



WINDOW TECHNOLOGY
DOOR TECHNOLOGY
AUTOMATIC ENTRANCE SYSTEMS
BUILDING MANAGEMENT SYSTEMS



DOOR TECHNOLOGY



Ultimate security:
Groundbreaking locking systems

Securing technology for you



Securing technology for you

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Ultimate security. That's the BKS trademark. As part of the Gretsche-Unitas Group, BKS GmbH belongs to the leading company in the locking technology and security industry. And there are plenty of good reasons for that: BKS locking systems offer innovative and tailor-made solutions and are manufactured according to the highest quality standards. Our numerous patents and certificates attest to this. Whether you choose an electronic or mechanical solution, fitting out a new building or updating an existing one, with a BKS master key system you are opting for a modern system with a great variety of functions and features. So much flexibility for today and tomorrow.



Security has a name: BKS is a part of the GU Group and one of the leading companies in the field of locking technology

Securing technology for you



State-of-the-art security.

The BKS brand stands for security in every respect – security which goes far beyond reliable locking systems. With BKS you can count on innovative solutions and the most up-to-date production methods. You can also expect the high level of dependability that comes with a family-run, traditional company that is in operation around the world.



Family-owned

As part of the Gretsche-Unitas Group, BKS GmbH belongs to a company that has been led by its founding family for three generations. Consistent high quality, sustainable management and loyalty to Germany as a business location are firmly rooted in our company culture.

Made in Germany

Always reliable: for over 80 years, BKS locks and cylinders have been produced in the main plant in Velbert. Today, around 630 employees produce daily volumes in the five figure range on a production floor of 60,000 m². From premium products to simple standard cylinders, everything is manufactured in our plant.

100 years of tradition

There's a long history of security at BKS: founded in 1903 and named after its founders, Boge and Kasten, and its birthplace, Solingen, BKS has always been the epitome of ultimate security.



Innovation leader

BKS has an innovative, comprehensive security range: from the round cylinder to the first electronic cylinder and the first key with integrated SE access control, all the way up to the new janus reversible key system and leading the way in escape door lock technology – BKS is continually laying down milestones.

Modern production

BKS invests in highly modern production technology and sophisticated production methods. Today we use production lines and lock production has been changed to a modular construction system – with even higher precision and forgery protection. Thanks to flexible production, customer requirements can be fulfilled even quicker.

On-site worldwide

With headquarters in Germany and sales and distribution sites around the globe, the GU Group and BKS are always there for you. For more country-specific information visit our website: www.g-u.com

No either.
No or.
Just BKS.

At BKS it's your decision: choose from a mechanical, mechatronic or electronic solution – or a combination of the three. Our systems are perfectly compatible and therefore offer maximum flexibility.





The BKS system environments



Three compatible systems

Mechanical, mechatronic and electronic solutions

Locking systems from BKS offer a variety of solutions for securing individual doors and for planning modern master key systems. The mechanical, mechatronic and electronic variations embody convenience and security and can be customised and used cost-efficiently as a single system or in combination.

Fitting together like a cylinder and key: production landscape and service

Perfect cooperation: BKS strengthens the high quality of the mechanical and electronic locking systems with a comprehensive service offer. So when planning, managing and reordering keys and cylinders, there is real added value.

Mechanical locking systems

Key and cylinder: the high-quality basis of mechanical locking systems. These fall into two categories.

Conventional locking systems

Conventional locking systems work with vertically arranged tumbler rows. Thanks to the large number of variations of bitting depths, you can use conventional systems almost everywhere – even in complex master key systems. All locking cylinders have an anti-bump feature as standard and are available as registered key bitting with security card.

Reversible key systems

Convenient security: with BKS reversible key systems, you can expect highly convenient operation and innovative cylinder technology. From registered key bittings with security cards through to patent-protected key profiles for master key systems. With BKS reversible key systems, you can solve almost any application requirement. All systems are protected against bumping as standard and are available with certified drilling/picking protection elements as an option.

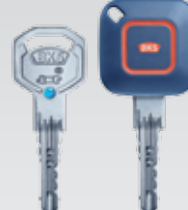
detect³



helius[®]



livius[®]

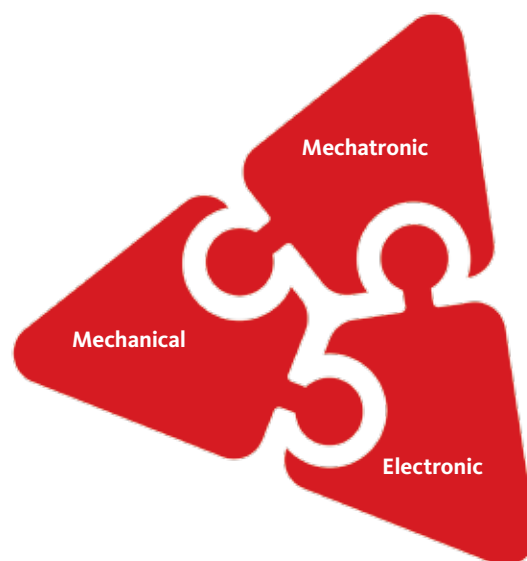


janus[®]



Be clever with your combinations

Mechanical, mechatronic and electronic. With BKS you don't need to make an either/or decision. This is a clear advantage as the trend is moving towards systems that combine mechanical locking cylinders with mechatronic and electronic solutions. And so flexibility and cost-effectiveness are perfectly united.



Electronic locking systems

Would you prefer an electronic and mechanical combination or a purely electronic system? BKS offers you a choice.

Mechatronic cylinders

The best of two technological worlds: BKS mechatronic locking systems combine tried-and-tested mechanics with convenient electronics. For this reason, janus cylinders have been fitted with an electronic rosette. Access is gained via key with an SE transponder. The tried-and-tested mechanical system therefore has additional electronic protection.

Electronic cylinders

The modern and flexible SE electronic locking system meets the highest security demands in sensitive areas such as managing directors' offices or research departments. The locking system sets new standards with its many innovative features, such as highly efficient energy management or simple software-based authorisation allocation. Thanks to the system's particularly energy-efficient operation and the low level of installation effort it requires, you will also be on safe ground in terms of costs.

janus® SE

SE-Zylinder



SE

SE-Doppelknaufzylinder

SE-Schloss



The BKS performance ranking




In active use everywhere

A locking system for every requirement

Electronic, mechatronic and mechanical BKS locking systems have a wide variety of applications. For every convenience, protection and flexibility requirement, BKS has an appropriate system or a suitable combination of several systems. The BKS performance ranking provides you with an initial overview of which system is most suitable for you.

- Flexibility:** Programmable, extendable, and compatible with master key systems
- Protection:** Drilling, bumping and key duplication protection
- Convenience:** Reversible key and easy operation

<div>PZ 88</div> <div></div>	<div>PZ 88 locking system</div> <div>Ideal for keyed-alike locking.</div> <div><div>Flexibility</div><div>Protection</div><div>Convenience</div></div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div>
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Mechanical locking systems – reversible key systems

helius®



helius locking system

Ideal for master key systems in the private sector and registered key bittings with security cards.

Flexibility	■	■	■	■	■	■	■	■	■
Protection	■	■	■	■	■	■	■	■	■
Convenience	■	■	■	■	■	■	■	■	■

livius®



livius locking system

Ideal for master key systems with linear design.

Flexibility	■	■	■	■	■	■	■	■	■
Protection	■	■	■	■	■	■	■	■	■
Convenience	■	■	■	■	■	■	■	■	■

janus®



janus locking system

Ideal for complex master key systems in the industrial sector and registered key bittings with security card in the private sector.

Flexibility	■	■	■	■	■	■	■	■	■
Protection	■	■	■	■	■	■	■	■	■
Convenience	■	■	■	■	■	■	■	■	■

Electronic locking systems

janus® SE



SE electronic locking system/janus reversible key system

Ideal for combined mechanical, mechatronic and electronic access points.

Flexibility	■	■	■	■	■	■	■	■	■
Protection	■	■	■	■	■	■	■	■	■
Convenience	■	■	■	■	■	■	■	■	■

SE



SE electronic locking system

Ideal for sensitive security areas.

Flexibility	■	■	■	■	■	■	■	■	■
Protection	■	■	■	■	■	■	■	■	■
Convenience	■	■	■	■	■	■	■	■	■



The electronic SE locking system
Access to greater flexibility

"I am looking for a locking system that allows me to combine mechanical and electronic cylinders/access points flexibly with one another."

Jörg Schäfer, Facility Manager



Future-oriented locking: keys and cylinders constitute the high-quality basis for mechanical locking systems. Electronic locking systems offer convenient solutions in terms of flexibility and security alongside customisable access rights – for example, through secure encryption and straightforward disabling of lost keys. Particularly efficient and cost-effective solutions are characterised by a combination of both systems and their respective benefits.



SE



The **SE** electronic locking system is an extremely safe investment due to its ability to expand according to requirements. The whole system can be flexibly adapted to meet additional requirements. It can also be combined with existing mechanical components at any time.

The flexible locking system

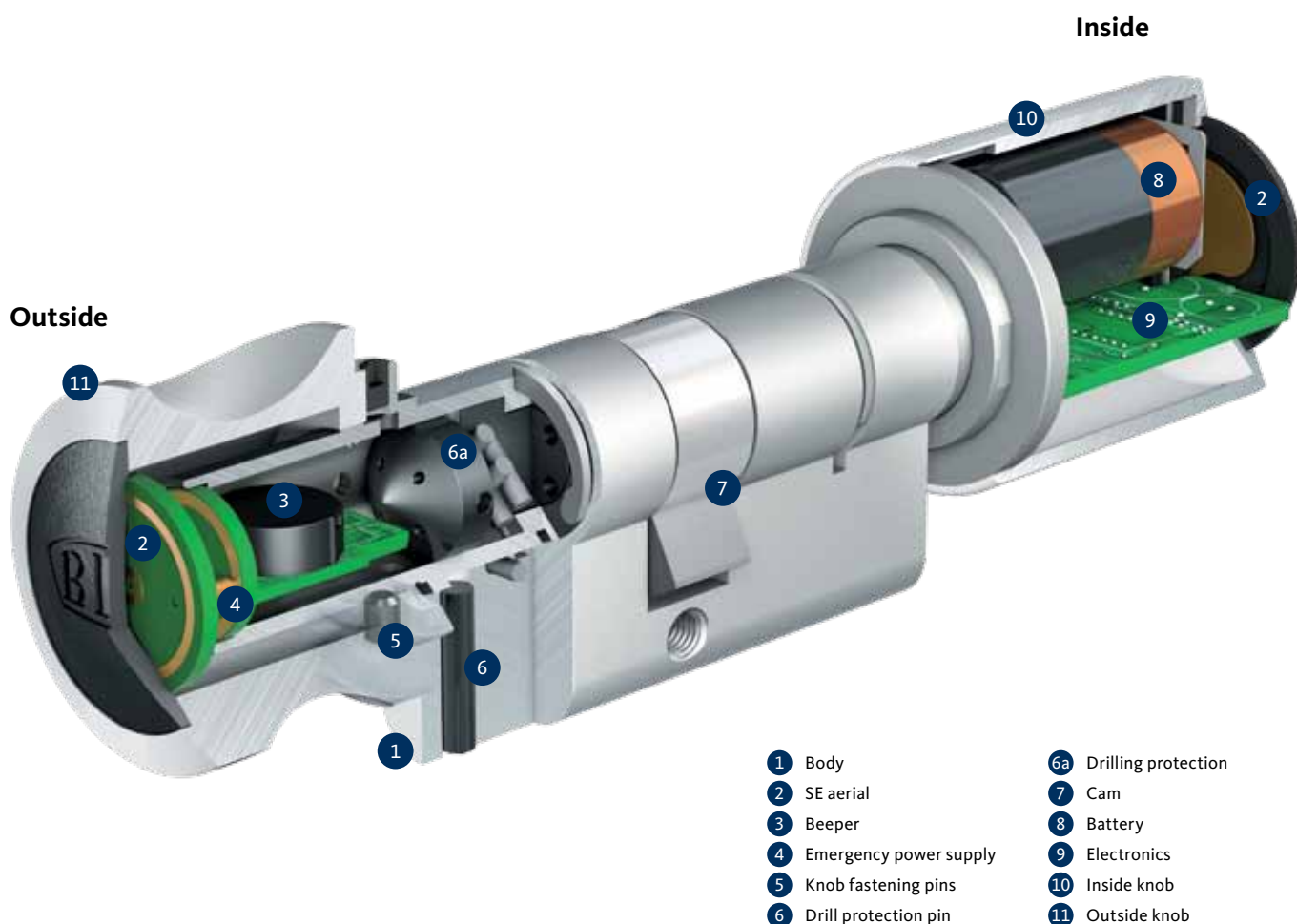
One of the most important selection criteria for an electronic locking system? Energy efficiency! That's how follow-up costs are kept under control – especially with medium-sized and large master key systems. BKS SE technology is characterised by particularly low energy requirements. Up to 600,000 locking cycles and up to 10 years of standby time are guaranteed and therefore you will rarely have to change the battery.

As well as being highly convenient, electronic locking systems offer the highest level of security. The SE technology satisfies the highest security requirements of the DIN EN 15684 standard for mechatronic locking cylinders by using extremely reliable encryption and communication mechanisms. The security is VdS-certified.

The trend is moving towards systems that combine mechanical locking cylinders with mechatronic and electronic solutions. This mixture ideally combines flexibility of usage and profitability.

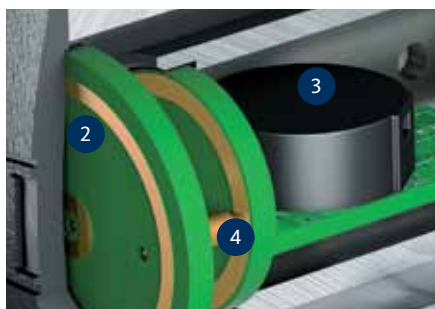
Highlights

- Extremely low energy consumption: up to 600,000 locking cycles or 10 years of standby time per standard battery
- Highest level of security – certified by VdS
- SE lock: convenient door hardware operation with any choice of hardware design
- BKS KeyManager software: management of mechanical and electronic locking systems within one software program
- Transponder und mechanical key can be combined to form one access medium
- Different system variants: offline, online (via radio), virtually networked (Data on Transponder)
- Flexible authorisation allocation and worry-free key loss
- Simple, wireless installation



SE double knob cylinder: the master of adaptation

With many different versions, the SE double knob cylinder can be adapted to meet all requirements. Therefore, small and large master key systems can be operated in a safe and convenient manner – both offline and online. Some panic locks according to EN 179 / 1125 require the installation of tested and approved knob cylinders. The SE double knob panic cylinder fulfills these high requirements.



SE aerial:

The capacitive communication provides a very long battery life due to low energy requirements.



Drilling protection:

The certified security (VdS BZ) is based on an efficient drilling protection concept (optional).



Electronics and battery:

The interior protected electronics with standard battery guarantees security and minimises environmental influences such as heat and cold.



SE



SE double knob cylinder

Can be used universally in combination with any form of mechanical locking system.



SE knob half cylinder

Electronically secure key switches, escape door terminals or elevators – with an optional removable knob.



janus SE cylinder

Combined mechanical and electronic security ideally suited to areas prone to vandalism.



SE lock

Convenient operation and high-level security combined – the hardware design is optional.



SE wall reader / SE release terminal

Opens barriers, rolling doors or barrier-free doors with a swing door drive or motor-driven locks.



SE programming device

Programming and service tool with display for electronic locking systems.



SE transponder

Pleasant-to-touch access medium combinable with mechanical keys.



KeyManager

Manages and programs mechanical and electronic locking systems in one software program.

Manage locking rights centrally

With the BKS KeyManager, all cylinders, either with or without electronic components, can be managed together in one software program. Modified access rights can be conveniently updated centrally via the programming device or locally via the release terminals.

Future-oriented locking

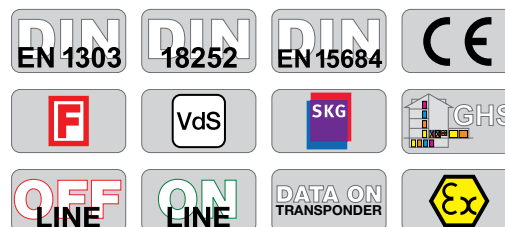
Unlike conventional electronic hardware solutions, with the SE lock there is a wide range of hardware available that can be combined with the lock – after all, the entire system technology is stored securely in the lock. This gives designers the design and aesthetic freedom they require – without compromising security.

SE double knob panic cylinder

Some panic locks place very high demands on knob cylinders. The SE double knob panic cylinder is the optimal solution. With the SE knob half cylinder you can electronically secure key switches, escape door terminals or elevators for optimal access organisation. The knob can be detached for installation in different situations.

Features and benefits of the electronic SE locking system

Ideal for projects with different organisational or safety-related door requirements: thanks to flexible authorisation allocation, higher energy efficiency and compatibility with mechanical systems, the electronic locking system also offers cost-effective security.



Standard equipment

- High energy-efficiency
- Large memory capacity for event recorder
- Multilevel low-battery alarm
- Freely adjustable coupling duration
- Contactless programming with programming device or via radio
- Upgradable firmware
- Electronics are located within the secure interior
- Faceplate screw: M5 x 80 mm, nickel-plated steel
- Backup module for external power supply available
- Compatible with mechanical master key systems – ideal for upgrades
- Convenient administration and programming via KeyManager software

Extra equipment

- Push-button on the interior knob for manual operation without transponder
- Special lengths > 80 mm / 80 mm
- Panic version
- Online version with radio module
- VdS variant
- SKG variant
- Half cylinder, with removable knob on request
- Weather-proof version IP 65
- Explosion protected version (janus SE cylinder)

Technical data	
Order length (BL), outside	27, 31, 35 ... ascending in 5 mm steps up to 80 mm
Order length (BL), inside	31, 35 ... ascending in 5 mm steps up to 80 mm
Voltage supply	1 x lithium battery 3V, type CR2
Battery life SE double knob cylinder	up to 350,000 locking cycles or 10 years standby
Battery life janus SE cylinder	up to 600,000 locking cycles or 10 years standby
Protection class	optional IP 65 (SE double knob cylinder), IP 54 outside
Radio (optional) frequency	868 MHz
Temperature range	-25 °C to +70 °C, relative humidity up to 95 %, non-condensing
Transponder/programming interface	capacitive
Signalling	audible (cylinder), visual (transponder)
VdS variant	optional
SKG*** variant	optional



"My customers rely on BKS security. And I rely on speedy order handling."

Sabine Schwarz, Wholesaler

Image woman: Getty Images



What is good for your customers is also good for your business: with BKS you can rely on a wide range of high-quality reversible key systems together with BKS security advantages, such as the security card, long-lasting patent protection and secure storage of data on master key systems. You will also score points with your customers with fast availability: whether it's your first order or a reorder, you can count on a speedy delivery.



janus®



Alongside the new, dynamic dimple key design, security has also been increased with patent protection lasting until 2031 for janus® the latest generation. Not only is the cylinder highly versatile and flexible, it also features first-class drilling/picking protection which makes it highly tamper-proof. The integrated copy-protection feature therefore provides that "ultimate security"!

The premium locking system

Security has many facets with janus. One of them is the new key duplication protection for the dimple key.

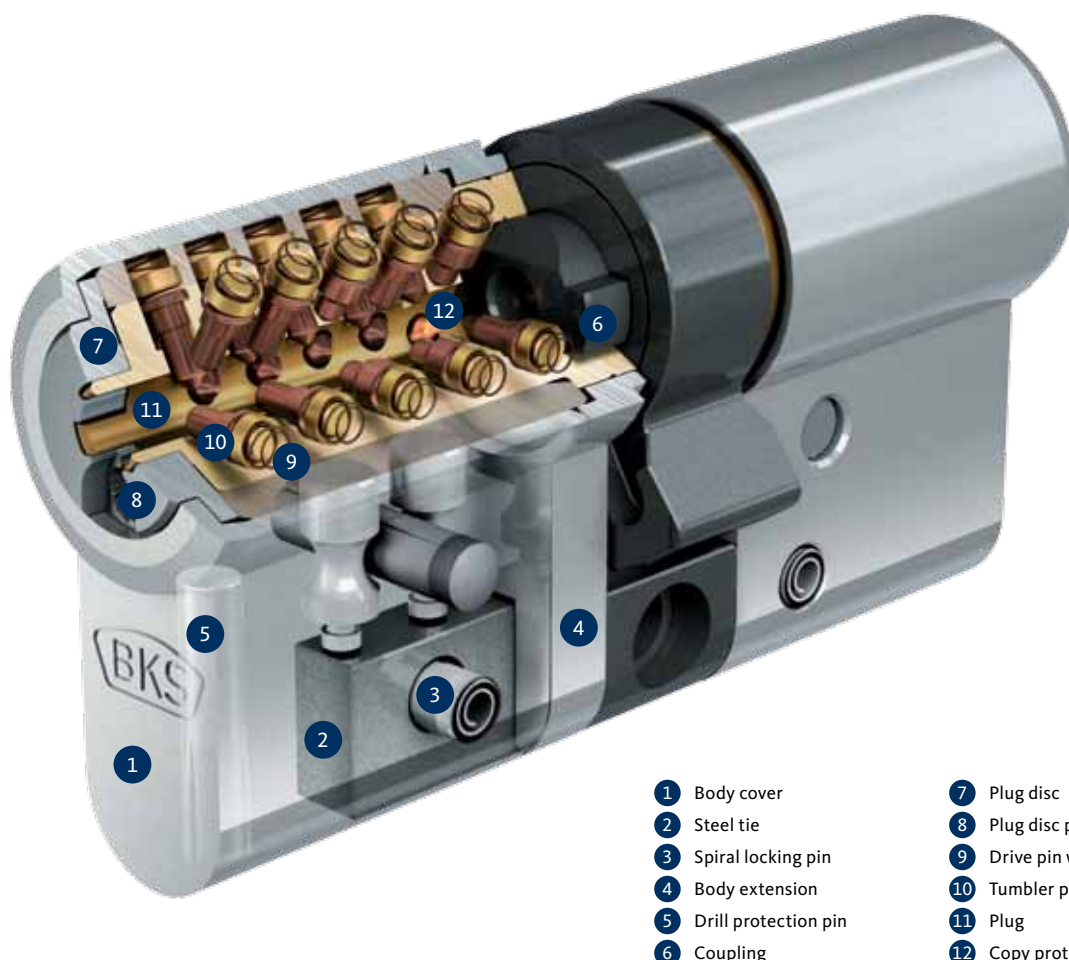
With the janus cylinder, high security demands are met: a new precision locking mechanism provides wider key duplication protection – for cylinders with registered key bitting with security cards as standard.

Alongside providing keys and cylinders, the comprehensive service offer also ensures that you are always on the safe side with janus: our services make planning, ordering and managing keys and master key systems a breeze.

Conclusion: with the premium BKS locking system, security, flexibility and cost-effectiveness are brought into play.

Highlights

- More convenience, even with tall or heavy doors: the generous janus grip area means straightforward opening and closing via the cylinder
- Striking design: the red ball is a sign of BKS quality and accentuates the symmetry of the reversible key
- Great operation: the extended key shank makes janus well suited for security hardware with a cylinder cover
- Greater security: first-class drilling, picking and key duplication protection
- Simple operation: the symmetrical design and the familiar upright key position ensure an intuitive operation



- | | |
|------------------------|----------------------------|
| 1 Body cover | 7 Plug disc |
| 2 Steel tie | 8 Plug disc profile |
| 3 Spiral locking pin | 9 Drive pin with spring |
| 4 Body extension | 10 Tumbler pin |
| 5 Drill protection pin | 11 Plug |
| 6 Coupling | 12 Copy protection feature |

The janus cylinder: the perfect combination of flexibility and protection against manipulation

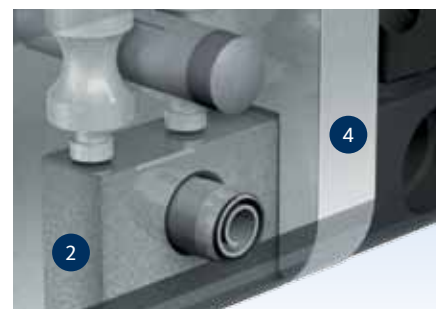
Sophisticated down to the last detail: several tumbler rows with different angular positions and variably arranged pairs of pins guarantee versatile locking combinations when implementing large and complex master key systems. This structure also effectively protects the cylinder plug against any manipulation attempts.



Anti-drill plate:
The plug disc reliably separates different profile groups and provides additional protection in the event of drilling attempts.



Copy protection feature:
The new fine mechanical locking mechanism makes the reproduction of janus difficult.



Modular design:
Thanks to the body extension, all cylinder lengths are instantly achievable. The connector ensures the optimum stability of the modular cylinder and protects against pulling attempts by absorbing the pull forces without breaking.



janus®



Double cylinder

Can also be subsequently and modularly adapted to the door thickness.



Half cylinder

Can be used universally in many additional locking devices thanks to an 8-way adjustable cam.



New cylinder thumbturn

The new design integrates with the look of high-quality hardware and modern doors.



Padlock

Also available with extra-thin or high shackles.



Cabinet lock

Can be combined with deadbolt locks or with espagnolette locks for high cabinet doors.



Cylinder cam lock

Suitable for various letter boxes with different locking levers.



Key with SE transponder

Function and design combine to form a universal access medium.



Assembly case

Contains all tools and parts for dismantling, extending and adapting the janus cylinder's coupling function.

One key for all eventualities

janus deploys its full potential, especially in master key systems. The complete product range of designs opens up many application possibilities. With the access authorisation of master keys, you also have the greatest possible handling leeway.

Additional locks: everything included in one solution

Here, the janus locking system offers a wide spectrum for all applications with its versatile product range of special locks, padlocks and cabinet locks.

Expansion through electronics - janus SE cylinder

With the janus SE cylinder, the janus reversible key system and the SE electronic locking system are combined to form a dual security unit. The janus SE cylinder combines the mechanical release of the key with an electronic identification and this causes the mechanical release in the cylinder.



Features and benefits of the janus reversible key system

With its high-quality standard equipment and a whole range of extra equipment, janus is highly flexible. It demonstrates its strengths particularly well in the industrial sector with complex master key systems as well as in the private sector with registered key bittings with security cards.



Standard equipment

- Tested in accordance with EN 1303 and DIN 18252
- Profile cylinder with several tumbler pin rows
- Long patent terms
- Standard protection against bumping
- "Sandwich design" for variable cylinder lengths
- Key made from high-quality nickel silver with red glass ball as distinguishing feature
- Practical assembly case for adapting the cylinder length
- Knob cylinder as standard with removable thumbturn
- Faceplate screw: M5 x 80 mm, nickel-plated steel
- Cylinder: nickel-plated brass (standard), bronzed, matt or polished brass
- Longer key shank

Extra equipment

- Cylinder with additional copy-protection feature with registered key bitting with security card as standard
- Cylinder with drill protection pin for registered key bitting with security card as standard
- Cylinder with emergency function for registered key bitting with security card as standard
- Stainless steel cylinder body cover with VdS cylinders as standard
- Seawater protected version with VdS cylinders as standard
- Cylinder with dust cap
- Special shapes of the cylinder knob thumbturn, e.g. "fire brigade" knob
- Faceplate screw with Security Torx
- Freewheel function (FZG)

Technical data	
Order length (BL)	27, 31, 35 ... ascending in 5 mm steps up to 100 mm
Special lengths	cylinder up to a total length of 250 mm
Key bitting	registered key bitting, master key system
Cam	standard, multiple cams, special versions
Emergency function (GF)	optional for master key systems, on both sides from BL 31/31, on one side from BL 27/31
Freewheel function (FZG)	optional, from BL 31/31
Drilling protection	optional for master key systems, BZWA, BZWB
Drilling/picking protection	optional, BZWC, BZWD
DIN 18252	grade 80, optionally grade 82 (with BZWC)
Key related security according to EN 1303	grade 6
Resistance to attack according to EN 1303	grade 0, optionally grade 2 (with BZWC)
VdS variant	optional
SKG*** variant	optional



livius®



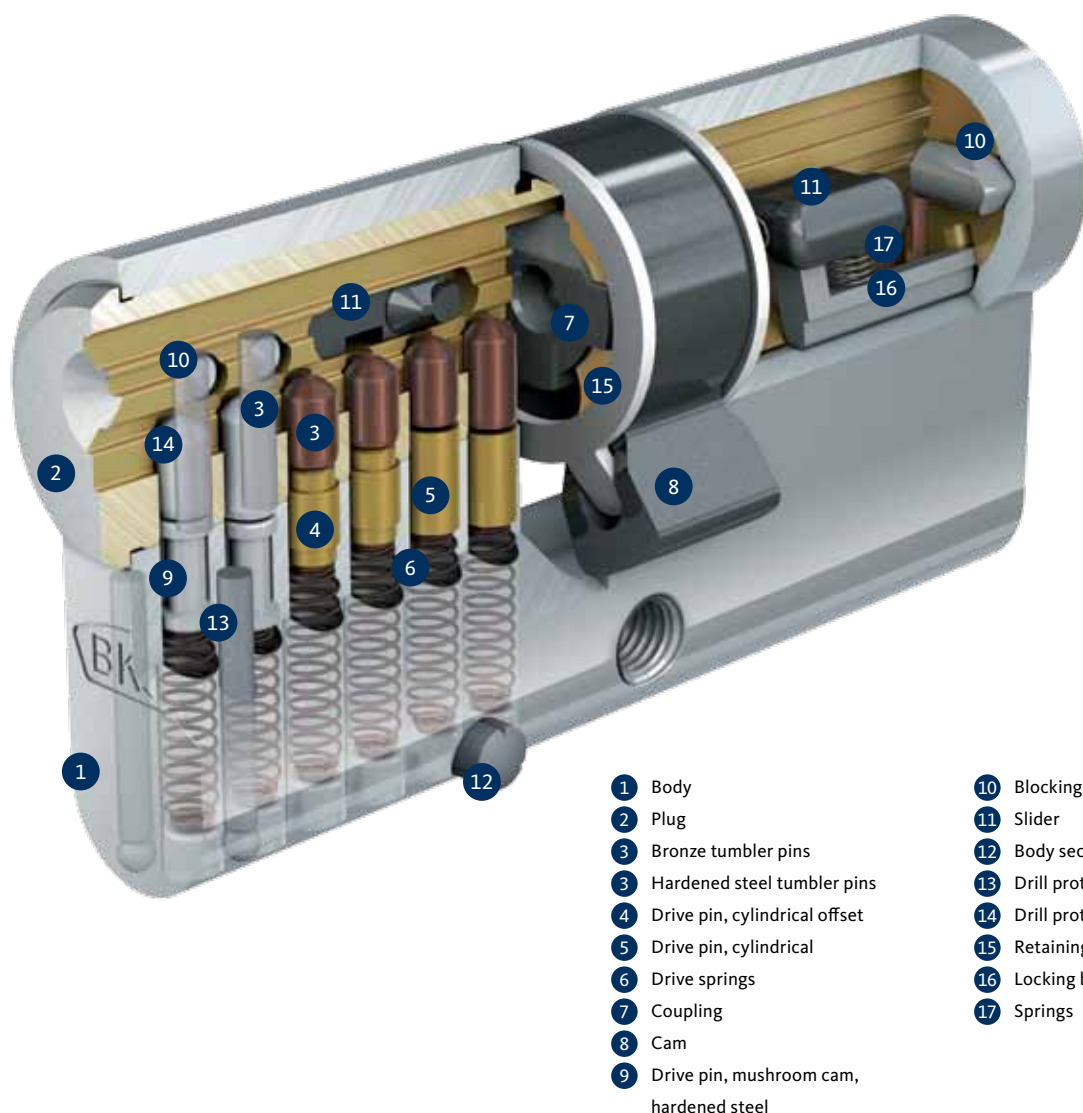
Double-side key insertion ensures highly convenient operation which is increased in the SL livius system by an innovative channel for slider for effective key duplication protection. With a patent term lasting until 2024, the livius® reversible key system offers security you can count on.

The modern locking system

With high-quality reversible key technology and a wide portfolio of cylinders, livius is particularly well suited for registered key bittings with security card and for medium-sized master key systems in the private or industrial sector. By combining cylinders with and without a locking bar in master key systems, it is possible to establish different security levels according to requirements. The locking bars are an additional system in which the locking cylinders can be fitted with lateral locking elements. The related query mechanisms provide exceptionally high mechanical key duplication protection.

Highlights

- Highly flexible: cylinders with and without a locking bar can be combined so that different security levels can be established within one master key system
- More convenience, even with tall or heavy doors: the generous grip area of livius means straightforward opening and closing via the cylinder
- Striking design: the blue ball is a sign of BKS quality and accentuates the symmetry of the reversible key
- Great operation: the extended key shank makes livius well suited for security hardware with a cylinder cover
- Simple operation: the symmetrical design and the familiar upright key position ensure an intuitive operation

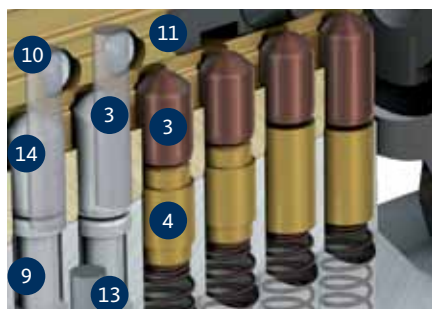


Cylinder construction

livius locking cylinders are based on the tried-and-tested single-row pin arrangement and impress with their modern reverse key technology. The locking system has 6 separate pin tumblers as standard. The cylinders are suitable for a wide range of applications and are available in different function variations.



Easy operation:
Plug with reversible key profile and key channel for better insertion.



Security package:
Picking and drill protection pins together with lateral slide locks form an effective security package



Special functions:
Different forms of coupling enable important features such as emergency and freewheel function.



livius®



Double cylinder

Available as standard cylinder with special cams or with additional features.



Half cylinder

Can be used universally in many additional locking devices.



Padlock

Also available with extra-thin or high shackles.



Cylinder cam lock

Suitable for various letter boxes with different locking levers.



Switching cylinder

With microswitches for controlling external electronic control devices.



Rim cylinder

Locks or unlocks rim locks from the outside of the door.



Knob cylinder

The cylinder thumbturn can be selected, exchanged and replaced.



Key with SE transponder

Function and design combine to form a universal access medium.

One key for all eventualities

The livius reversible key system offers high-quality reversible key technology for registered key biting with a security card and for medium-sized master key systems in the private or industrial sector.

Additional locks: a lot in one solution

The livius locking system offers a broad spectrum for the most important applications as part of its product range of cylinder cam locks, padlocks as well as switching, rim and knob cylinders.

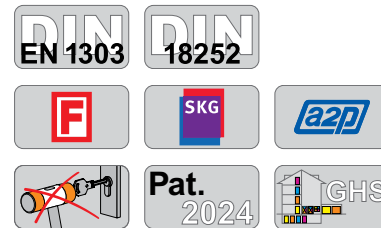
Expansion through electronics - SE double knob cylinder

As keys can be combined with the SE transponder clip, electronic, SE knob cylinders are a worthwhile addition to livius master key systems.



Features and benefits of the livius reversible key system

Perfectly suited to master key systems with linear design, the livius locking system impresses with its range of technical application possibilities.



Standard equipment

- Tested in accordance with EN 1303 and DIN 18252
- Standard protection against bumping
- 6-pin profile cylinder
- Patented profile series with hidden wavy cutouts
- Cylinder body: nickel-plated brass, matt, polished or bronzed
- Key made of high-quality nickel silver with blue glass ball as distinguishing feature
- Faceplate screw: M5 x 80 mm, nickel-plated steel (optionally brass)
- Key compatible with SE transponder
- Longer key shank

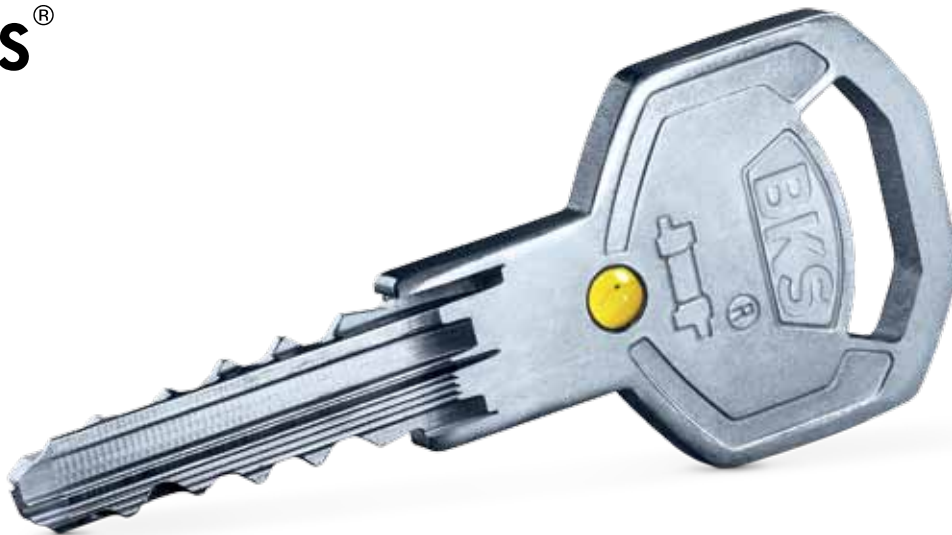
Extra equipment

- With additional spring-loaded slider, locking pin and locking bar in the cylinder plug (system SL)
- Cylinder with and without slide lock (system SL) can be combined in master key systems
- The innovative channel for slider in the key ensures exceptionally secure key duplication protection
- Multiple key bittings through combinations of the locking elements
- Cylinder with protection against seawater
- Freewheel function (FZG)
- Emergency function (GF)
- Special faceplate screw with Security Torx

Technical data	
Order length (BL)	31, 35, 40 ... ascending in 5 mm steps up to 95 mm
Special lengths	max. 250 mm
Key bitting	registered key bitting, master key system
Cam	standard, special versions
Emergency function (GF)	optional, on both sides from BL 31/31
Freewheel function (FZG)	optional, from BL 35/35
Drilling protection	optional for master key systems, BSKA, BSKB
Drilling/picking protection	optional, BZKB
DIN 18252	grade 80, optionally grade 82-B5 (with BSKA), grade 82-BZ (with BZKB)
Key related security according to EN 1303	grade 6
Resistance to attack according to EN 1303	grade 0, optionally grade 2 (with BZKB)
VdS variant	–
SKG** variant	optional
A2P*	optional



helius®



The brand helius® is a small but perfectly designed locking system that is ideal for private houses and homes. Easy operation due to tried-and-tested reversible key technology and protection against bumping as standard both make it a secure and cost-efficient solution for the home.

The smart locking system

The helius reversible key system offers high-quality reversible key technology for master key systems in the private sector and registered key bittings with security card. The system has five pin tumblers per side and can be optionally equipped with an emergency function on one or both sides. The reversible key with wavy cutouts offers reliable key duplication protection.

Highlights

- More convenience, even with tall or heavy doors: the generous grip area of helius means straightforward opening and closing via the cylinder
- Striking design: the yellow ball is a sign of BKS quality and accentuates the symmetry of the reversible key
- Great in operation: the extended key shank makes the helius well suited for security fittings with a cylinder cover
- Simple operation: the symmetrical design and the familiar upright key position ensure an intuitive operation



- | | |
|---------------------------------|---|
| ① Body | ⑦ Coupling |
| ② Plug | ⑧ Cam |
| ③ Bronze tumbler pins | ⑨ Drive pin, mushroom cam, brass |
| ④ Drive pin, cylindrical offset | ⑩ Retaining ring |
| ⑤ Drive pin, cylindrical | ⑪ Drive pin, mushroom cam, hardened steel |
| ⑥ Drive springs | |

Cylinder construction

helius locking cylinders are based on the tried-and-tested single-row pin arrangement and are easy to handle thanks to the reversible key mechanism. Equipped with an emergency function, it is possible to lock the cylinders even when a key is inside.



Easy operation:
Plug with reversible key profile and key channel for better insertion.



Protection against manipulation:
Special drive pin shapes prevent manipulation with picking tools.



Special functions:
Different forms of coupling enable important features, such as the emergency function.



helius®



Double cylinder

Available as standard cylinder or with emergency function.



Half cylinder

Can be used universally in many additional locking devices.



Padlock

Also available with extra-thin or high shackles.



Cylinder cam lock

Suitable for various letter boxes with different locking levers.



Knob cylinder

The cylinder thumbturn can be selected, exchanged and replaced.



Key with SE transponder

Function and design combine to form a universal access medium.

One key for all eventualities

helius is the right system for anyone who wants to equip their flat with keyed-alike locking or their privately owned home with a convenient, mechanical master key system.

Additional locks – for letter boxes and gates

The compact range of helius locking cylinders comprises a cylinder cam lock and a padlock as well as profile cylinders. Perfect for use in privately owned homes.

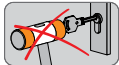
Expansion through electronics – SE double knob cylinder

helius keys can be combined with the SE transponder clip. As a result, electronic SE double knob cylinders are an important addition to helius with registered key bittings with security cards and master key systems.



Features and benefits of the helius reversible key system

Ideal for master key systems in the private sector and registered key bittings with security cards.



Standard equipment

- Standard protection against bumping
- All cylinders with anti-drill plate
- 5-pin profile cylinder with reversible key mechanism
- Patent-protected keys
- Cylinder body: nickel-plated brass
- Key made from high-quality nickel silver with yellow glass ball as distinguishing feature
- Faceplate screw: M5 x 80 mm, nickel-plated steel
- Key compatible with SE transponder

Extra equipment

- Emergency function (GF)
- Faceplate screw with Security Torx

Technical data	
Order length (BL)	27, 31, 40 ... ascending in 5 mm steps up to BL 95 mm
Key bitting	standard key bitting, registered key bitting, master key system*
Cam	standard
Emergency function (GF)	optional, on both sides from BL 31/31, on one side from BL 27/31
* Central cylinder systems and MK systems	



"I manage mechanical and electronic access points flexibly and easily using just one software program. That's how access organisation works these days."

Roland Weisse, Security Product Specialist



Everything at a glance – everything under control: with the BKS KeyManager you can manage and program mechanical, mechatronic and electronic systems on one user interface.



detect3®



The detect3® locking system relies on the tried-and-tested, conventional locking technology. The protected profile series ensures a high duplication security for cylinders in master key systems. Keys and cylinders with additional mechanical copy-protection feature (spline shaft) are optionally available. With a patent term lasting until 2025, the cylinders provide long-term security.

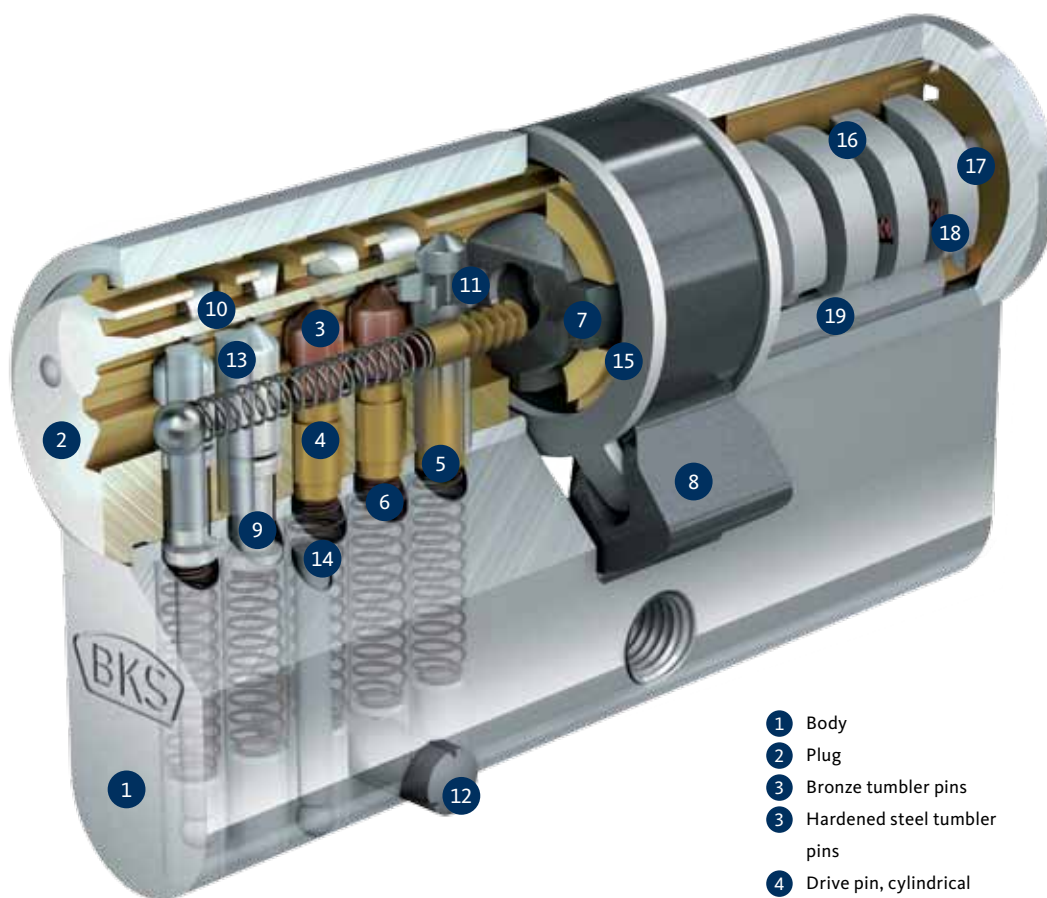
The classic locking system

In both the private and industrial sector, with the detect3 conventional locking system you are always on the safe side. Its reliable and versatile locking cylinders cover the entire range of applications. All cylinders are protected against bumping as standard and can be fitted with certified drilling/picking protection elements if required.

The optional version of the locking cylinder in the detect3 SL system offers the highest level of security against unauthorised unlocking. This is ensured through additional lateral locking elements in the cylinder. At the same time, the query mechanism offers high mechanical key duplication protection for the corresponding keys.

Highlights

- Highly flexible: cylinders with and without a locking bar can be combined so that different security levels can be established within one master key system
- Great operation: the extended key shank makes detect3 well suited for security hardware with cylinder cover
- Simple operation: the familiar upright key position ensures an intuitive operation



- | | |
|---|--------------------------------|
| 1 Body | 10 Scanning locks |
| 2 Plug | 11 Spline shaft |
| 3 Bronze tumbler pins | 12 Body security pin |
| 3 Hardened steel tumbler pins | 13 Drill protection pin, body |
| 4 Drive pin, cylindrical offset, brass | 14 Drill protection pin, plug |
| 5 Drive pin, cylindrical offset, brass | 15 Retaining ring |
| 6 Drive springs | 16 Variation and counter locks |
| 7 Coupling | 17 Axle |
| 8 Cam | 18 Springs |
| 9 Drive pin, mushroom cam, hardened steel | 19 Locking bar |

Cylinder construction

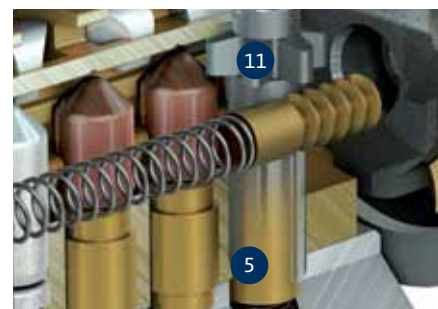
detect3 locking cylinders are based on the tried-and-tested single row pin arrangement and rely on conventional key insertion. Depending on requirements, 5- or 6-pin versions are available.



SL system:
Additional lateral locking elements and detection mechanisms offer the highest level of security against unauthorised unlocking.



Security package:
Picking and drill protection pins together with lateral scanning locks form an effective security package.



Key duplication protection:
The spline shaft together with its detection mechanism ensures a high level of mechanical key duplication protection.



detect3®



Double cylinder

Available as standard cylinder with special cams or with additional features.



Half cylinder

Can be used universally in many additional locking devices.



Padlock

Also available with extra-thin or high shackles.



Cylinder cam lock

Suitable for various letter boxes with different locking levers.



Switching cylinder

With microswitches for controlling external electronic control devices.



Rim cylinder

Locks or unlocks rim locks from the outside of the door.



Knob cylinder

The cylinder thumbturn can be selected, exchanged and replaced.



Key with SE transponder

Function and design combine to form a universal access medium.

One key for all eventualities

The conventional locking system detect3 is the flexible solution when implementing master key systems with high security requirements.

Additional locks – everything included in one solution

Besides double cylinders and half cylinders, the comprehensive cylinder range comprises many additional cylinder types for use in master key systems.

Expansion through electronics - SE double knob cylinder

detect3 keys can be combined with the SE transponder clip. Therefore, electronic SE double knob cylinders are a worthwhile addition to all existing detect3 master key systems.



Features and benefits of the detect3 conventional locking system

The detect3 locking system is optimally suited for master key systems with combined authorisation levels and has numerous useful features and special designs.



Standard equipment

- Tested in accordance with EN 1303 and DIN 18252
- Standard protection against bumping
- 5-pin profile cylinder
- Cylinder body: nickel-plated brass, matt, polished or bronzed
- Key: high-quality nickel silver
- Faceplate screw: M5 x 80 mm, nickel-plated steel

Extra equipment

- Additional locking bar and four spring-loaded locking elements in the cylinder plug (system SL)
- Cylinders with and without locking bar (system SL) can be combined in master key systems
- Spline shaft in the cylinder for high key duplication protection
- Lateral indentation on the key for high key duplication protection
- 6-pin profile cylinder
- Cylinder with protection against seawater
- Faceplate screw with Security Torx

Technical data	
Order length (BL)/5 pins	27, 31, 35 ... ascending in 5 mm steps up to 95 mm
Order length (BL)/6 pins	31, 35, 40 ... ascending in 5 mm steps up to 95 mm
Special length	max. 250 mm
Key bitting	registered key bitting, master key system
Cam	standard, special versions
Emergency function (GF)	optional, on both sides from BL 31/31, on one side from BL 27/31
Freewheel function (FZG)	optional, from BL 31/31
Drilling protection	optional, BSKA, BSKB
Drilling/picking protection	optional, BZKB
DIN 18252/5 pins	grade 70, optionally grade 71-B5 (with BSKA), grade 71-BZ (with BZKB)
DIN 18252/6 pins	grade 80, optionally grade 82 (with BZKB)
Key related security according to EN 1303/5 pins	grade 4
Key related security according to EN 1303/6 pins	grade 6
Resistance to attack according to EN 1303	grade 0, optionally grade 2 (with BZKB)
VdS variant	optional
SKG** and SKG*** variant	optional
A2P*	optional



PZ 88



Quality, precision and durability are the trademarks of the **PZ 88** standard cylinder. The compact range offers the most common cylinder types for single key bitting or keyed-alike locking without a security card.

The standard locking system

Security and variety come as standard with the PZ88 locking system: the range not only comprises double cylinders, half cylinders and cylinders with thumbturn, but also padlocks and rim locks in the BKS normal profile. Locking cylinders of this series are used for single key bitting or keyed-alike locking without security card. They come with optional emergency function on one or on both sides. The keys are also available with an individual customer embossment if desired.

Highlights

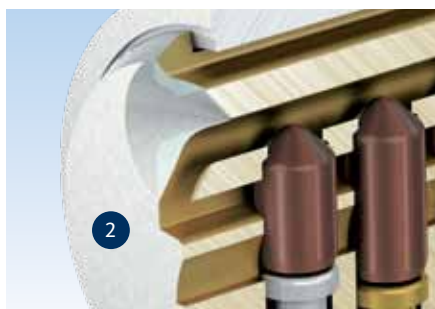
- Quick duplication: thanks to engraved key coding, readout of the originals is not required
- Simple operation: the familiar upright key position ensures an intuitive operation



- | | |
|---------------------------------|---------------------------|
| 1 Drive pin, mushroom cam | 7 Coupling |
| 2 Plug | 8 Cam |
| 3 Tumbler pins | 9 Drive pin, mushroom cam |
| 4 Drive pin, cylindrical offset | 10 Retaining ring |
| 5 Drive pin, cylindrical | |
| 6 Drive springs | |

Cylinder construction

PZ88 profile cylinders have 5 pin tumblers, are protected against bumping and have an anti-drill plate as standard.



Easy operation:
Plug with conventional, paracentric key way and key channel for better insertion



Protection against manipulation:
Special drive pin shapes prevent manipulation with picking tools.



Special functions:
Different forms of coupling enable important features such as the emergency function.

**Double cylinder**

Available as standard cylinder or with emergency function.

**Half cylinder**

Can be used universally in many additional locking devices.

**Padlock**

Also available with extra-thin or high shackles.

**Knob cylinder**

The modular concept with detachable handle.

**Service cylinder**

Completely pre-mounted for quick assembly of keyed-alike sets.

**Assembly case**

Contains all tools and parts for pinning the service cylinder.

Quick duplicate key service

Keys with BKS standard profile can be copied easily and quickly on standard commercial cutting machines.

Keyed-alike locking in an instant

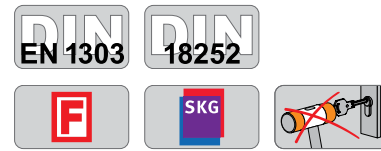
Service cylinders are completely pre-assembled at the plant and can be turned into keyed-alike cylinders in a few steps.

Electronic order handling

Fixed order numbers are assigned to the whole range. In this way, orders can be recorded and tracked directly. An availability check is also possible.

Features and benefits of the PZ 88 conventional locking system

The PZ 88 locking system is our standard product within the mechanical locking technology range. The compact range offers the most common cylinder types for keyed-alike locking and customer embossments.



Standard equipment

- Tested in accordance with EN 1303 and DIN 18252
- Standard protection against bumping
- 5-pin profile cylinder with paracentric key profile
- Cylinder body: nickel-plated brass or matt brass
- Key: nickel-plated steel
- Faceplate screw: M5 x 80 mm, nickel-plated steel
- Key coding for easy ordering of duplicate keys

Extra equipment

- Emergency function (GF)
- Faceplate screw with Security Torx

Technical data	
Order length (BL)	27, 31, 35 ... ascending in 5 mm steps up to 80 mm
Key bitting	standard locking, keyed-alike locking
Cam	standard
Emergency function (GF)	optional, on both sides from BL 31/31, on one side from BL 27/31
Freewheel function (FZG)	–
Drilling protection	optional, BSKA
DIN 18252	grade 70, optionally grade 71-BS (with BSKA)
Key related security according to EN 1303	grade 4
Resistance to attack according to EN 1303	grade 0
VdS variant	–
SKG** variant	optional



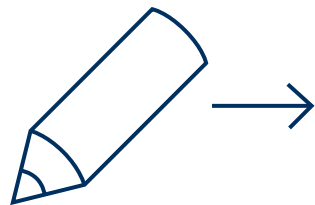
"Plan, manage and order? I can do all of that with the BKS MasterKeySystem. Around the clock – seven days a week."

Frank Manusch, Security Product Specialist



With the BKS MasterKeySystem you have an easy-to-use online platform with numerous functions for planning and ordering. Step by step the system takes you through the entire master key system and you can then process your order conveniently and securely. The MasterKeySystem also offers you unique advantages when expanding existing systems and reordering keys and locking cylinders.

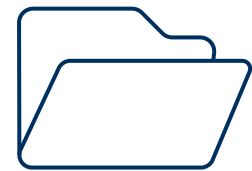
Planning the master key system



Ordering the master key system



Managing the master key system



The products alone are not a solution. You can only benefit from security, function and cost-effectiveness with the corresponding service. Therefore, the GU Group continues the system concept of the product range in the service offer. Intelligent software solutions, user-friendly online tools and an extensive retailer network feed into one another and simplify your everyday work.

The BKS MasterKeySystem offers flexible support

Use the intelligent BKS MasterKeySystem to plan master key systems with mechanical, mechatronic and electronic locking cylinders. The user-friendly online platform guides you through the planning process step by step.

The BKS MasterKeySystem ensures smooth processes

As soon as you have set up your master key system using the BKS MasterKeySystem, the system leads you directly through the straightforward ordering procedure. The order function can also be used to expand existing master key systems and to reorder keys and cylinders.

With the BKS KeyManager you have everything under control

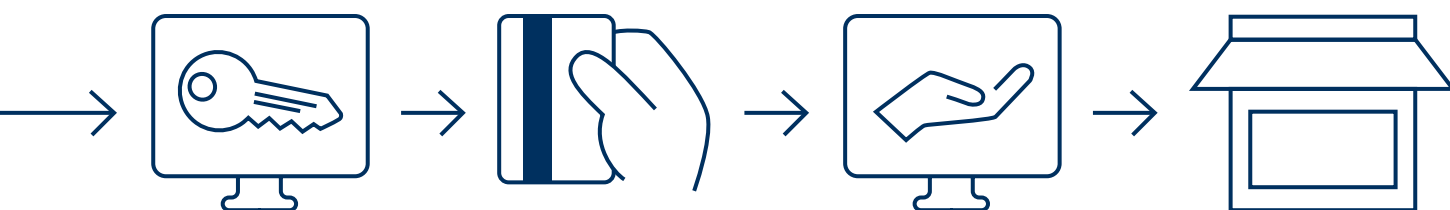
With the BKS KeyManager you have your whole master key system under control on just one user interface. This software manages mechanical, mechatronic and electronic cylinders and keys. And also flexible access points such as wall readers – clear, convenient and secure.

Reordering

Duplicate keys

Internet retailers

On-site retailers



The BKS MasterKeySystem delivers supplies quickly

Log in and get going: the BKS MasterKeySystem also makes reordering keys and cylinders an easy process. Thanks to your saved master key system data, reordering is simple and takes just a few clicks.

It's even faster with a security card reader

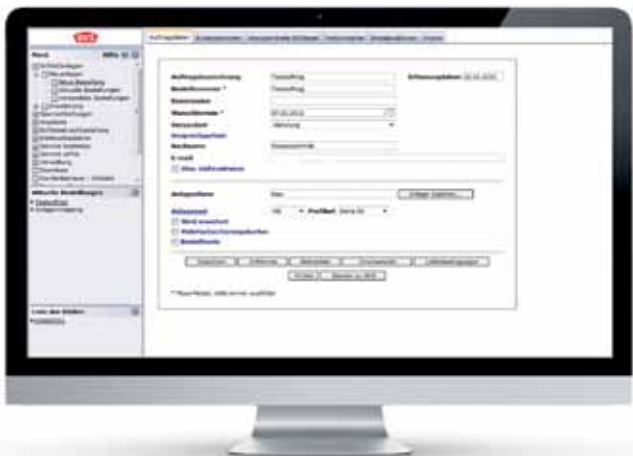
Reordering, expanding or registered key bittings: the BKS security card reader makes everything even simpler. Security cards can be read directly in the lock and security equipment store. Data is stored on the device and can be transferred directly via the BKS MasterKeySystem when ordering duplicate keys.

Search and find quickly online

Where is the nearest BKS retailer? You are sure to find it using the search field on the main menu of the Gretscht-Unitas website. Just provide a postcode or a city or select an area and a list appears straight away with competent locksmiths and specialist retailers who can help you further on-site.

Personal and competent contact person

BKS is always there for you when you need us. Our comprehensive network of BKS specialist dealers guarantees competent advice and reliable service for all aspects of your master key system.



BKS MasterKeySystem: plan and order online

With the BKS MasterKeySystem, you can count on error-free data transfer and reduced dispatching expenses, shortened delivery times and constant updating of the whole system when planning and ordering master key systems.

MKS is the online platform for planning and ordering master key systems. Numerous user friendly functions simplify the operation of the whole master key system and ensure a smooth ordering process. Together with the mobile security card reader, MKS offers unique advantages when expanding existing master key systems and reordering keys and cylinders.

Functions

- Planning and ordering of master key systems with mechanical, mechatronic and electronic locking cylinders
- Extending existing master key systems
- Ordering of registered key bittings
- Reordering keys and cylinders
- Key combination records for download
- Master key system data for use in the BKS KeyManager
- Key identification
- Plausibility check



Portable security card reader: easy reordering

Reordering cylinders and keys has never been so easy: the mobile security card reader is a full-featured replacement for the commonly used order slip imprinters and also offers decisive cost and time savings.

The mobile device works quickly, functions independently from the PC and saves you unnecessary costs. Security cards can be read directly on site or in the lock and security equipment store. The data records are stored in the device and can be used at a later time for reordering and extension of master key systems and registered key bittings through MKS.

Functions

- Reading of security cards for master key systems and registered key bittings with security cards
- Storage of the read-in data records
- Transfer of the data records to MKS
- Costs for order slip procurement eliminated





BKS KeyManager: manage master key systems efficiently

Manage and program master key systems securely and efficiently. You have the right solution with the BKS KeyManager: the software unites mechanical, mechatronic and electronic components in a single system. The advantage: you have all cylinders and keys under control on one user interface.

If purely mechanical master key systems are managed at first, the KeyManager can be optimally adapted, thanks to graduated software packages. When expanding the master key system with electronic and mechatronic locking cylinders, the KeyManager is easy to extend.

Functions

- Comprehensive administration of mechanical, mechatronic and electronic cylinders and wall readers with one user interface.
- Display and printing of mechanical and electronic access authorisations
- Easy programming through a locking scheme matrix
- Programming cylinders, from simple YES/NO programming to time-controlled authorisation or special functions
- Data transmission to electronic cylinders, either offline through the programming device, Data on Transponder (virtual networking), or online via network and radio control
- Event query
- Networkable (client/server)



Overview of performance and product features



	Mechanical locking systems			
	Conventional locking systems		Reversible key systems	
	PZ 88	detect3	helius	livius
Locking variants				
Master key systems		■	■	■
Keyed-alike cylinder	■	■	■	■
Programmable				
Registered key biting		■	■	■
Functions				
Standard function	■	■	■	■
Emergency function	■	■	■	■
Freewheel function		■		■
Short-term release				
Permanent release				
Daytime release				
Standard design				
Cylinder body, nickel-plated brass	■	■	■	■
Cylinder body, matt nickel-plated				
Anti-bump feature	■	■	■	■
Modularly changeable				
Key duplication protection		■	■	■
Optional features				
Protection against seawater		■		■
SL system		■		■
Drilling protection	■	■		■
Drilling/picking protection		■		■
VdS version		■		
SKG version	■	■		■
A2P version		■		■
Key duplication protection		■		■
Performance features				
Patent protection		■	■	■
Compatible with janus SE cylinders				
Can be ordered through MKS		■	■	■
Key combinable with SE transponder		■	■	■
Event recorder				
Management via KeyManager		■	■	■
Programming via KeyManager				
Online-enabled				
Number of locking cycles per standard battery				
Multilevel low-battery alarm				

	Electronic locking systems	
	Mechatronic and electrical cylinders	
janus	janus SE cylinder	SE double knob cylinder
■	■	■
■	■	■
	■	■
■		■
■	■	
■		
■		■
	■	■
		■
		■
■		
	■	■
■	■	
■	■	
■	■	
■	■	■
■	■	
■	■	■
■	■	■
■	■	■
■	■	■
	■	■
■	■	■
	■	■
	■	■
	■	■
	Up to 600,000	Up to 350,000
	■	■



Certified in accordance with EN 1303 - Building hardware – Cylinders for locks – Requirements and test methods



Certified in accordance with DIN 18252 – Profile cylinders for door locks – Terminology, dimensions, requirements, marking



Certified in accordance with EN 15684 - Building hardware – Mechatronic cylinders – Requirements and test methods



CE marking



Suitable for use on fire protection doors



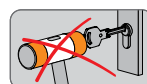
Available in VdS version



Available in SKG version



Available in A2P version



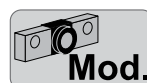
Anti-bump feature



Patent protection



Suitable for use in master key systems



Modular cylinder construction



Offline system variant



Online system variant



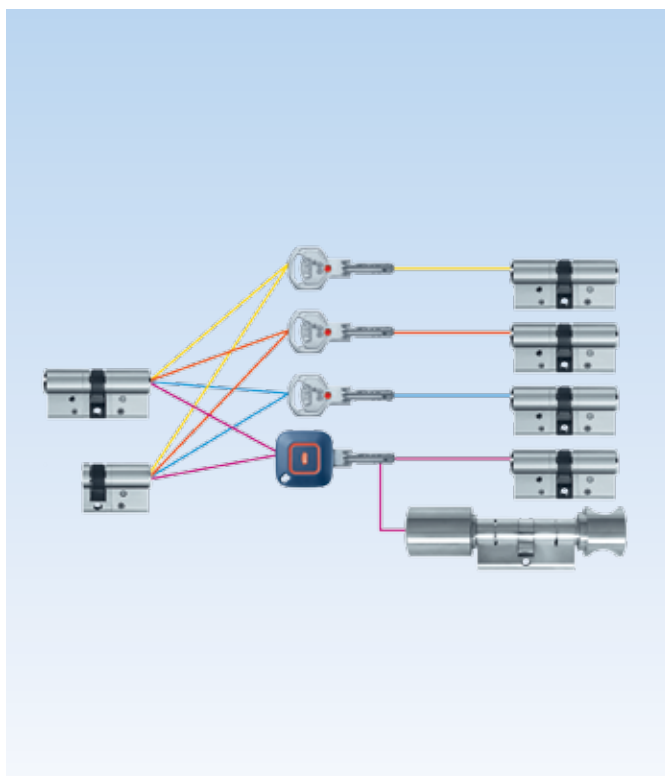
Data on Transponder system variant



Explosion protection

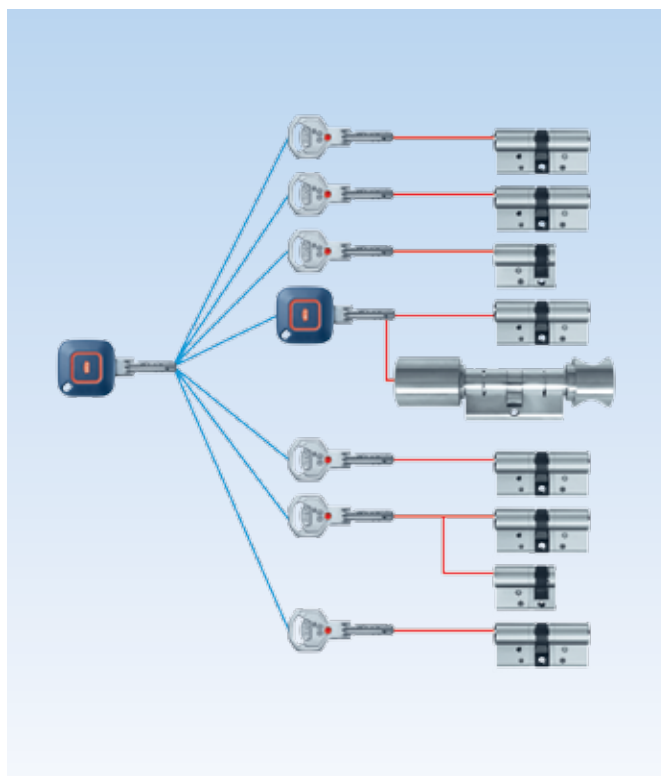


Three variants – and which one suits you? Master key systems give you a high degree of individual user convenience and support you by managing the locking authorisation of individual doors in the existing building. According to the requirements and the complexity of the master key system, three variations of master key systems are available: grand master key system, master key system and central cylinder system.



Variant 1: central cylinder system

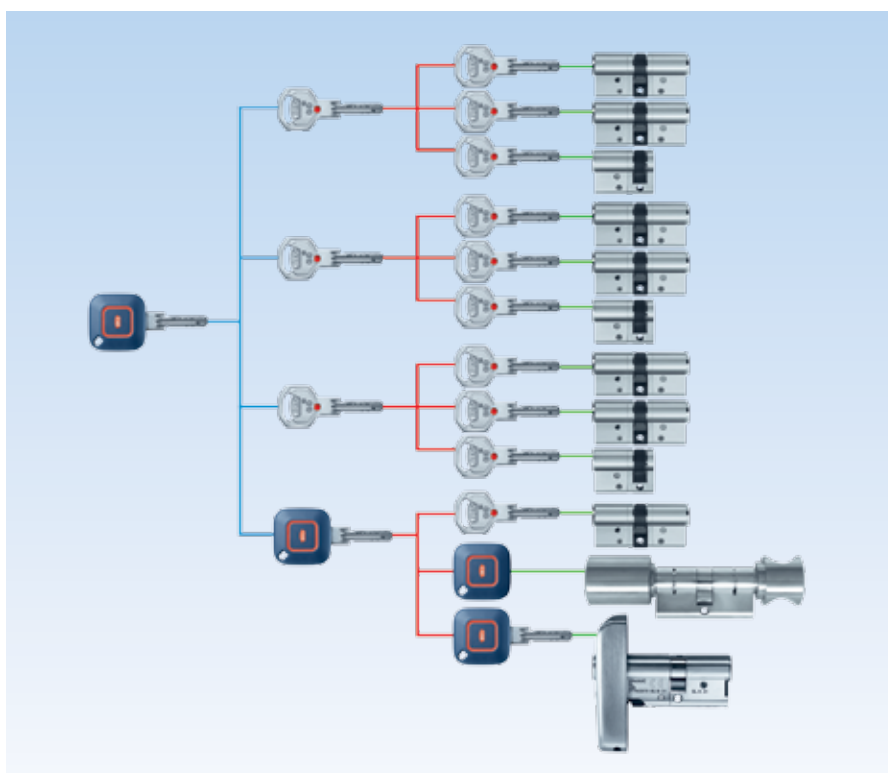
The classic option for residential complexes, privately owned homes and freehold flats: central cylinder systems can be assembled from as many different cylinders as are required. Each key locks one or more central cylinders.



Variant 2: master key system

Master key systems can be used advantageously in office buildings, public facilities and on plant premises. The master key system consists of many cylinders, each of them locking differently. In principle, the single key allocated to a particular cylinder never fits another cylinder. The master key is the only superior key controlling all cylinders of the system.





Variant 3: grand master key system

The optimal solution for office buildings, universities or hotels: with a grand master key system you establish differing authorisation levels. The system consists of a random number of differently locking cylinders with different hierarchy levels or key biting groups. The superior grand master key controls all cylinders.





Unique to the industry and region – the main BKS plant in Velbert is certified according to the standard for environmental requirements EN ISO 14001:2009 and the standard for energy requirements EN ISO 50001:2011. This was approved by the independent, accredited certification body (AGQS) in February 2015. A quality assurance system according to EN ISO 9001:2008 does not just confirm security in writing.

Conserves resources and the environment: environmental management at BKS

The certified environmental management system according to ISO 14001 is valid worldwide. It represents a forward-looking approach towards personal responsibility and commitment. With the company moving towards sustainability, accompanied by the appropriate measures, we are continuously improving the environmental management system.

Efficiency up, emissions down: energy management at BKS

The aim of the energy management system according to ISO 50001 is to continually improve the company's energy-related performance. By optimising "energy performance", BKS improves its energy-related performance and increases its energy efficiency. Positive side-effect: by reducing energy consumption, emissions that result from energy and heat generation are also reduced.

Product and service quality can be planned: quality management at BKS

EN ISO 9001:2008 defines a company's structural, operational and quality management requirements. AGQS certification confirms that the internal processes – from development through to sales and customers – meet the standard requirements and the high-quality requirements at BKS.



Signed and sealed: BKS takes on responsibility for its customers and the environment.

Glossary

Anti-drill plate (ABS): drive pin hardened

Drilling protection (BSKA): pin pairs hardened

Drilling/picking protection (BZKB): pin pairs hardened, plug reinforcement, body reinforcement, body security pin

Drilling protection (BZKB): plug disc hardened (only in master key systems)

Drilling protection (BZWB): plug disc hardened, body reinforcement

Drilling/picking protection (BZWC): plug disc hardened, body reinforcement, body security pin

Standard function: if a key is inserted in one side of the cylinder, the cylinder will be blocked on the opposite side.

Emergency function (GF): locking cylinder can still be operated when a correct key is already inserted in the cylinder from the opposite side (with one-sided emergency function only possible from the outside).

Freewheel function (FZG): after removing all keys, the cam is free to rotate. Cam decoupled, even under preload. Use in customary multi-point locks with freewheel function.

8-way adjustable cam with half cylinders: to set to the required position, use the clamping bolt on the rear side of the locking cylinder.

Dust cap: in particularly dust-laden environments, special protection of the cylinder locking mechanism using a protective cap is recommended.

Protection against seawater: cylinder versions with seawater protection provide increased security when used in highly corrosive environments. All moving parts are made of brass or stainless steel.

Exclusion of liability

The information provided in this publication consists of product descriptions. This is general information based on our experience and tests and therefore does not take any specific application into account. No claims for compensation can be made on the basis of the product descriptions.

Although we have made every attempt to ensure the information provided here is accurate, it is non-binding. It should be adapted to the respective construction projects, usage and specific on-site demands.

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BUILDING MANAGEMENT SYSTEMS

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