

MCS (Magnetic Code System) guarantees triple security through one magnetic and two mechanical codings. The permanent magnetisation is permanent. The cylinder core contains 8 rotating magnetic rotors to which the 4 magnetic pins of the key are assigned. When the key is removed, they always assume a different position. Each magnetic pin can be magnetised differently on both sides.

MCS is ideal for locking systems with high demands on perfection and security. Especially for objects where highly sensitive and irretrievable valuables have to be protected.

Locking system reserves can already be taken into account when planning the locking system.

Basic length

- from 31/31 mm
- measured from the middle of cam
- extension 5 mm per side
- The knob is always located on the inside of the cylinder.

Technical characteristics

- magnetic code system in modular design
- double authorization queries during the locking process
- freely rotating magnetic rotors to which the four magnetic pins of the MCS key are assigned
- 7 additional springless mechanical horizontal locking elements
- mechanical control by profile system (length profile) and positively controlled locking pin detection on both sides of the key
- carbide drilling protection on the outside in the core and body
- pulling protection through chrome nickel connecting axle
- breakaway and core pulling protection
- picking and scanning protection
- impact key protection
- cam movement 360 degrees, cam removal position 30 degrees (right of the knob side)
- width of cam: 9,3 mm
- certified according to DIN EN 1303:2015 16010C6D
- patent protection until 2035

Execution

- reversible key system
- vertical, easy key insertion
- high wear resistance
- cylinder body: brass matt nickel plated, cylinder core: base material brass
- lockable from the outside with key, inside with knob
- combination with electronic locking system possible

Options / Special equipment

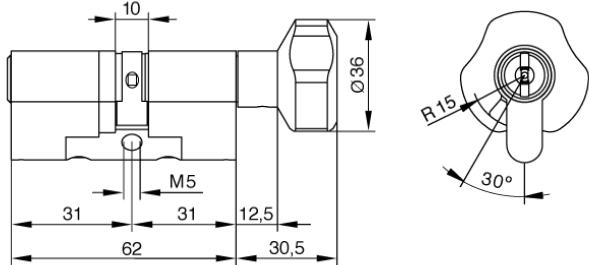
- different cylinder finishes *
- different knob designs, standard form AK (optional: KK, GK or X1K)
- weather protection *
- seawater version *

Operational area

- front doors, connecting doors, office doors, interior doors, exterior doors, apartment doors, gates, wooden doors, aluminium doors, etc.
- for tubular frame doors, security doors
- for mortise locks directed for profile cylinders
- luxury trade, research institutions
- hospitals, International airports
- residences, office building

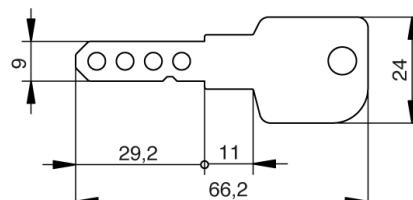
Scope of delivery

- knob cylinder incl. 3 or more keys
- fixing screw M5
- security card



Key

- key thickness: 2,4 mm
- magnetic key made of special resistant nickel silver alloy
- permanent magnets made of samarium-sobalt-5 guarantee a long life
- maximum key copying security
- very resistant, low wear
- optional: ergonomic design key *, key with colour dot *



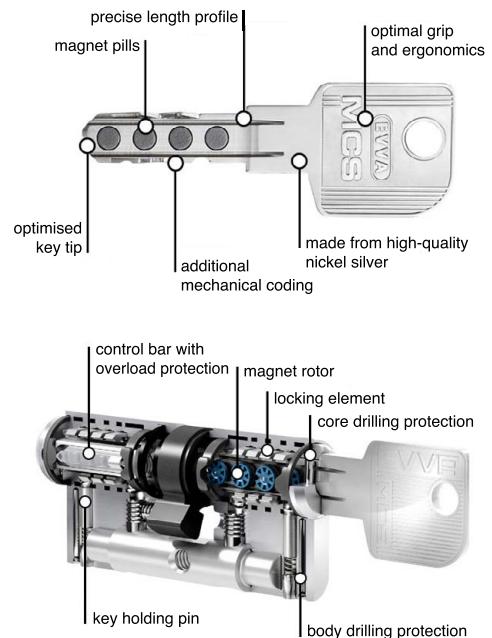
Technical details

Magnetic code system - maximum key copying security

The MCS cylinder contains a total of eight freely rotating magnetic rotors to the left and right of the key channel, to which the four magnetic pins of the MCS key are assigned. When an MCS key with a matching magnetic coding is inserted, all magnetic rotors are brought into the correct locking position. 2 pressure slides are then pushed forward and the key opens or locks.

The mechanical control is carried out by a profile system (length profile) and by a positively controlled locking pin detection on both key backs with manipulation control. The permanent magnets made of Samarium-Cobalt-5 guarantee a long service life and cannot be remagnetized or demagnetized by conventional means.

The unique magnetic keys ensure maximum key copying security. Each lock and each key is unique.



Modular design (SYMO)

The MCS cylinders are manufactured in modular design (SYMO) and are therefore more than flexible. With the modular system, the cylinder length can be subsequently adjusted by a specialist or a specific function (e.g. lockable on both sides) can be assigned to the cylinder. This allows you to benefit from flexible solutions and reduce your time and cost expenditure. The cylinder lengths can be changed in 5 mm increments.

Locking cylinder security

The innovative technologies of the MCS cylinder offer sustainable protection against illegal opening methods:

- **Picking and scanning protection**

The freely rotating magnetic rotors of the MCS cylinder are spatially separated from the key channel and therefore cannot be scanned or manipulated. This means that it is not possible to scan the magnetic coding in the MCS cylinder.

- **Protection against drilling**

The carbide elements in the MCS cylinder core provide effective protection against drilling.

- **Pulling and tear-off protection**

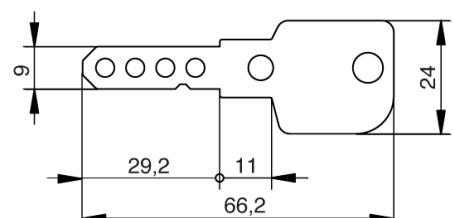
The carbide elements and the modular design (SYMO) have a high protective effect against pulling and tear-off attempts.

- **Impact key protection**

With this complicated opening method, burglar professionals use a so-called impact key to try to bring the query positions in the cylinder into the correct position.

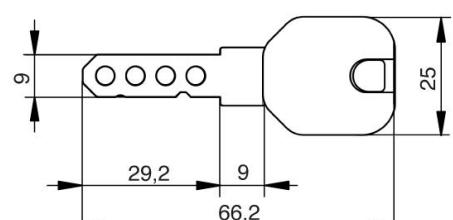
Key with coloured dot

- colours: red, blue, green, yellow, brown, black, violet, pink
- with countersunk colour dot on the key neck
- for optical differentiation
- colour dot may differ from the image on the website



Key with design cap

- colours: black, blue and red, yellow, green and white
- material thickness design cap: 7,2 mm
- plastic caps for special design requirements for the keys
- ergonomic design and high quality for better haptics
- easy optical differentiation
- simple management of locking systems through colour assignment
- consecutive numbering of the key
(key with the same locking authorisation receives a consecutive number)
- use exclusively for EVVA keys
- factory assembly, subsequent opening and retrofitting is not possible



* this selection extends the delivery time