinder insert no. 802/5 WD

Brass, satin nickel-plated

One side locking, the other side dummy

Basic cylinder lengths:

5 pins	27.5/27.5 mm
6 pins	31.5/31.5 mm

Further variants are available.

Also available in British and Scandinavian profile.



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