CES system WO

Horizontal reversible key section series
To ensure that a cylinder of our WO series can only be opened by authorized persons with the correct key, CES has come up with quite an array, for instance, a varied key section and additional especially effective locking functions.

On each cylinder side, there are up to 22 locking elements, comprising up to 6 spring-loaded, stepped and vertically acting locking pins, and up to 14 combination pins that are also stepped and act radially on two locking bars that are offset by 90°.

The patented geometry of the key and of the cylinder plug offers protection against an unauthorized duplication of keys and – in conjunction with the „mouth“ of the key channel – makes inserting the key easy.

The WO system can be combined with the electronic locking and access control solutions available from CES. For entrances, access roads or special company areas, where access must restricted to defined times, electronic locking components are the solution of choice as they provide a high level of flexibility for granting and withdrawing access authorizations.

Successful enterprises rely on CES locking engineering with the patented WO system. For reasons of security, we do not quote any references at this point. However, we shall gladly establish a contact to users.
The WO system
in line with DIN 18252/EN 1303

Optimum locking security
The WO system has up to 22 locking elements on each cylinder side: up to 6 spring-loaded locking pins, 14 combination pins and 2 locking bars ensure a high level of security.

Integrated basic protection against drilling
Already in their standard version, all cylinders of the WO system are provided with an integrated basic protection against drilling. Different materials, such as hardened steel for key and driver pins, are employed to make drilling more difficult. At least one driver pin and at least one key pin are made of hardened steel. And stepped locking pins that cant if a drilling attempt is made prevent the opening of the cylinder.

Locking bar technology
Thanks to the use of locking bars, the locking surfaces are multiplied which guarantees the long-term functioning of the system.

Strong nickel silver key
Very handy and made according to DIN standard. The key shank is at least 14 mm long and perfectly suited for commercial armatures with cylinder covering. Inserting the key into the cylinder is easy thanks to a specially shaped and patented key tip. A guiding groove along the entire cylinder plug ensures a positive transfer of the key torque and prevents breaking of the key.

Security card
Replacement orders and extensions are only possible from CES if the security card supplied with the locking system is presented.
Options and extras

• Modular system
Profile cylinders of the WO 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 antidrilling and antipulling protection
For applications in particularly security-relevant areas, WO cylinders can be equipped with additional hard-metal pins and plates in the hull and on the cylinder plug face.

• Double, single and knob cylinders are also available as VdS certified cylinders of the classes AZ, BZ and BZ+ (nos. 910, 9710, 951 1/2, 915).

• Bump-proof version

• Sea-water resistance

• Wear resistant version

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

• Furniture / special cylinders
The WO series is also suitable for furniture and special cylinders from the CES range.

• Electronic access solutions
CES cylinders belonging to the WO system can be combined with the electronic locking systems from CES and the access control system AccessOne.

• Accessories
Locking system management software portier®vision.
Selection of DIN 18252/EN 1303 compliant designs

**Double cylinder no. 810 WO**
Brass, satin nickel plated

**Double cylinder no. 8710 WO**
with emergency and danger function
Brass, satin nickel plated
Locking on both sides

**Free-running profile**
**double cylinder No. 8710F WO**
for multipoint locks with panic function
Brass, satin nickel-plated

**Single cylinder no. 851 ½ WO**
Brass, satin nickel plated
Follower adjustable in 12 positions

**Knob cylinder no. 815 WO**
Brass, satin nickel-plated
Locking function on one side, aluminum knob on the other side, NF, various knob shapes available
(figure shows shape H)

**Cam cylinder no. 5558/30 WO**
Brass, polished nickel plated
Locking movement 90°
Locking direction as desired
Fitting dimension 25 mm

**Cylinder padlock no. 215 N/58 WO**
Lock case brass chromium velour finish
Shackle stainless steel
Case width 58 mm, height 50 mm
Key removable without locking
Shackle clearance 35 mm (standard)

**Double cylinder no. 802/5 WO**
Brass, satin nickel plated
One side locking, the other side blind

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**Basic lengths for profile cylinder:**

<table>
<thead>
<tr>
<th>Pins</th>
<th>Length</th>
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<tbody>
<tr>
<td>5</td>
<td>27.5/27.5 mm</td>
</tr>
<tr>
<td>6</td>
<td>31.5/31.5 mm</td>
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Further variants available.
Also available in Swiss, English and Scandinavian profile.