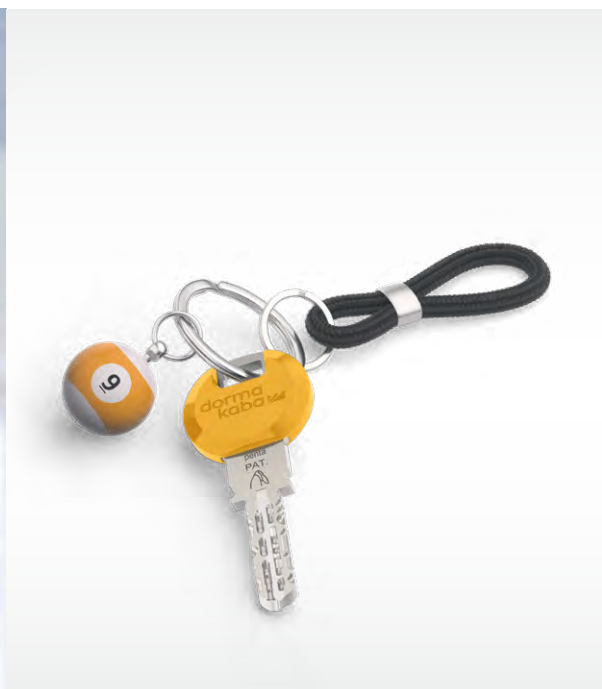


Greater protection and convenience

penta by dormakaba





One key for all

The penta system makes it possible for each user to have their individual authorisations within the locking plan hierarchy stored on a single key – whether that be for private or business purposes. This makes for a neat and tidy way of working, makes the key ring less heavy and saves always searching for the right key.

Do you need more security?

Configure penta according to your requirements

The dormakaba penta reversible key system (technical version K97) combines convenient operation and customised protection for your master key system. Its versatility makes it ideal for securing and organising access to any building – not only to family homes and residential complexes but also to public buildings and industrial properties.

Areas of application

- Healthcare
- Office buildings
- Hotels & catering
- Airports
- Banking & insurance
- Education
- Industry & production
- Shopping & retail sector
- Privately owned housing
- Government & administration
- Sport & culture
- Transport & logistics

Your advantages at a glance

- Long-term protection by European patent EP4261366B1* – valid until 2043
- High level of security through compliance with relevant standards, for example EN 1303 and DIN 18252
- Certificates according to VdS-B+ and VdS-BZ+
- Technical construction protects very well against the most common opening methods
- Modular system structure for economic adjustment to new requirements
- Reversible key without sharp edges can be inserted from both sides
- Optional security elements and special functions for even higher levels of protection
- Flexible in its use with basic to highly complex master key system types
- Structured planning and organisation of complex master key systems
- Can be combined with electronic access systems from dormakaba

You design your master key system

The possibilities are endless

Support with planning

penta can be used freely with all master key system types – from the one-key-for-all solution for home use, to large, complex sites with different access authorisations. The basis is a key plan, according to which selected keys can open a series of specific doors. To design the key plan, we examine and evaluate our customers' requirements in detail. This means that you will have better control, save costs incurred by duplicate keys and reduce the total number of keys.

Flexibility with dormakaba keylink

The innovative dormakaba keylink planning method means penta locking systems are almost unlimitedly expandable while also guaranteeing a consistently high security standard in all expansion phases. The planning method dormakaba keylink is based on company organisation and access grids. Mechanical access rights can thus be individually planned and changed at any time without replacing lock cylinders in your master key system.

Different applications require different solutions



Private homes



Residential complexes

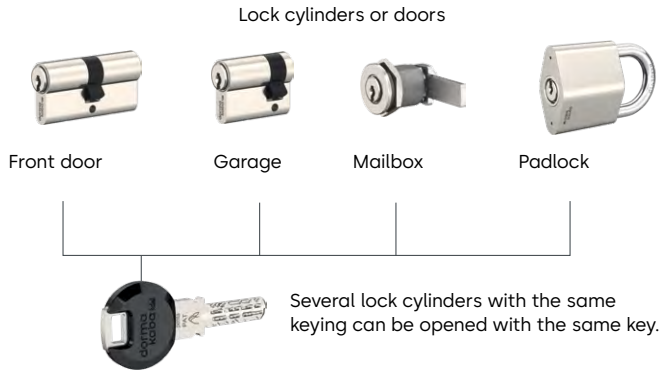


Office buildings or company sites



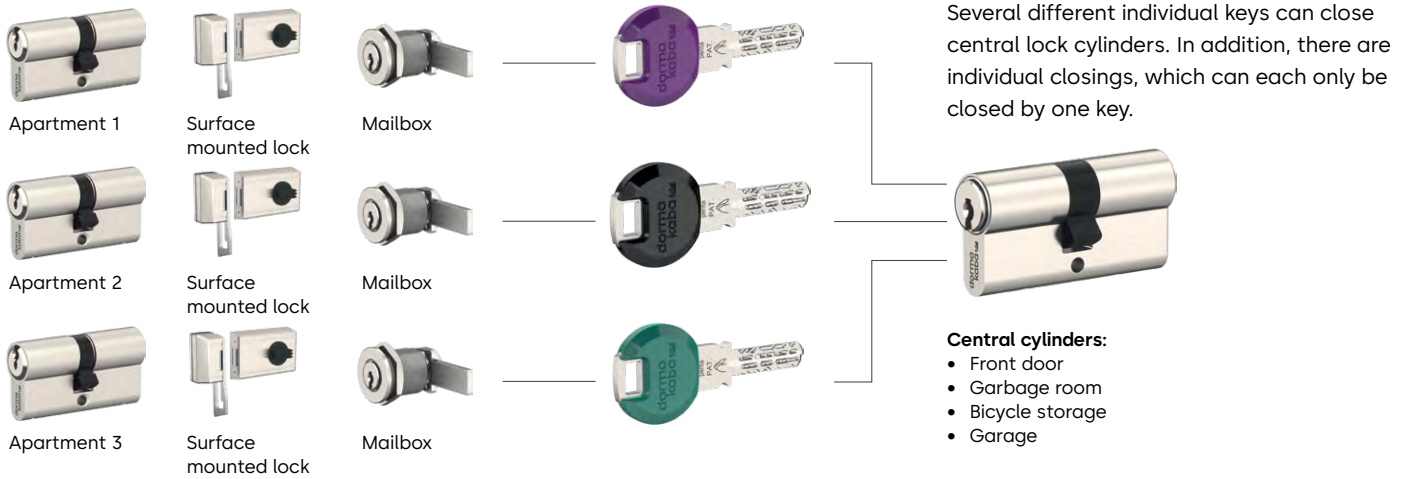
Large and complex facilities or public facilities, e.g. universities or schools

Types of master key systems Applications and principles

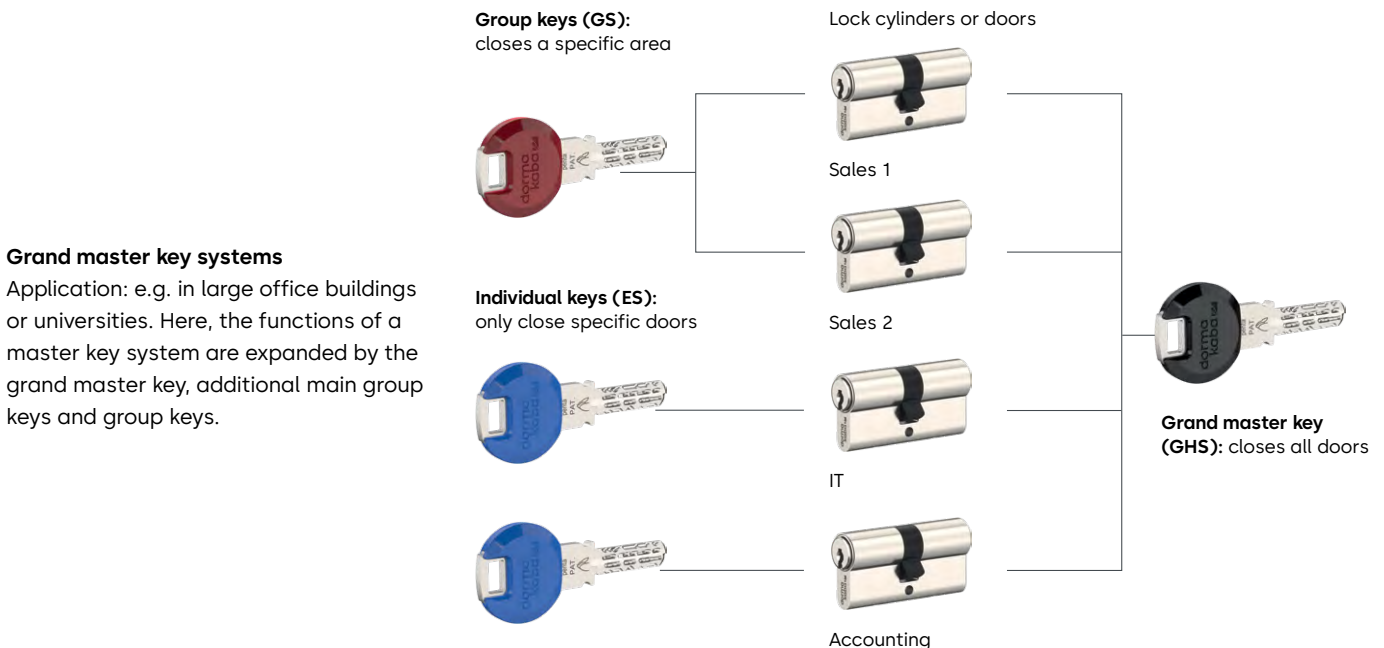


Keyed-alike lock cylinders

Application: e.g. for family homes. All or selected lock cylinders can be locked with the same key. This simplifies handling and reduces the size of the key ring.



With the special **administrator master key system**, the main areas of several properties (i.e. several locking systems) in different locations can be closed with only one key (administrator key).



Grand master key systems

Application: e.g. in large office buildings or universities. Here, the functions of a master key system are expanded by the grand master key, additional main group keys and group keys.

dormakaba

dormakaba

dormakaba

fileXmark

fileXload

omron

Precise mechanics – necessitate
production processes in line with
the very latest technology

Our products are high in both quality and reliability. We combine high standards in materials and functionality with experience, know-how and an innovative spirit when it comes to developing manufacturing our products.

Security combined with convenience

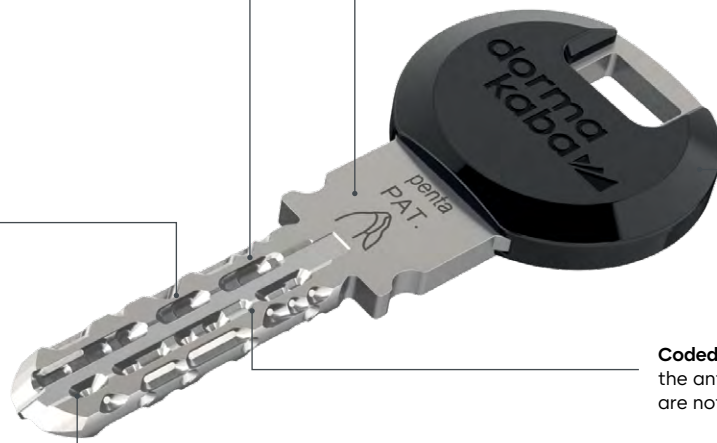
Reversible key and lock cylinder

Ergonomic reversible key –
can be inserted
from both sides

Robust nickel silver –
for a long service life

**No sharp corners or
edges –** no tears in
clothes and bags

High quality clips –
in 12 different colours



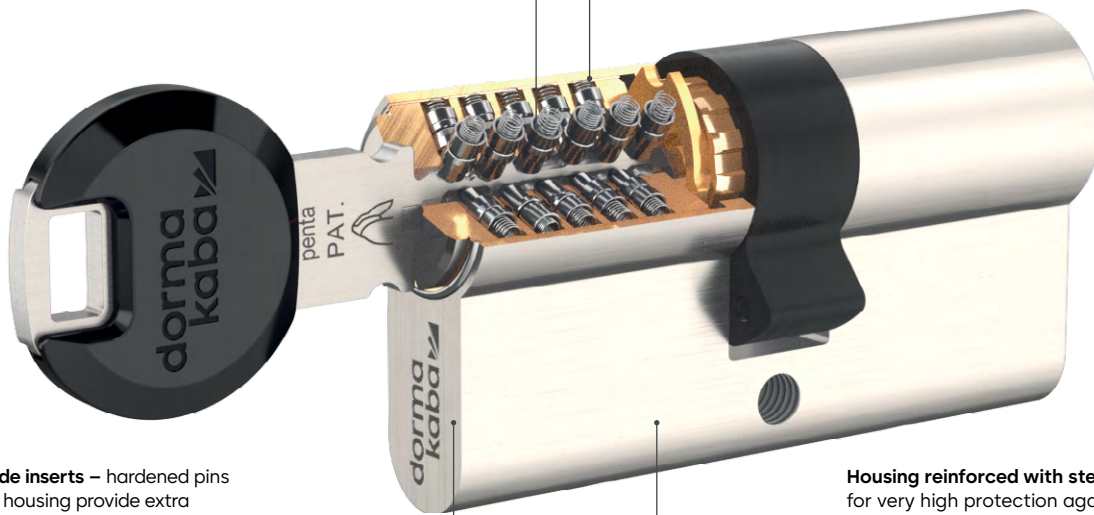
Coded drilling pattern –
the anti-picking positions of the tumbler pin
are not visible on the key

A patented high-precision undercut on the
blank key makes it even harder to copy as
the key geometry is hard to determine

**5 radially arranged tumbler pin rows
with up to 22 pairs of pins –** help
prevent opening with common bump
keys or picking methods



Tumbler pins with fixed block length –
and geometrically different versions for high
protection against impressing



Carbide inserts – hardened pins
in the housing provide extra
protection against drilling (optional)

Housing reinforced with steel shims –
for very high protection against pulling
(optional)

Our commitment

Security and sustainability



Patent protection

Long-term protection by European patent EP4261366B1* – valid until 2043



Mountain Peak

Brand protection

Our systems are additionally marked with a logo that is protected as a figurative mark and that makes them easy to identify. This figurative mark symbolises that this is an original key produced by dormakaba. Duplicate keys are exclusively manufactured by dormakaba.

Security card

Every new penta master key system and every serial cylinder is supplied with a security card containing all the security information about the system. This is used to manage the master key system data and to identify the owner when ordering key copies.



Standards and certificates penta

- EN 1303 Key Related Security Grade 6 and Attack Resistance Grade D for versions with steel reinforcement in the housing
- Safety standards/Certificates (expanded):
 - DIN 18252 Grade C and D
 - VdS Grade B+ and BZ+ for corresponding special design
- Fire protection: Lock cylinder tested according to EN 1634-1 and EN 1634-2

*Not valid in all countries – see worldwide. espacenet.com for details

Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations.

Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impacts through its entire life cycle, dormakaba provides Environmental Product Declarations (EPDs), in which the results of the life cycle assessment (LCA) are presented. Please download the EPD and read more about our sustainability commitment [here](#) or use the QR code provided.



Environmental product declaration: EPD

- In line with ISO 14025 and EN 15804+A2
- Publisher and declaration holder: Institut Bauen und Umwelt e.V.



Modular construction

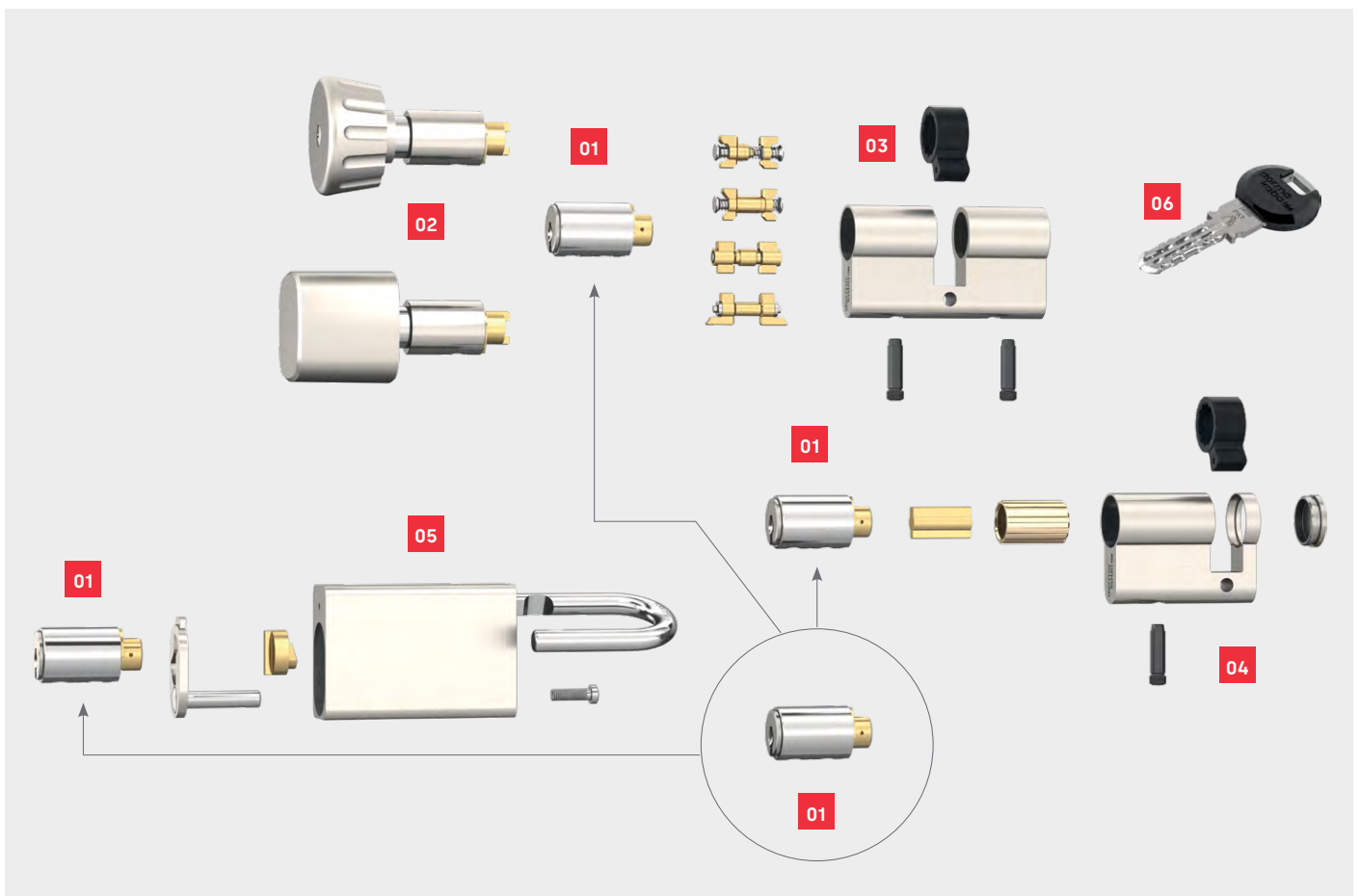
Maximum flexibility

Quick and inexpensive to adapt

penta reversible key systems offer high levels of investment protection, even when requirements change over the years. A modular, upward-compatible system structure allows for quick and easy conversion of the lock cylinders to other lengths and types. The existing lock cylinder can be adapted to a new length with little effort, for example for a new entrance door, or can be fitted with an elegant thumbturn knob.

Economically sustainable

The core of the system are modular, interchangeable inserts, which can be used without any problems in all cylinder lock types, for example single cylinders, thumbturn cylinders, rim cylinders, cylinders for cabinet locks, padlocks and camlocks. The combination of different lengths of cylinder housings (complete housings), couplings and cam hubs opens up almost unlimited possibilities for the conversion of a provided access solution.



01
The modular insert contains the locking authorization for the keys and can be integrated into all reversible key cylinder types.

02
A thumbturn knob can be retrofitted very easily.

03
Different lengths of the double cylinder housing enable easy length conversion.

04
Single cylinder with an insert.

05
Padlock with an insert.

06
Key with locking authorization according to the key plan.

Key variety clarity through colour



Key design

A masterpiece of design and technology: in addition to its renowned quality attributes, penta also sets itself apart with its chic design and high degree of functionality. The colourful clip makes for a distinctive look.

These can be easily switched and swapped by your specialist partner and are available in 12 different colours, so you can design your key ring to your personal taste. When it comes to residential complexes or complex master key systems, colours can be used to represent the organisation, to signal certain business divisions or roles, for example.



penta by dormakaba

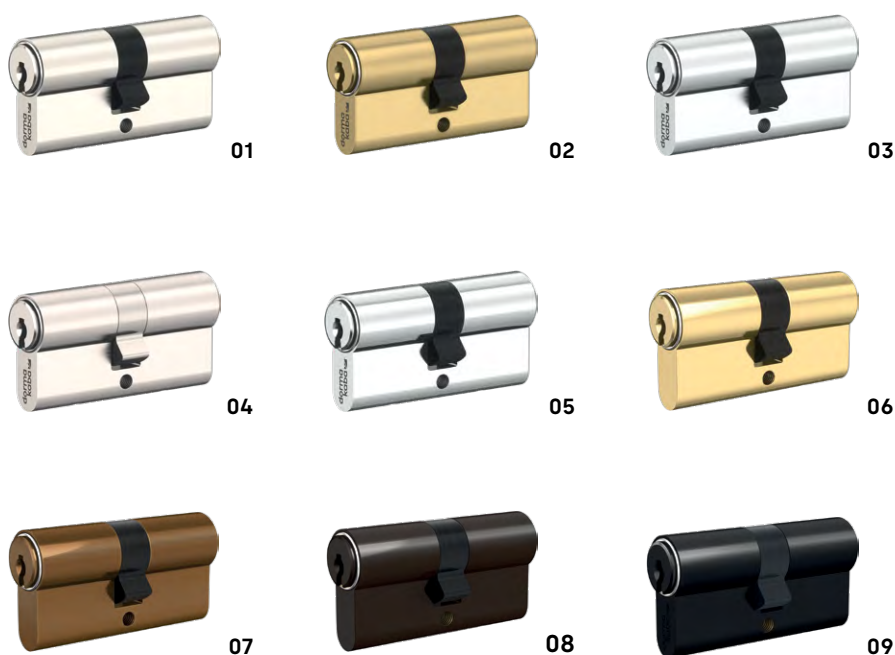


Trend colour black
– also looks good on
lock cylinders

Lock cylinder finishes

Design and mechanics combined

Since colours and finishes are an important design aspect, our mechanical lock cylinders come in a wide variety of finishes, with nickel-plated and natural brass as standard. The black lock cylinder is included in our range as BKM – black matt and is based on RAL colour 9005. Depending on your requirements and preferences, different finishes can be combined in one locking system.



01
NI | Natural nickel*

02
MS | Natural brass*

03
CR | Chrome-plated
standard

04
NIC | Chemically
nickel-plated

05
CRP | Polished chrome

06
MP | Polished brass

07
BM | Medium brown

08
BD | Dark brown

09
BKM | Black matte

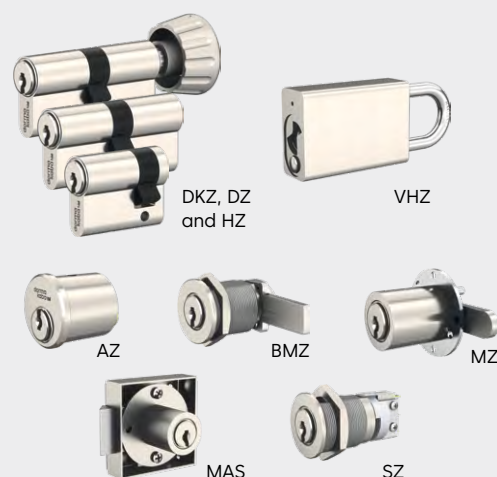
Cylinder surfaces are not colour-reproducible.

*Standard surface

A wide range – free choice when it comes to type

The cylinder range features a wide variety of types to choose from. What's more, you can also integrate cylinders for cabinet locks, key-operated switches or lift controls into the system.

Some cylinder lock types



DKZ
Thumbturn
cylinder

DZ
Double
cylinder

HZ
Single
cylinder

VHZ
Padlock

AZ
Rim
cylinder

BMZ
Camlock

MZ
Cylinder
cabinet lock

MAS
Furniture dead
lock

SZ
Key switch
cylinder



Thermally insulated
lock cylinder for
your added value

Added value for your master key system

Useful special functions

Depending on your requirements, you can supplement your individual solution with one of our numerous special functions. These offer added value in terms of functionality and benefits.

Dust and insect protection (SIS)



Dust or insects? Can't get through. The key way is closed by two shims and opened by inserting the key. This provides effective protection against the infiltration of pollution and insects. The SIS unit can be easily retrofitted. All you need to do is replace the cylinder insert.

Thermally insulated lock cylinder (TIC)



Cold and damp outside? Everything dry inside. The separation of the outside and inside with plastic components ensures thermal insulation. Condensation cannot form on the inside of the door, even when it is extremely cold. A foam rubber seal on the outside of the lock cylinder protects against drafts and driving rain.

For details, please refer to the **Special functions for reversible key systems** brochure.

Construction phase function (BAZ)



Modify access authorisation in a flash? Possible with the 3-in-1 lock cylinder. Using the BAZ cylinder, you can withdraw the access authorization of different keys or key groups simply by means of a conversion key. So, whether you want to withdraw access rights for a particular person or have lost a key, there is no need to change the lock cylinder.

Lock cylinder with key override on both sides (BSZ)



Key left in the lock? Not a problem! The double cylinder makes it possible to unlock the door from the opposite side with an authorised key when a key is inserted on one side and rotated in any direction. The inserted key turns with it. This function is guaranteed to work on both sides of the double cylinder.

Our Sustainability Commitment

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www.dormakaba.com/sustainability



Our offering

Access Automation Solutions

Entrance Automation
Entrance Security



Access Control Solutions

Electronic Access & Data
Escape and Rescue Systems
Lodging Systems



Access Hardware Solutions

Door Closers
Architectural Hardware
Mechanical Key Systems



Services

Technical Support
Installation and commissioning
Maintenance and Repair



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Subject to technical modifications.



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