

# COMPLETE ASSORTMENT RETAIL DEALER 2019



## Standards for your orders

Please note that we assume you require the following standard equipment when processing your orders: If you wish to make any changes, please let us know:

Number of keys for coded single-differ locks:	3
Number of keys for master key system cylinders:	As per order
Lock with coded single-differ locks:	New lock, individually keyed
Lock with master key system cylinder::	As per order
Coupling:	Slide coupling
Anti-drill protection:	Standard
Anti-shatter protection:	No
Certificate (VDS, SKG, etc.):	No
Cylinder colour:	Nickel
Special features:	None
Key embossing:	ABUS / neutral
Profile:	Factory profile

### Packaging

Cylinder without security card:	Box
Cylinder with security card:	Presentation packaging
Master key systems:	Box, or master key system packaging for 10 or more cylinders

# About ABUS

Confidence and quality since 1924



## Made in Germany quality

Since 1924, ABUS has been making our lives safer and providing a comforting sense of security all over the world. Using our experience and know-how, we are developing tomorrow's technology today. Our constant growth and many years of experience make us experts in security and provide the foundations for a secure future.

## Reassuringly secure

ABUS security solutions for intelligent building protection are in use all over the world, ranging from door and window locks, through mechanical and electronic locking systems, to alarm systems and video surveillance solutions. ABUS uses a clever design cast from a single mould to keep buildings secure. The ABUS molecule represents the networking of our versatile, user-friendly security products.

## A long-term partnership

Close collaboration with our retail partners is important to us. We want to work with you to implement exciting projects. We offer comprehensive support with your projects – from locking system planning through product selection, to system implementation .





# About ABUS

## Your benefits as an ABUS partner



From highly secure entrances to modern glass doors for offices, through to cellar doors and letter boxes – we provide the perfect solution, whatever your safety requirements.



In addition to industrial facilities, you can also take advantage of self-install systems and in-house key reproduction, so as to be able to offer your customers a rapid and comprehensive service.



We will provide in-depth product knowledge during individual training sessions, along with arguments to support sales.



Together with our customer service team, you are bound to find a solution for every challenge. If the worst should happen, our customers know that they can rely on us.



We provide you with system-specific promotional materials. We will attract your customers' attention with appealing advertising campaigns and encourage sales.



Your dedicated account manager will attend to the requirements of both your internal and external staff. We are happy to meet your delivery deadlines.



Be it individual, entire key system or decorative packaging – choose your ideal solution from our wide range of packaging.



An ABUS locking system allows mechanical and electronic locking cylinders to be flexibly combined at any time.



Our products are entirely "Made in Germany", thanks to a high level of in-house vertical manufacturing.



# About ABUS

## Maximum security thanks to patented technologies



### Your daily companion

The locking cylinder is the core component of every door. Your key conveniently opens doors to apartments, houses and business premises every day. Keys are with their users virtually around the clock. To provide users with optimal protection, ABUS locking systems can also be adapted perfectly to meet individual requirements.

### Multi-dimensional protection

Innovative technology provides reliable protection against mechanical attacks on the locking cylinder, and manipulation of keys. Long patent terms and indefinite trademark protection ensure a high degree of technical and legal copy protection.

### Legal copy protection

Thanks its patent and trademark protection, legal copy protection guarantees that keys cannot be produced in the same way by other manufacturers, thereby protecting our innovative technologies from being counterfeited.

### Technical copy protection

The Intellitec system in the Bravus locking system, the Inspect system in the Vela and the Intop system in the Vitess and Zolit ensure a high degree of technical copy protection. As a result, the technology provides reliable protection against mechanical interference in the locking cylinder and illegally copied keys.

### Locking systems with security card

The security card provides additional protection as this must be presented before additional cylinders and keys can be ordered. Our locking systems are exclusively supplied with a security card. The magnetic strip on the security card allows you as a specialist retailer to order quickly and conveniently via our online ordering system.

\*Details of patents can be found on the product pages

# About ABUS

## A strong, secure partnership



### Forward-thinking planning

We will provide advice and guidance with the planning, preparation and processing of your order, and with the follow-up. Even in the most challenging situations, we will continue to provide support and lend a helping hand.

### Your local point of contact

Thanks to our extensive sales network, we are your partner on the spot. Your dedicated account manager will also attend to the requirements of your internal staff. The loyalty of our employees offers you a long-term partnership.

### Support for large projects

In collaboration with our internal and external sales teams, we will support you with the acquisition of potential key system projects, and help you prepare a quote and fulfil the order.

# About ABUS

## The locking system experts



### German precision

At our site in Jahnsdorf, Germany, we develop high-quality, innovative locking systems and master key systems. Our products are “made in Germany” from start to finish, from the cylinder housing to the key pin. This way, we can guarantee maximum product quality and a long product lifespan.

### Future-proof and flexible

A locking system is an investment in security and should last for many years. To ensure they can meet all future demands, ABUS locking systems can be expanded at any time, providing maximum scope for development and modification. We can continue to supply add-on products for your locking system for many years to come.

### The right solution for every property

In the premium segment, we offer highly competitive, customised solutions, ranging from entry-level products to high-end cylinders. You can also choose from a wide variety of special features, such as different cylinder colours, certifications and anti-drill and anti-pull options, to compile your very own individual locking system.



# About ABUS

## Customised security solutions for any building

From family homes, through schools and small businesses, to hospitals, universities and prisons, customers entrust us with their security needs and make us part of their highly sensitive processes.

We offer customised security solutions for any building. References from well-known clients both at home and abroad are testament to our industry-specific solutions and also provide a reassuring sense of security for your customers.



Burj Al Arab, UAE



Al Zeina, UAE



Emirates Palace Hotel, UAE



Ingolstadt Freight Centre, Germany



Stralsund Ozeaneum, Germany



Clermont Ferrand Hospital, France



Sparkasse Dillenburg, Germany



Universidad Laboral de Gijón, Spain



Herdecke Gas Power Station, Germany



Balmer See Golf & Spa Hotel, Germany



Messe Frankfurt, Germany



Albrechtsberg Palace, Germany

# System Bravus

## No compromise



### Highlights

- Highest protection against unauthorized key copying and manipulation (of the cylinder) due to the Intellitec system
- Comfortable and stable reversible key with horizontal key insert
- Patent protection until 2030\* and unlimited trademark protection
- Highest technical and legal copy protection
- Drilling protection as standard
- Wide application possibilities operated by compatible system levels for small and complex locking systems
- Economical solution by creating a single locking system within one building

Facts	Bravus.1000	Bravus.2000	Bravus.3000	Bravus.4000
1st locking row (spring loaded)	✓	✓	✓	✓
2nd locking row (spring loaded)		✓	✓	✓
3rd locking row			✓	
3rd locking row (spring loaded)				✓
Compatibility	2000 + 3000 2000 + 4000	1000 + 3000 1000 + 4000	1000 + 2000	1000 + 2000

\* max. patent term 2030

# System Bravus.4000

No compromise



## Technical details

- Fourth level of system Bravus
- Intellitec System for highest technical copy protection
- Patent protection\*, unlimited trademark
- 6-pin system
- 15 spring-loaded locking elements on three locking rows with a waved code line
- Options: different types of cams, couplings and special features available
- 14 mm core diameter



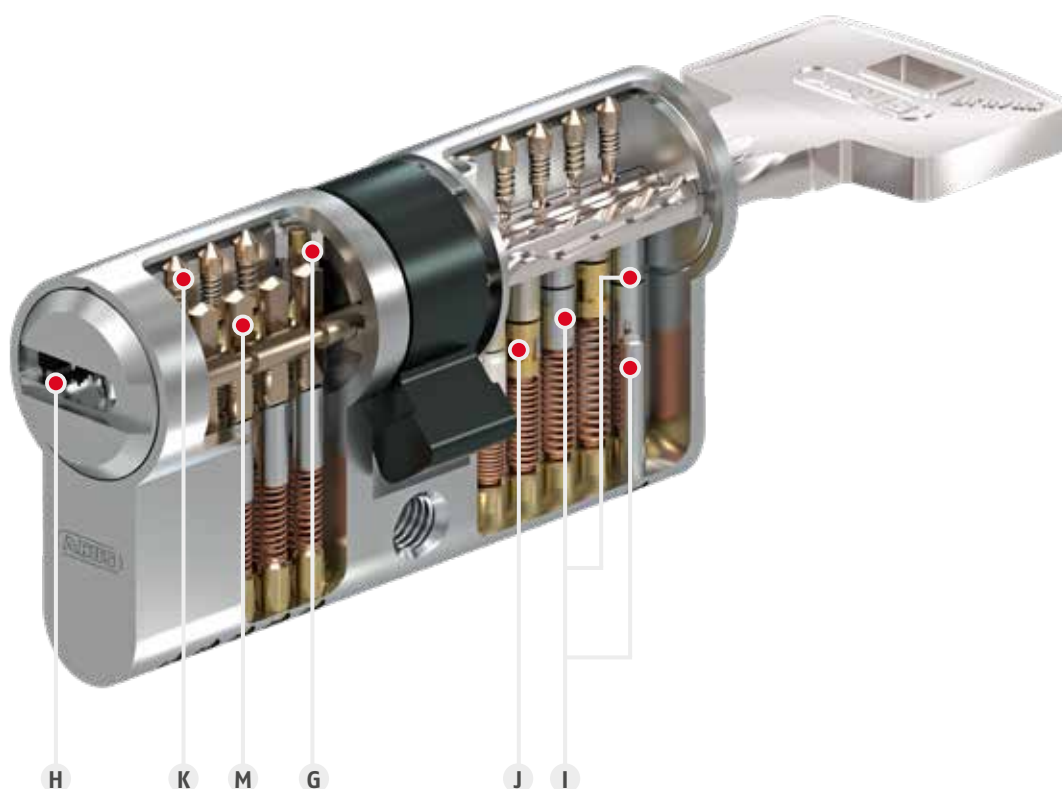
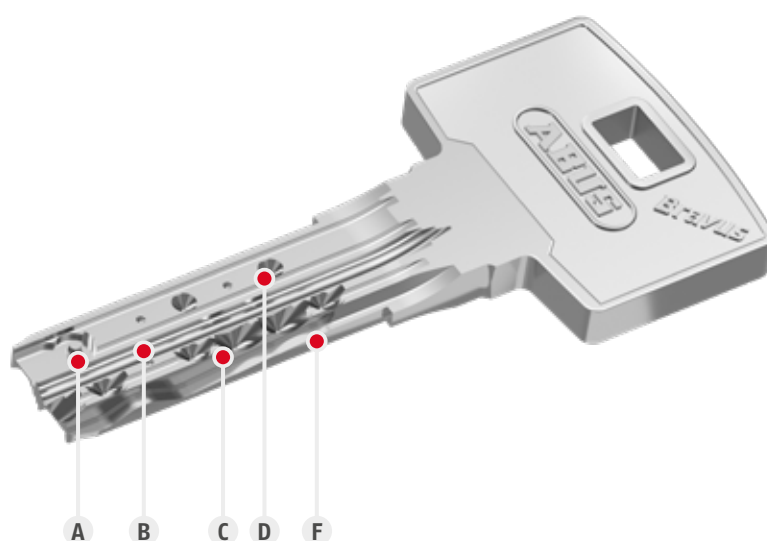
\* max. patent term 2030



# System Bravus.4000

- A** Intellitec Pin on the key tip
- B** Multiple paracentric reversible profile
- C** Dimples for the first locking row
- D** Dimples for the second locking row
- F** Waved code line for the third locking row

- G** Intellitec Detector
- H** Horizontal key insert
- I** Standard drill protection
- J** First spring loaded locking row
- K** Second spring loaded locking row
- M** Third spring loaded locking row



# System Bravus.3000

No compromise



## Technical details

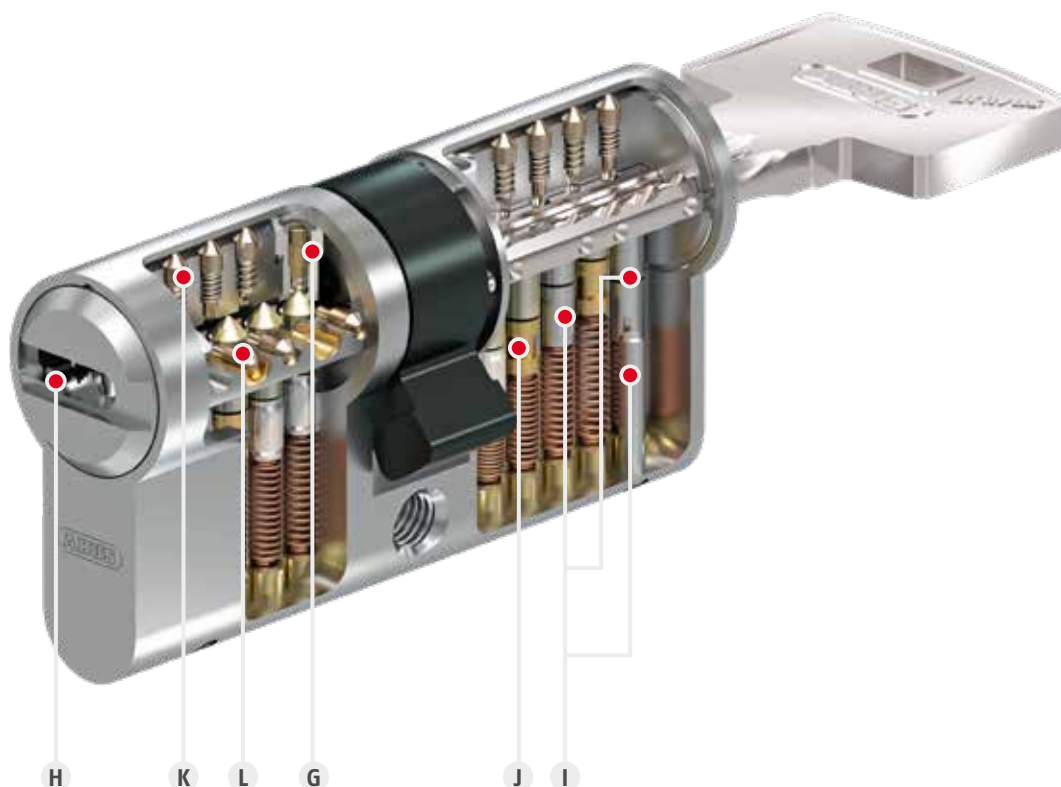
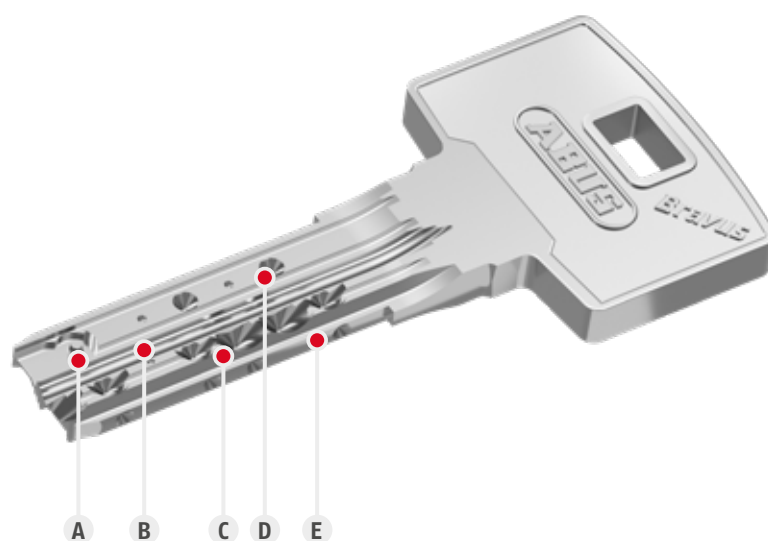
- Third level of system Bravus
- Intellitec System for highest technical copy protection
- Patent protection\*, unlimited trademark
- 6-pin system
- 10 spring-loaded locking elements and up to 6 side code pins on three locking rows
- Options: different types of cams, couplings and special features available
- Cylinders optionally available in modular format
- 14 mm core diameter



\* max. patent term 2030

# System Bravus.3000

- A Intellitec Pin on the key tip
- B Multiple paracentric reversible profile
- C Dimples for the first locking row
- D Dimples for the second locking row
- E Dimples for the third locking row
- G Intellitec Detector
- H Horizontal key insert
- I Drill protection
- J First spring loaded locking row
- K Second spring loaded locking row
- L Third locking row





# System Bravus.2000

No compromise



## Technical details

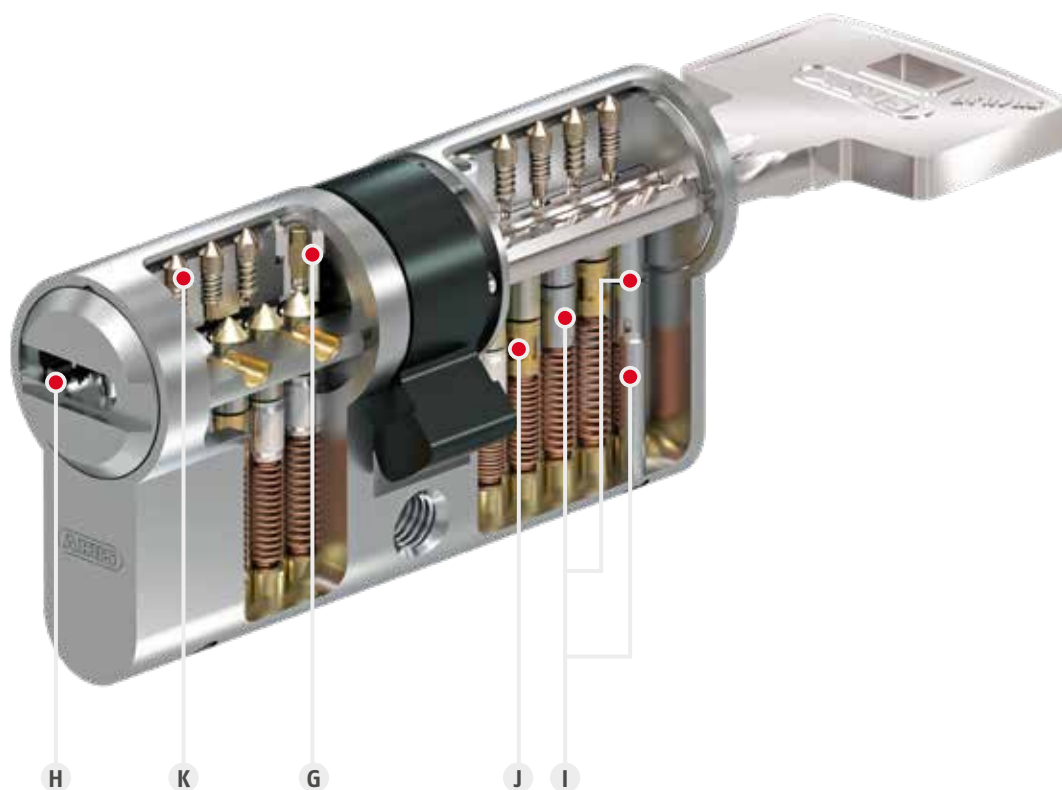
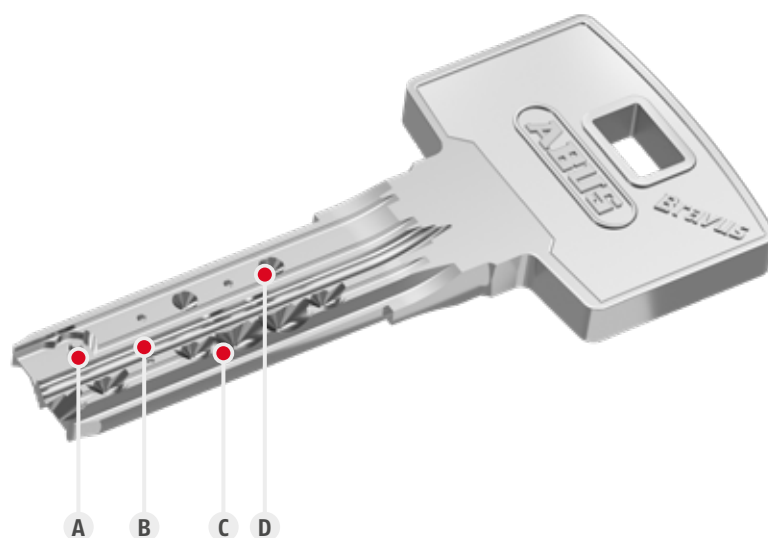
- Second level of system Bravus
- Intellitec System for highest technical copy protection
- Patent protection\*, unlimited trademark
- 6-pin system
- 10 spring-loaded locking elements in two rows
- Options: different types of cams, couplings and special features available
- Cylinders optionally available in modular format
- 14 mm core diameter



\* max. patent term 2030

# System Bravus.2000

- A Intellitec Pin on the key tip
- B Multiple paracentric reversible profile
- C Dimples for the first locking row
- D Dimples for the second locking row
- G Intellitec Detector
- H Horizontal key insert
- I Drill protection
- J First spring loaded locking row
- K Second spring loaded locking row



# System Bravus.1000

No compromise



## Technical details

- First level of system Bravus
- Intellitec System for highest technical copy protection
- Patent protection\*, trademark
- 6-pin system
- 6 spring-loaded locking elements
- Options: different types of cams, couplings and special features available
- Cylinders optionally available in modular format
- 14 mm core diameter

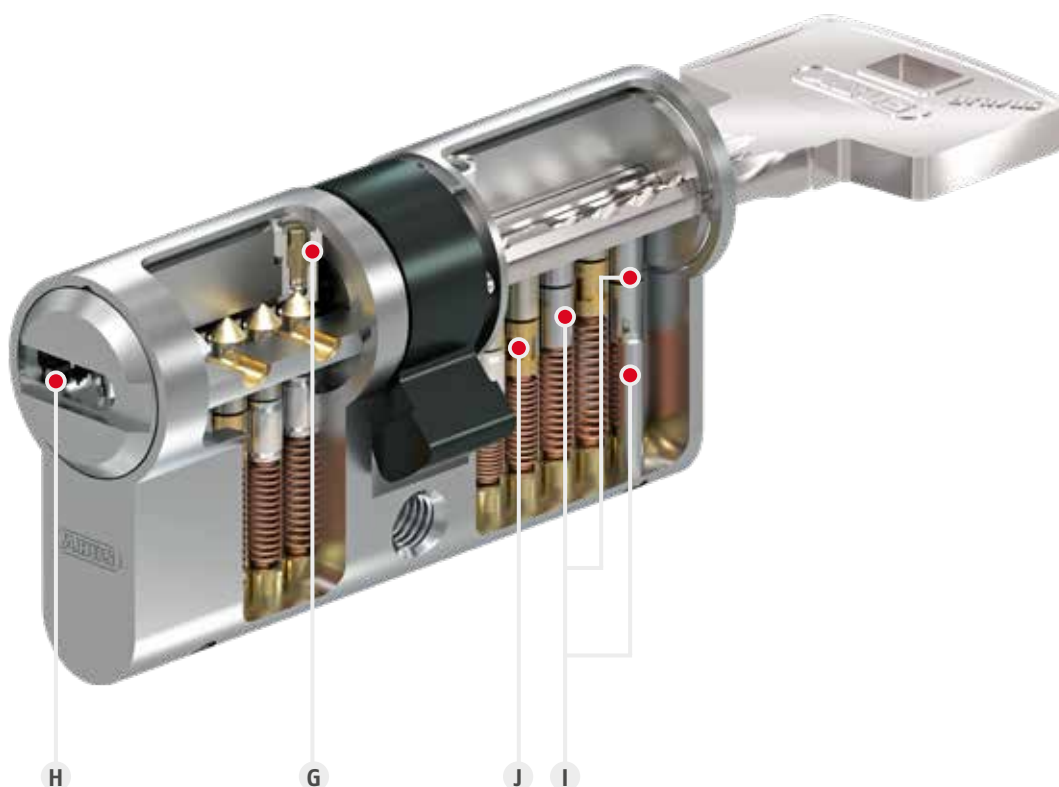
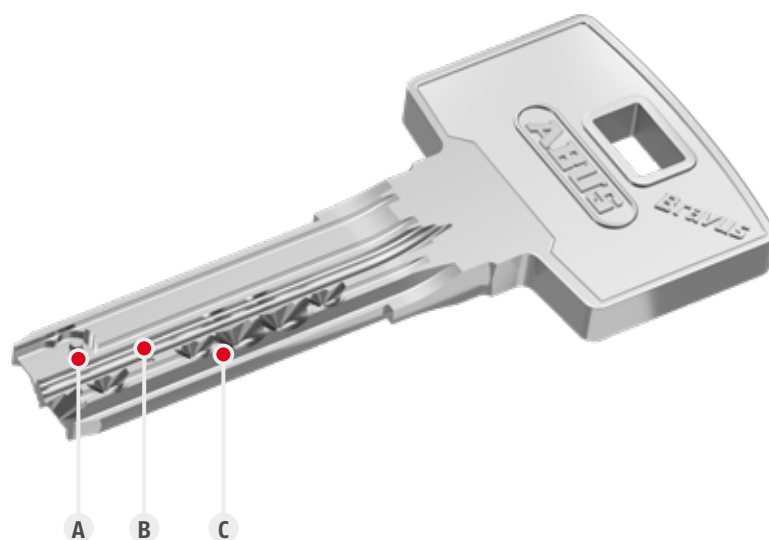


\* max. patent term 2030



# System Bravus.1000

- A Intellitec Pin on the key tip
- B Multiple paracentric reversible profile
- C Dimples for the first locking row
- G Intellitec Detector
- H Horizontal key insert
- I Drill protection
- J First spring loaded locking row



# Locking system Vela

Feel secure at home



Vela

## Highlights

- Additional detection of access authorization with the Inspect System
- Comfortable and modern reversible key with horizontal key insertion
- Patent protection until 2030\* and unlimited trademark protection
- High technical and legal copy protection
- Drilling protection
- Ideal for small master key systems, for example in apartment buildings and small commercial properties
- Perfect for flats and private homes, either as a single-differ lock or as keyed-alike cylinders

\* max. patent term 2030

# System Vela.2000

Feel secure at home



## Technical details

- Inspect system for high technical copy protection
- 6-pin reversible key system
- Patent protection\*, unlimited trademark
- 10 spring-loaded locking elements in two rows
- Options: different types of cams, couplings and special features available
- Cylinders optionally available in modular format
- 14 mm core diameter



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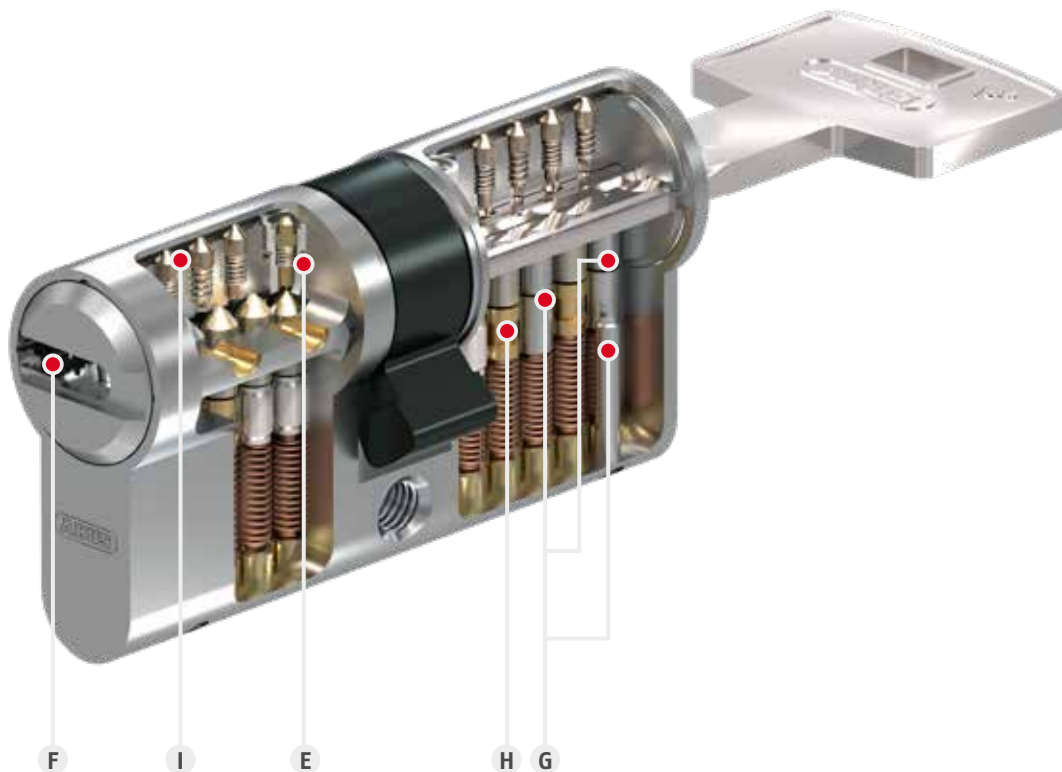
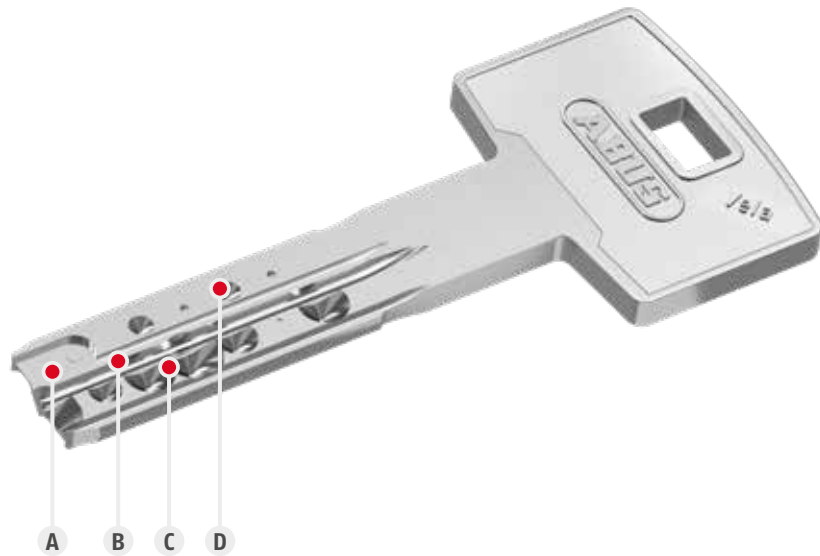
\* max. patent term 2030

# System Vela.2000

- A Inspect system on the key tip
- B Multiple paracentric reversible profile
- C Dimples for the first locking row
- D Dimples for the second locking row

- E Inspect system
- F Horizontal key insert
- G Drill protection
- H First spring loaded locking row
- I Second spring loaded locking row

Vela





# System Vela.1000

Feel secure at home



## Technical details

- Inspect system for high technical copy protection
- 6-pin reversible key system
- Patent protection\*, unlimited trademark
- 6 spring-loaded locking elements
- Options: different types of cams, couplings and special features available
- Cylinders optionally available in modular format
- 14 mm core diameter



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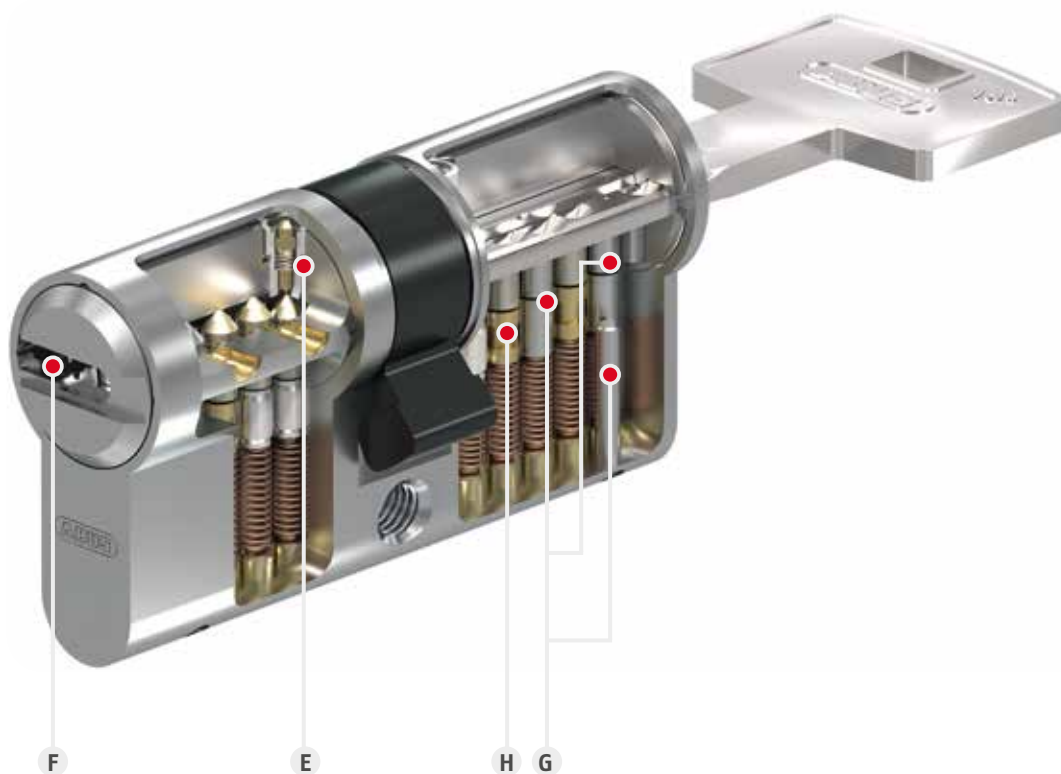
\* max. patent term 2030

# System Vela.1000

- A Inspect system on the key tip
- B Multiple paracentric reversible profile
- C Dimples for the first locking row

- E Inspect system
- F Horizontal key insert
- G Drill protection
- H First spring loaded locking row

Vela



# System Vitess

## Simply secure



Vitess

### Highlights

- Further development on the basis of our reliable system V14
- Effective protection against cylinder manipulation and illegal key copies
- Patent protection until 2034\* and unlimited trademark protection
- Vertical key insertion
- Drilling protection as standard
- Combination of the different system levels in one building offers economically viable solutions
- Thank to different cylinder types and special features well suited for building-specific requirements
- Wide product range for complex locking systems

Facts	Vitess.1000	Vitess.2000	Vitess.4000
1st locking row (spring loaded)	✓	✓	✓
2nd locking row		✓	
2nd locking row (spring loaded)			✓
Compatibility	2000 or 4000	1000	1000

\* Filed, max. patent term 2034

# System Vitess.4000

Simply secure



## Technical details

- Third level of system Vitess
- Intop System for high technical copy protection
- Patent protection\*, unlimited trademark
- 6-pin system
- 6 spring loaded locking elements
- Up to 4 spring loaded coding pins in the second locking row
- Coded profile rib with profile control pin
- High precision curved profile
- Options: different types of cams, couplings and special features available
- 14 mm core diameter



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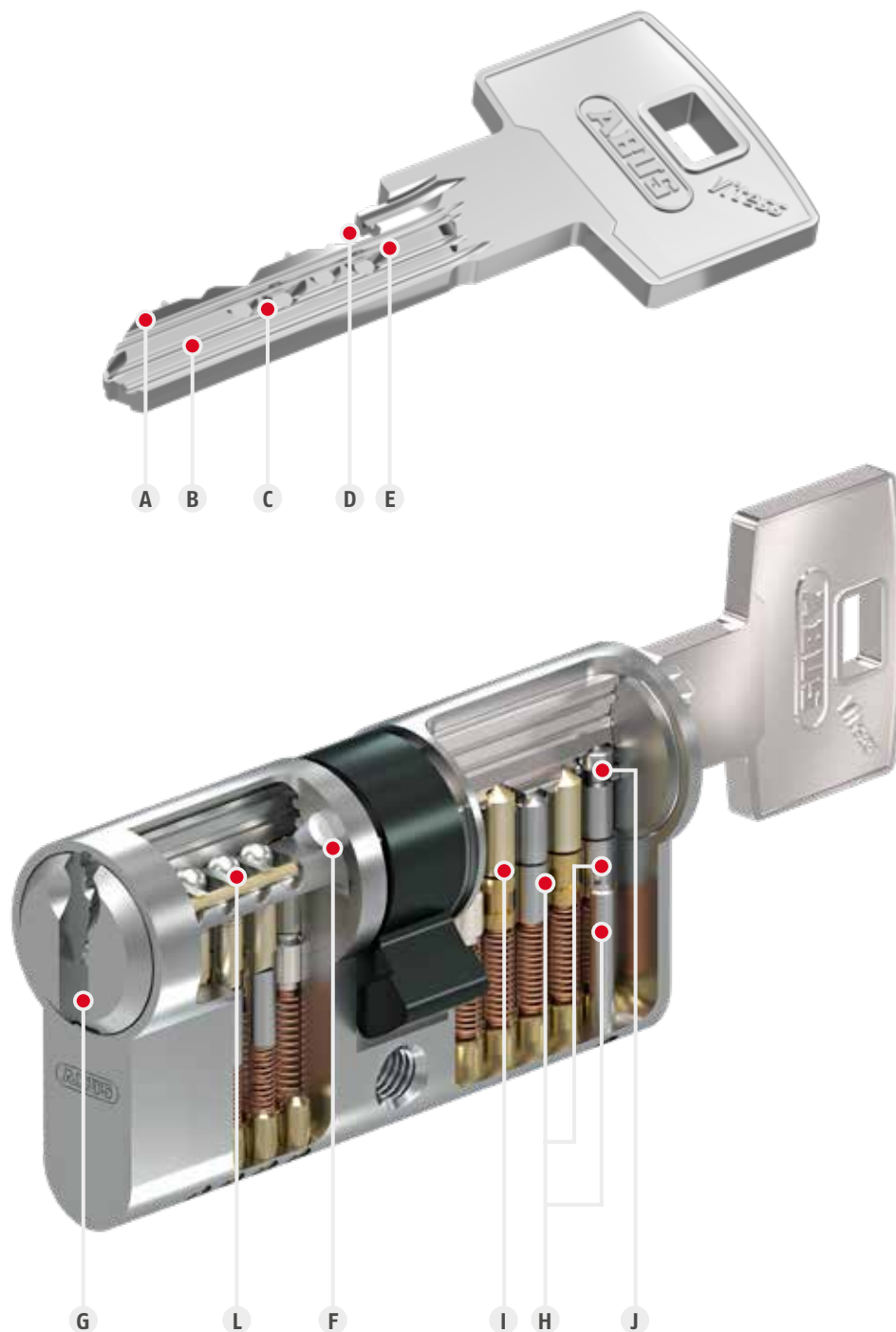
\* Filed, max. patent term 2034



# System Vitess.4000

- A Key codes for first locking row
- B Coded profile rib
- C Dimples for second locking row
- D Intop pin on the key shank
- E Multiple paracentric 3D curved profile

- F Profile control pin
- G Vertical key insertion
- H Drill protection
- I First spring loaded locking row
- J Intop Pin
- L Second spring loaded locking row



# System Vitess.2000

Simply secure



## Technical details

- Second level of system Vitess
- Intop System for high technical copy protection
- Patent protection\*, unlimited trademark
- 6-pin system
- 6 spring loaded locking elements
- Up to 4 coding pins in the second locking row
- Coded profile rib with profile control pin
- High precision curved profile
- Options: different types of cams, couplings and special features available
- Cylinders optionally available in modular format
- 14 mm core diameter



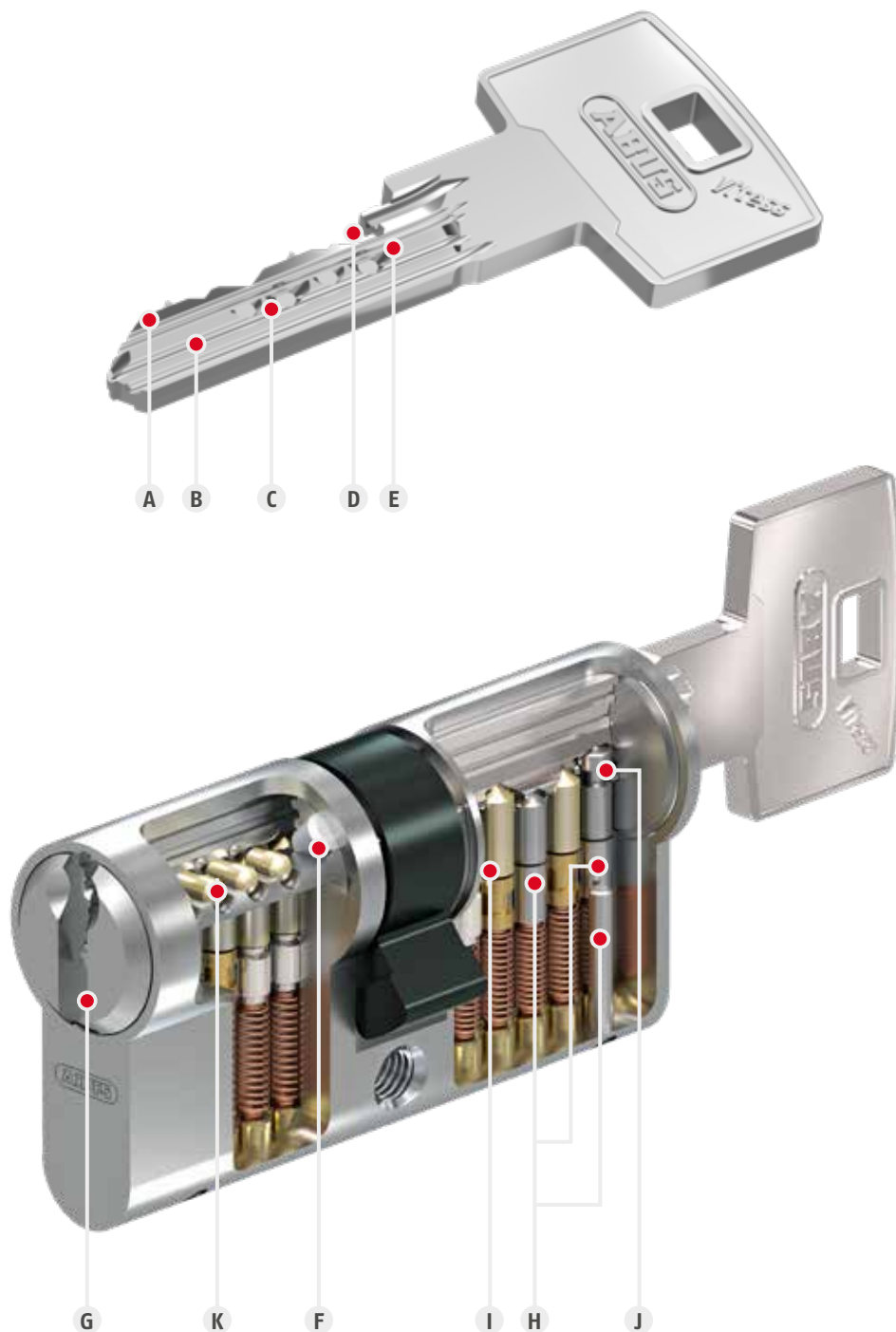
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\* Filed, max. patent term 2034

# System Vitess.2000

- A** Key codes for first locking row
- B** Coded profile rib
- C** Dimples for second locking row
- D** Intop pin on the key shank
- E** Multiple paracentric 3D curved profile
- F** Profile control pin
- G** Vertical key insertion
- H** Drill protection
- I** First spring loaded locking row
- J** Intop Pin
- K** Second locking row



# System Vitess.1000

Simply secure



## Technical details

- First level of system Vitess
- Intop System for high technical copy protection
- Patent protection\*, unlimited trademark
- 6-pin system
- 6 spring-loaded locking elements
- Coded profile rib with profile control pin
- High precision curved profile
- Options: different types of cams, couplings and special features available
- Cylinders optionally available in modular format
- 14 mm core diameter



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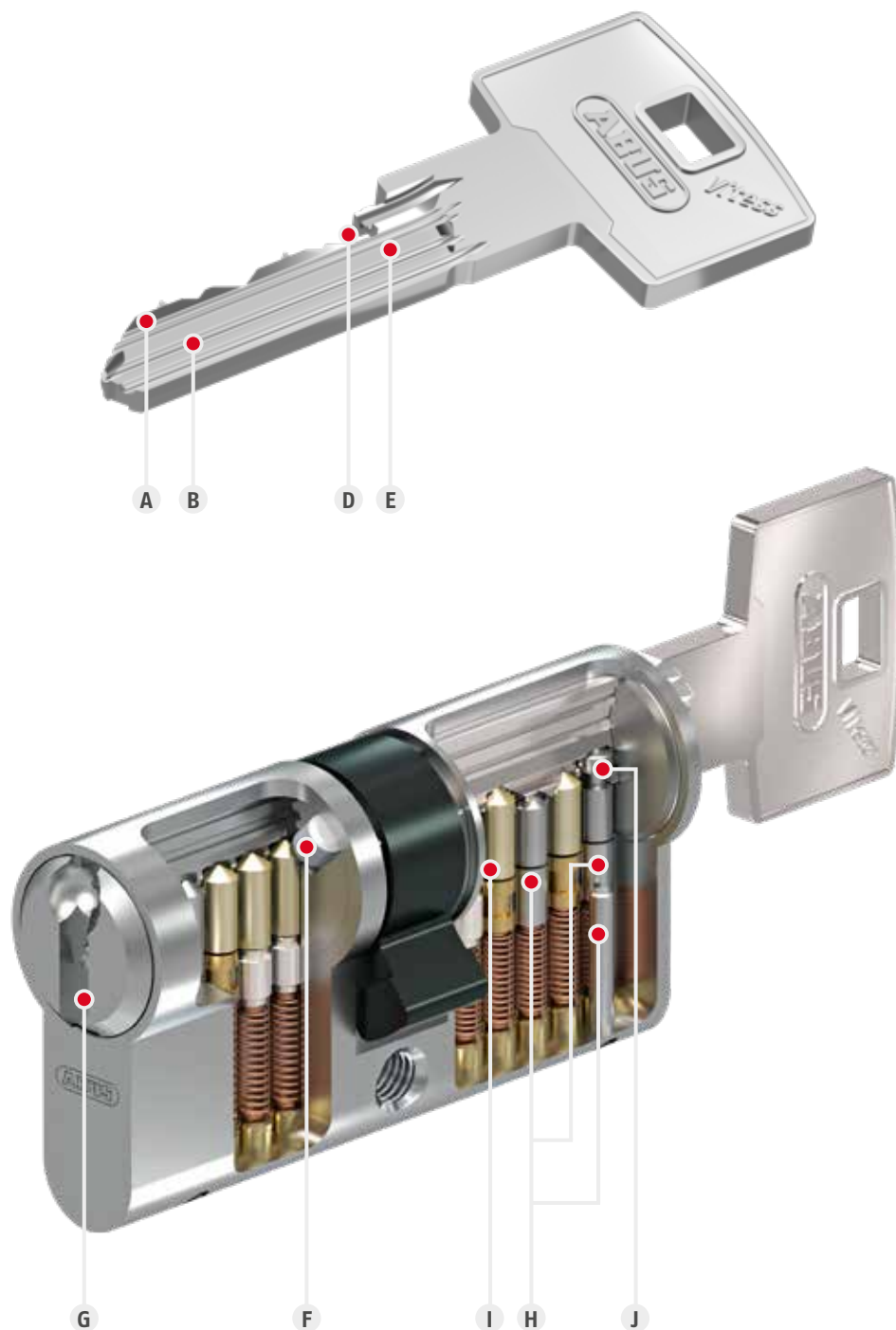
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\* Filed, max. patent term 2034



# System Vitess.1000

- A Key codes for first locking row
- B Coded profile rib
- D Intop pin on the key shank
- E Multiple paracentric 3D curved profile
- F Profile control pin
- G Vertical key insertion
- H Drill protection
- I First spring loaded locking row
- J Intop Pin



# System Zolit

## Safe all-rounder



Zolit

### Highlights

- Protection against manipulation of the cylinder and illegal key copies
- Patent until 2034\* and unlimited trademark protection
- Vertical key insertion
- Drilling protection as standard
- Thanks to a variety of cylinder types and special features, it is perfect for meeting building-specific requirements
- Ideal basic security with a superb price-performance ratio
- Economical solution by creating a single locking system within one building

Facts	Zolit.1000	Zolit.2000	Zolit.4000
1st locking row (spring loaded)	✓	✓	✓
2nd locking row		✓	
2nd locking row (spring loaded)			✓
Compatibility	2000 or 4000	1000	1000

\* Filed, max. patent term 2034

# System Zolit.4000

## Safe all-rounder



### Technical details

- Third level of system
- Technical copy protection by Intop system
- Patent protection\*, unlimited trademark
- 6-pin system
- 6 spring loaded locking elements in the first locking row and up to 4 spring loaded coding pins in the second locking row
- Options: different types of cams, couplings and special features available
- 14 mm core diameter

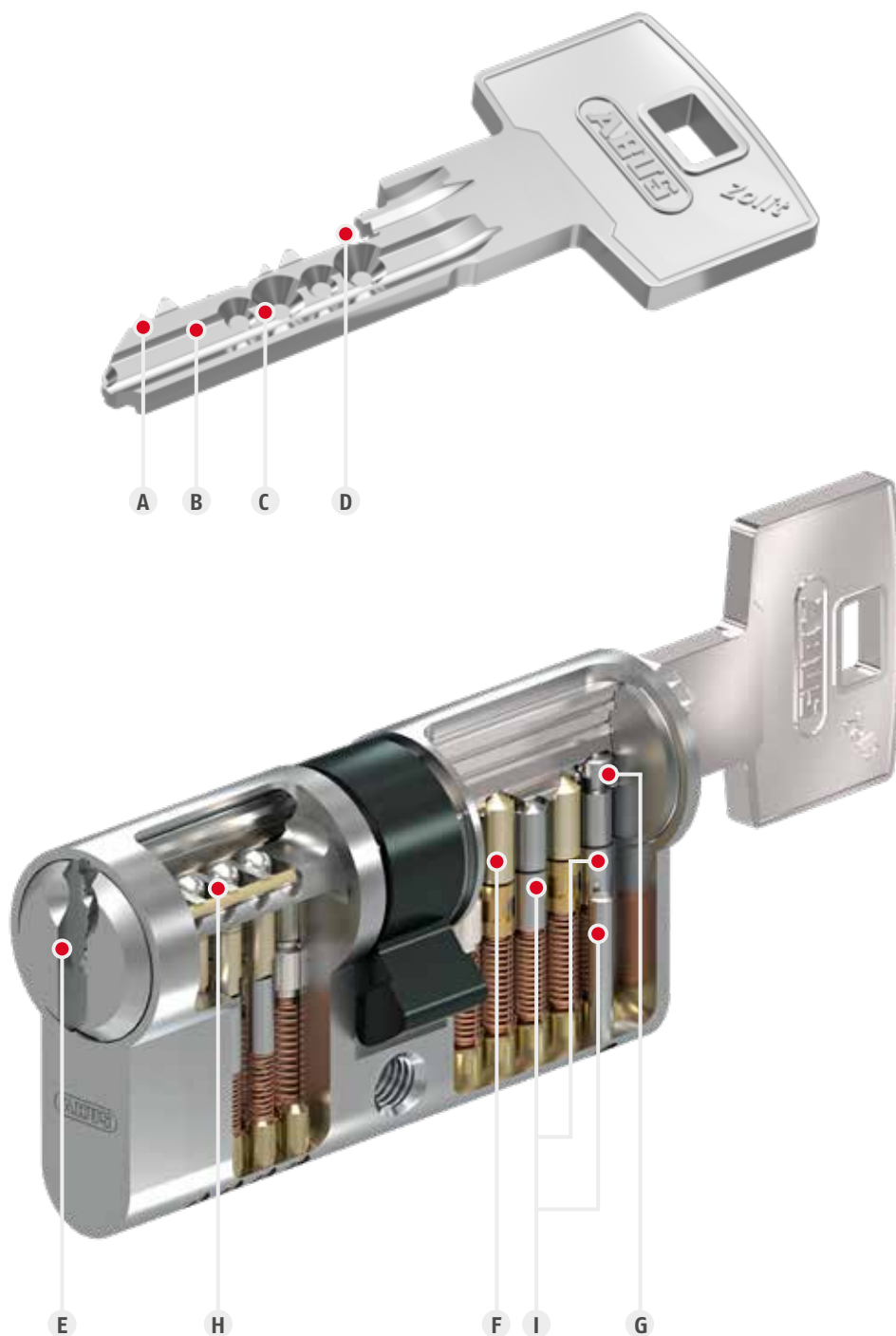


\* Filed, max. patent term 2034

# System Zolit.4000

- A Key coding for the first locking row
- B Paracentric precision profile
- C Dimples for second locking row
- D Intop system on the key shank

- E Vertical key insertion
- F First spring loaded locking row
- G Intop system in the cylinder
- H Second spring loaded locking row
- I Drill protection



Zolit



# System Zolit.2000

## Safe all-rounder



### Technical details

- Second level of system Zolit
- Technical copy protection by Intop system
- Patent protection\*, unlimited trademark
- 6-pin system
- 6 spring loaded locking elements in the first locking row and up to 4 coding pins in the second row
- Options: different types of cams, couplings and special features available
- Cylinders optionally available in modular format
- 14 mm core diameter



DIN EN  
1303

DIN  
18252

\* Filed, max. patent term 2034

# System Zolit.2000

- A Key coding for the first locking row
- B Paracentric precision profile
- C Dimples for second locking row
- D Intop system on the key shank
- E Vertical key insertion
- F First spring loaded locking row
- G Intop system in the cylinder
- H Second locking row
- I Drill protection



# System Zolit.1000

## Safe all-rounder



### Technical details

- First level of system
- Technical copy protection by Intop system
- Patent protection\*, unlimited trademark
- 6-pin system
- 6 spring loaded locking elements in one locking row
- Options: different types of cams, couplings and special features available
- Cylinders optionally available in modular format
- 14 mm core diameter



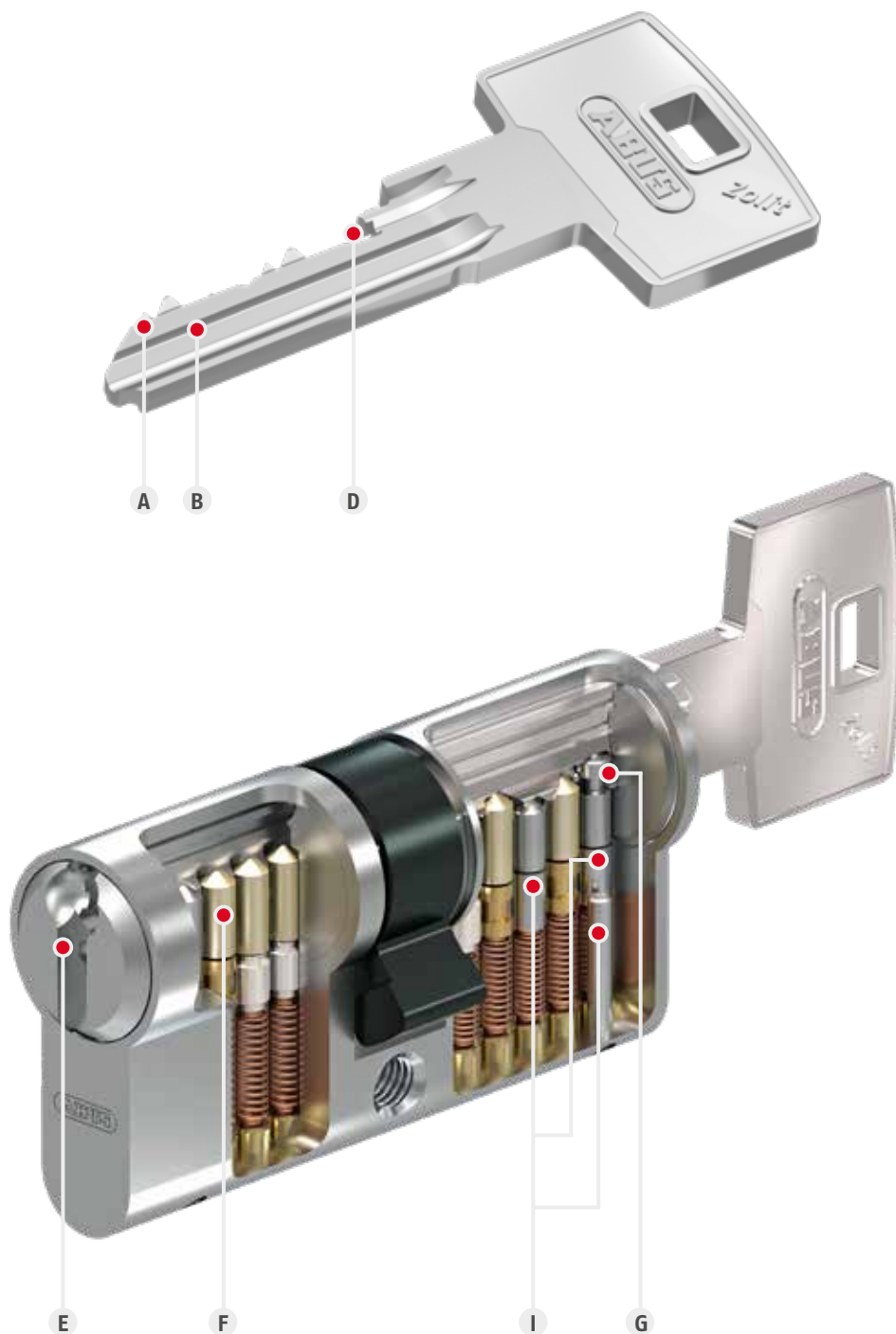
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\* Filed, max. patent term 2034

# System Zolit.1000

- A Key coding for the first locking row
- B Paracentric precision profile
- D Intop system on the key shank
- E Vertical key insertion
- F First spring loaded locking row
- G Intop system in the cylinder
- I Drill protection



Zolit



## Locking system S60+



S60+ | S6+  
+9S | +09S

### Highlights

- Conventional 6-pin locking system
- Key in nickel-silver
- Vertical key insertion
- Drilling protection as standard

## System S60+



### Technical details

- Conventional 6-pin locking system
- Vertical key insertion
- Standard drill protection
- Key in nickel-silver
- 14 mm core diameter
- Options: different types of cams, couplings and special features available



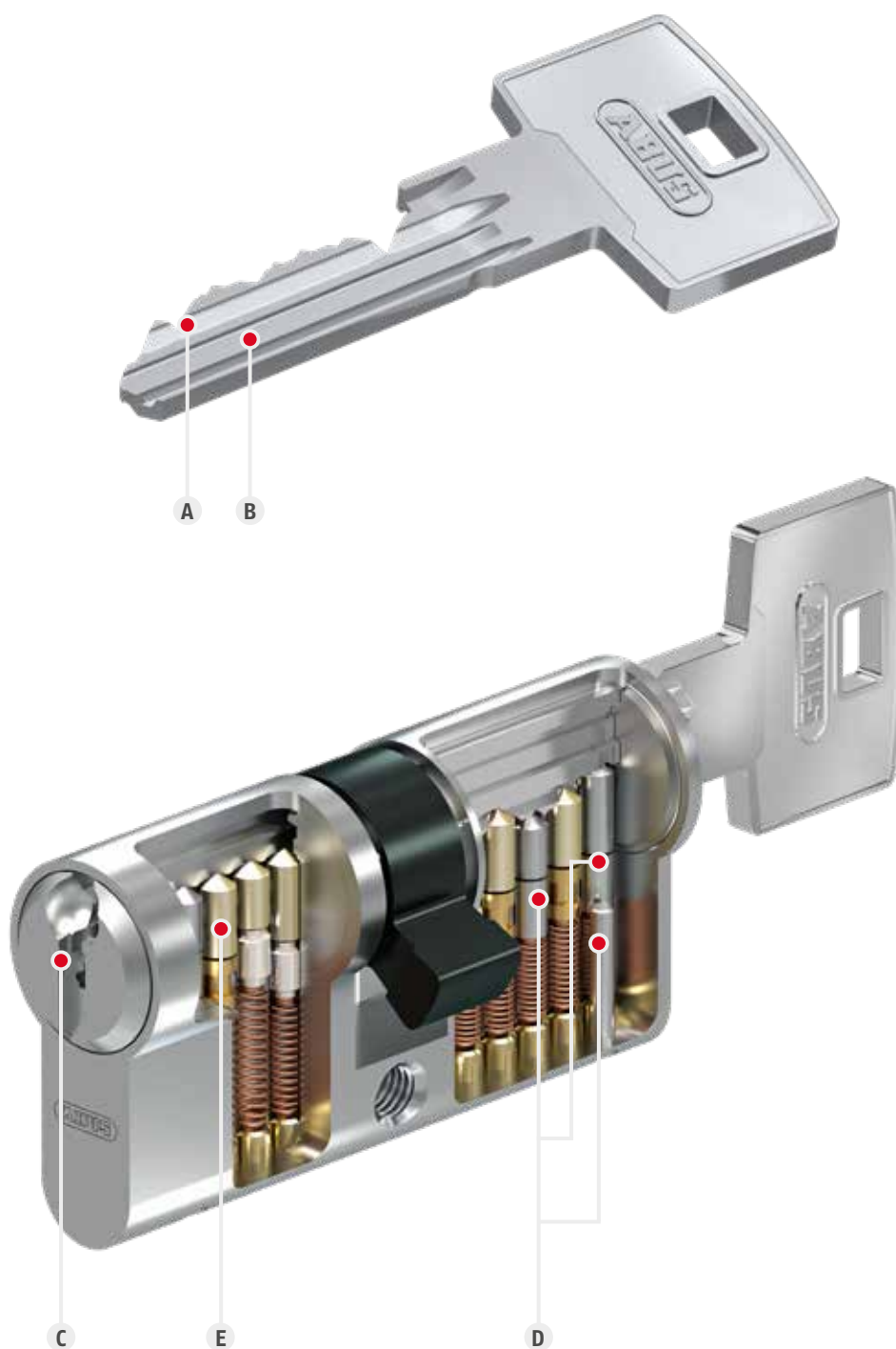
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# System S60+

- A Key coding for the locking row
- B Multiple paracentric reversible profile

- C Vertical key insertion
- D Drill protection
- E Spring loaded locking row



## Locking system S6+



S60+ | S6+

### Highlights

- Conventional 6-pin locking system
- Key in nickel-plated brass
- Vertical key insertion
- Drilling protection as standard

## System S6+



### Technical details

- Conventional 6-pin locking system
- Vertical key insertion
- Standard drill protection
- Key in nickel-plated brass
- 14 mm core diameter
- Options: different types of cams, couplings and special features available



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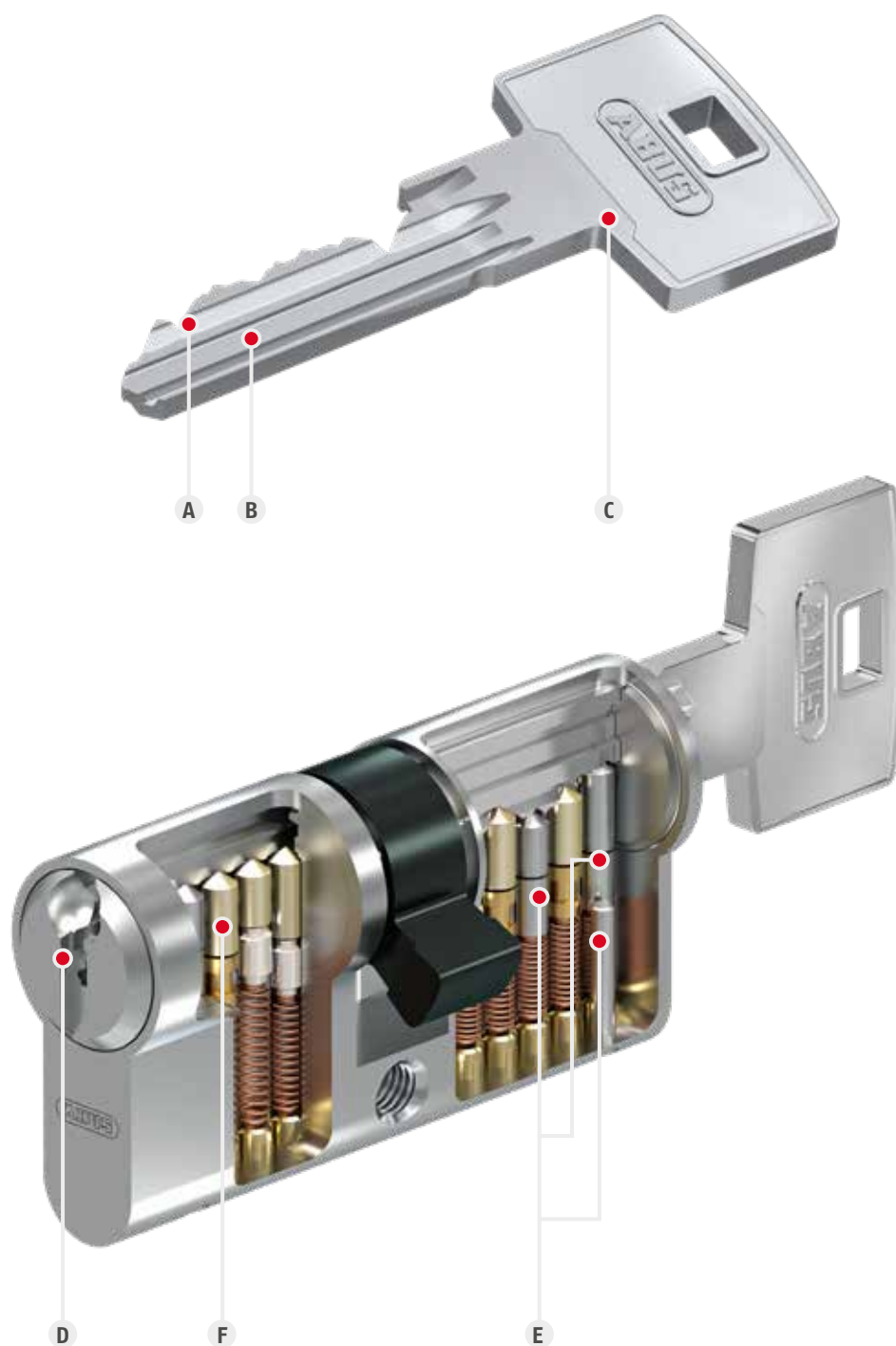
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# System S6+

- A Key coding for the locking row
- B Multiple paracentric reversible profile
- C Key in nickel-plated brass

- G Vertical key insertion
- H Drill protection
- I Spring loaded locking row



## Locking system S50+



S50+ | S5+

### Highlights

- Conventional 5-pin locking system
- Key in nickel-silver
- Vertical key insertion
- Drilling protection as standard

## System S50+



### Technical details

- Conventional 5-pin locking system
- Vertical key insertion
- Standard drill protection
- Key in nickel-silver
- 14 mm core diameter
- Options: different types of cams, couplings and special features available



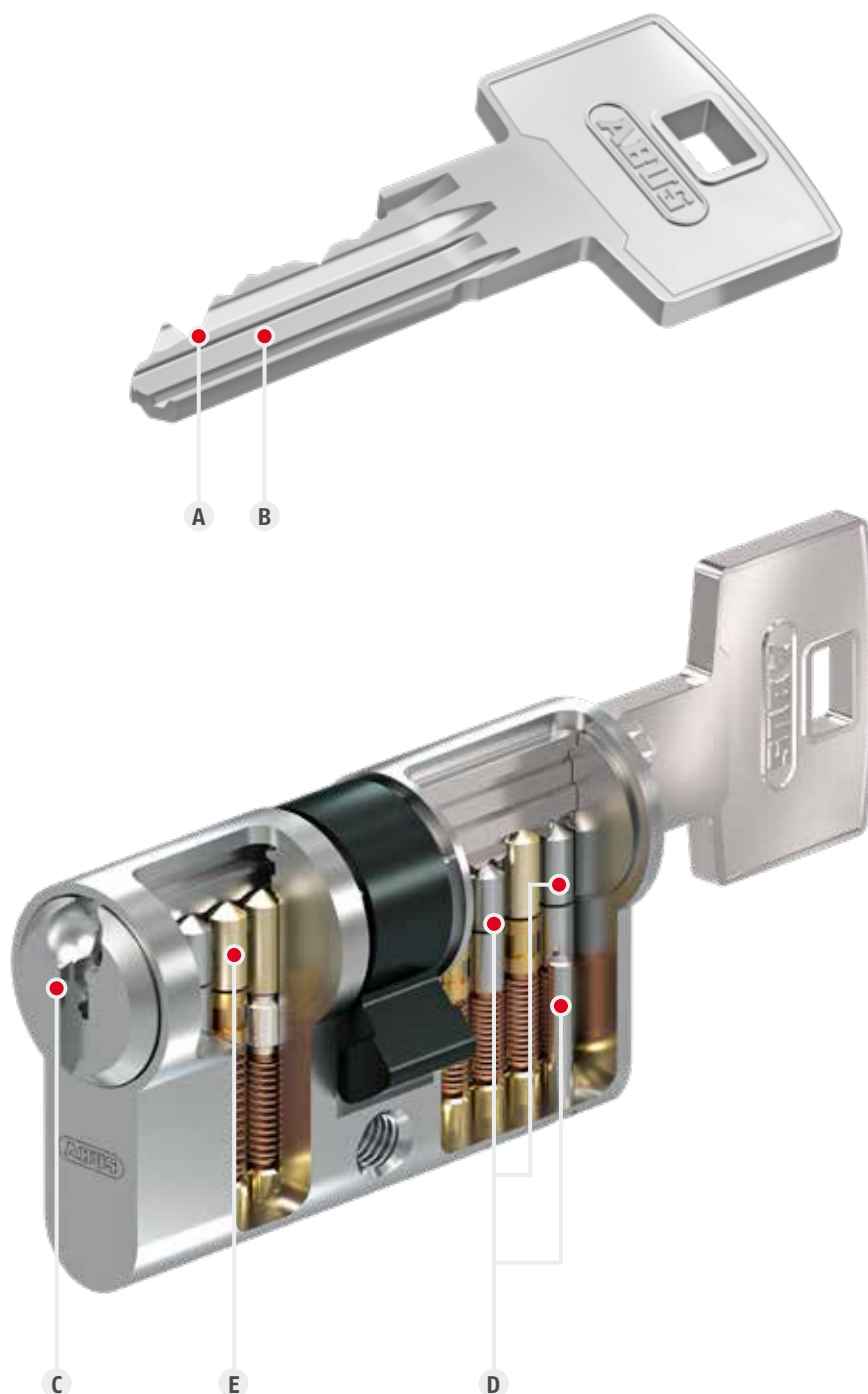
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# System S50+

- A Key coding for the locking row
- B Multiple paracentric reversible profile

- C Vertical key insertion
- D Standard drill protection
- E Spring loaded locking row



## Locking system S5+



S50+ | S5+

### Highlights

- Conventional 5-pin locking system
- Key in nickel-plated brass
- Vertical key insertion
- Drilling protection as standard



## System S5+



### Technical details

- Conventional 5-pin locking system
- Vertical key insertion
- Standard drill protection
- Key in nickel-plated brass
- 14 mm core diameter
- Options: different types of cams, couplings and special features available

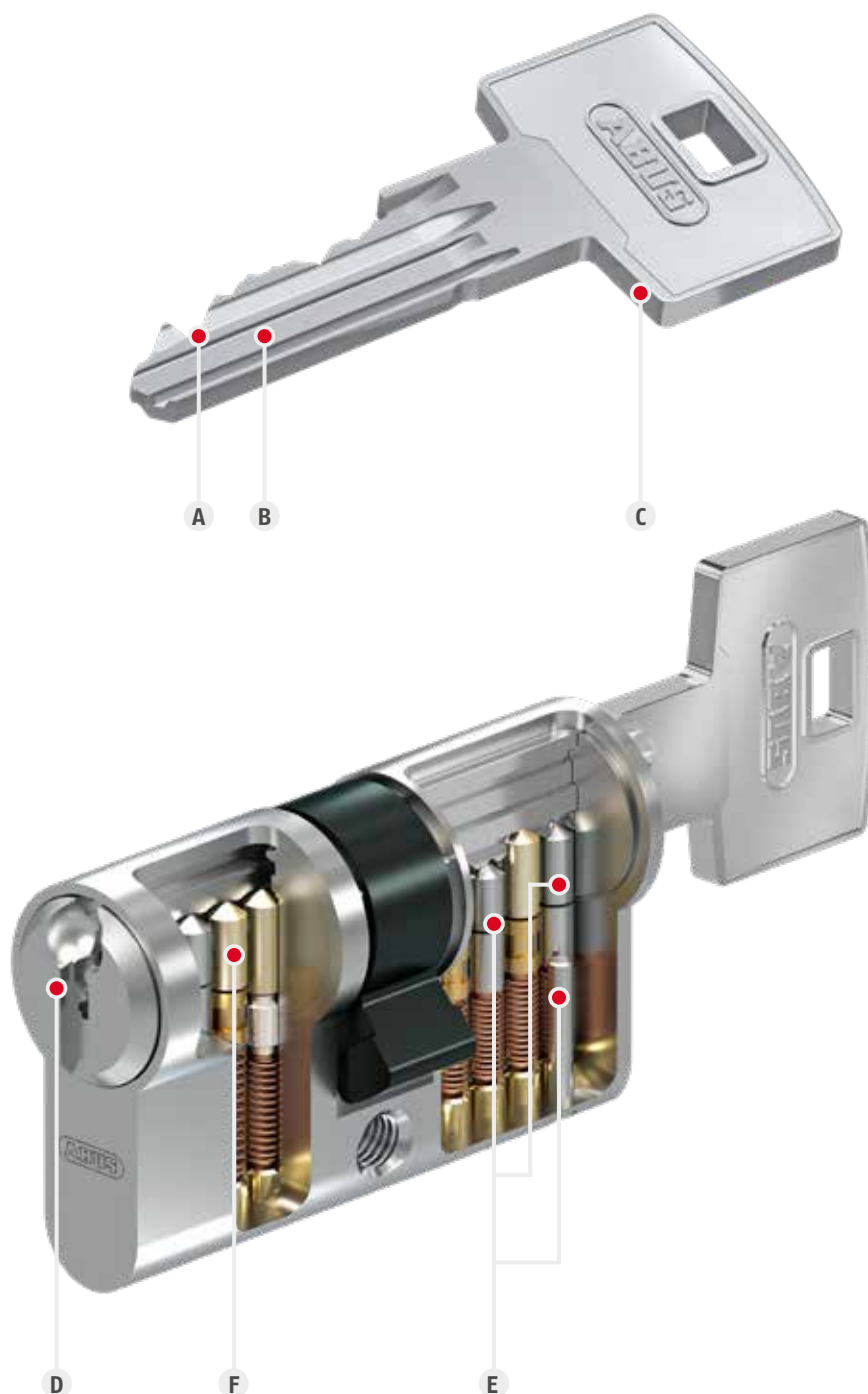


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# System S5+

- A Key coding for the locking row
- B Multiple paracentric reversible profile
- C Key in nickel-plated brass
- D Vertical key insertion
- E Standard drill protection
- F Spring loaded locking row



# Modular MX system options

Secure, simple, quick. MX



## Technical details

- Available as double cylinder and knob cylinder up to 200 mm length in total
- Available as half cylinder up to 160/10 mm
- Standard finish nickel, other finishings available



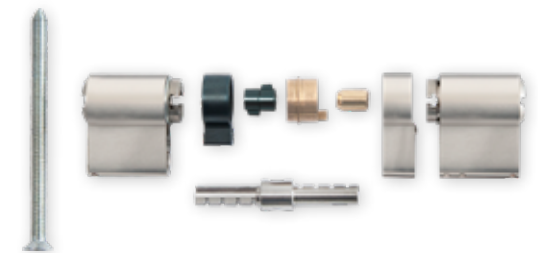
## Highlights

- React quickly to building features
- Future-proof investment:
  - stay flexible with modular and re-fit your cylinder's length within seconds
- Conversion to other lengths in just a few steps and without additional tools
- Increased anti-pull protection as standard thanks to the modular threaded bore hole made of stainless steel
- Increased protection against drilling as standard thanks to hardened steel pins and a stainless steel anti-drill inlay
- Modular can be conveniently supplied in different formats:
  - As keyed-alike sets, where you just set the length of the cylinder
  - As fully finished cylinders, ordered to length
  - As service cylinders that you can pin yourself
- Available in factory profile or individual profile
- Can be used in master-keyed suites

## Modular has never been this easy!



Insert the fixing screw, turn 90° to release both ends of the cylinder and disassemble the module, cam and coupling for later use.



Extend the cylinder to the desired length using the housing, core and key extension sets.



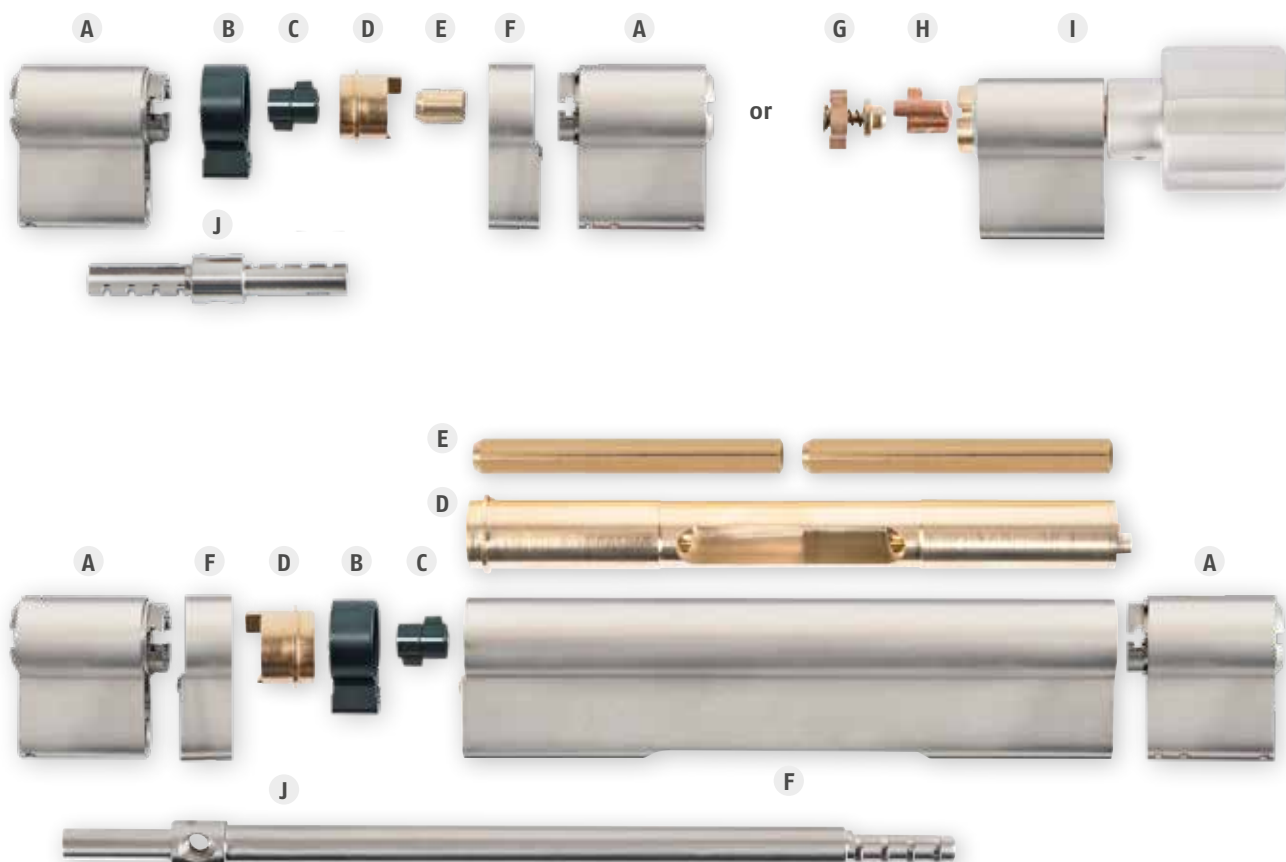
Re-insert coupling, cam and extended module and then turn fixing screw back 90° to its original position to fix the cylinder. Done!

Modular  
design MX

# MX

# Modular MX system options

## Double and knob cylinders



## Half cylinders



- A** Modular cylinder unit
- B** Cam
- C** Coupling
- D** Core extension
- E** Key extension

- F** Housing extension
- G** Coupling for knob cylinder
- H** Knob shaft follower
- I** Modular cylinder unit with knob
- J** Module web

- K** Pressure piece
- L** Housing closure
- M** Forend screw



## System Integral

### High security system with reversible key



#### Technical details

- 5 or 6 pin system
- Highest picking protection by up to 16 active locking elements on three planes of angles
- Comfortable and stable reversible key with increased key cross-section
- Standard drill protection - pins made of hardened steel and anti-drilling bridge
- 14 mm core diameter for more variety in locking systems

## System Wavy Line pro

### Reversible key system with blocking ball and waved code line



#### Technical details

- The first row of pins is activated by a 6-fold coded wavy line
- Additional lateral dimples in the second row of pins
- Comfortable, stable reversible key with waved code line
- Key copy protection with 3D profile rib and blocking ball bearing
- Extra picking protection as standard
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System Wavy Line

### Reversible key system with waved code line



#### Technical details

- First spring loaded locking row with 6 locking elements
- Second locking row with up to 4 locking elements
- Comfortable, stable reversible key with waved code line
- Extra picking protection as standard
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System Y14 Deltus

### Curved profile with Intellitec System



#### Technical details

- Can be combined with XY14 Deltus
- System 5- or 6-stiftig
- Spring loaded locking row with 5 or 6 locking elements
- Intellitec System
- Multiple paracentric curved profile
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System XY14 Deltus

### Curved profile with Intellitec System



#### Technical details

- Can be combined with Y14 Deltus
- System 5- or 6-stiftig
- First spring loaded locking row with 5 or 6 locking elements
- Second locking row with up to 4 locking elements
- Intellitec System
- Multiple paracentric curved profile
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System Y14

### Curved profile with interior key stopper



#### Technical details

- Can be combined with XY14
- 5 or 6 pin system
- Spring loaded locking row with 5 or 6 locking elements
- High technical copy protection by curved profile and inner key stop
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System XY14

### Curved profile with interior key stopper



#### Technical details

- Can be combined with system Y14
- 5 or 6 pin system
- First spring loaded locking row with 5 or 6 locking elements
- Second locking row with up to 4 locking elements
- High technical copy protection by curved profile and inner key stop
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System Z14

### Precision profile with inner key stop



#### Technical details

- Can be combined with XZ14
- 5 or 6 pin system
- Spring loaded locking row with 5 or 6 locking elements
- High key stability by increased key cross section
- Inner key stop
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System XZ14

### Precision profile with inner key stop



#### Technical details

- Can be combined with Z14
- 5 or 6 pin system
- First spring loaded locking row with 5 or 6 locking elements
- Second locking row with up to 4 locking elements
- High key stability by increased key cross section
- Inner key stop
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System V14

All-rounder with a high picking protection



### Technical details

- Can be combined with XV14 or KV14
- 5 or 6 pin system
- Spring loaded locking row with 5 or 6 locking elements
- Coded profile rib with blocking ball
- High picking protection and key stability thanks to the 3D curved profile
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System XV14

All-rounder with a high picking protection



### Technical details

- Can be combined with V14
- 5 or 6 pin system
- First spring loaded locking row with 5 or 6 locking elements
- Second locking row with up to 5 locking elements
- High picking protection and key stability thanks to the 3D curved profile
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System KV14

All-rounder with a high picking protection



### Technical details

- Can be combined with V14
- 5 or 6 pin system
- First spring loaded locking row with 5 or 6 locking elements
- Second spring loaded locking row with up to 5 locking elements
- High picking protection and key stability thanks to the 3D curved profile
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems



## System W14

### Reversible key system



#### Technical details

- Can be combined with systems XW14 or KW14
- 5 or 6 pin system
- Spring loaded locking row with 5 or 6 locking elements
- Multiple paracentric profile
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System XW14

### Reversible key system



#### Technical details

- Can be combined with system W14
- 5 or 6 pin system
- First spring loaded locking row with 5 or 6 locking elements
- Second locking row with up to 5 locking elements
- Multiple paracentric profile
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System KW14

### Reversible key system



#### Technical details

- Can be combined with W14
- 5 or 6 pin system
- First spring loaded locking row with 5 or 6 locking elements
- Second spring loaded locking row with up to 5 locking elements
- Multiple paracentric profile
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System Standard

### Multiple paracentric profile system for a reliable protection



#### Technical details

- Can be combined with systems X14 or K14
- 5 or 6 pin system
- 5 or 6 spring loaded locking elements
- Multiple paracentric profile
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System X14

### Multiple paracentric profile system for a reliable protection



#### Technical details

- Can be combined with system Standard
- 5 or 6 pin system
- First spring loaded locking row with 5 or 6 locking elements
- Second locking row with up to 5 locking elements
- Multiple paracentric profile
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

## System K14

### Multiple paracentric profile system for a reliable protection



#### Technical details

- Can be combined with system Standard
- 5 or 6 pin system
- First spring loaded locking row with 5 or 6 locking element
- Second spring loaded locking row with up to 5 locking elements
- Multiple paracentric profile
- Standard drill protection - pins made of hardened steel
- 14 mm core diameter for more variety in locking systems

# Cylinder series technical information



**We provide customised solutions to meet any requirement, from family homes to building complexes. In a master key system, different cylinder types and designs can be combined, and opened with a single key. Select the right cylinder design for you from our wide range of products:**

- Euro profile cylinders in a compact, modular design
- Cam and screw in cylinders
- Rim cylinders
- Padlocks
- Lift and switch cylinders
- Oval cylinders
- Special cylinders
- Pressure cylinders
- Furniture cylinders

**You can also equip your cylinder with various special features to meet your specific requirements. For example:**

- Different lengths
- Different free-wheel functions
- Separate rotation locking system
- Duplicate key system
- Anti-drill protection
- Anti-shatter protection
- Seawater resistance
- Different cylinder colours
- Different certifications
- Different locking cam designs
- Different door knob designs and colours
- Cam and rim cylinder roses
- Different cam designs for cam cylinders
- Different locking bolts for screw cylinders
- Different connecting bars

**Further details can be found in the section "Special features and accessories".**

# Cylinder assortment specifications

## Euro profile cylinder

### Profile double cylinder | Cylinder type 310 / 410

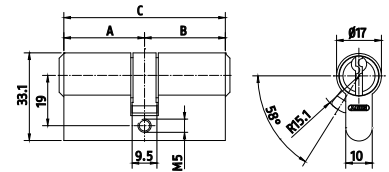


**Specification:**

- Basic length cylinder (size C):  
5 pins – 53 mm, 6 pins – 61 mm

**Options:**

- Different kinds of cams, couplings and special features available



### Profile double cylinder as short version "-KV" | Cylinder type 410-KV

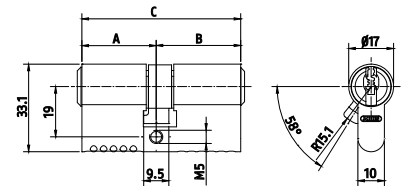


**Specification:**

- Basic length cylinder (size C):  
6 pins – 61 mm
- Left size always 28,5 mm,  
right size 32,5 mm

**Options:**

- Right size 37,5 ; 42,5 or 47,5 mm;  
other lengths on request



### Profile double cylinder as extra short length "-SL" | Cylinder type 310-SL / 410-SL



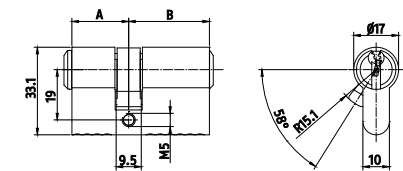
**Specification:**

- Special length (Size A): 5 pins – 21,5 mm  
(1st locking element is dropped)
- Special length (Size A): 6 pins – 21,5 mm  
(1st and 2nd locking elements are dropped) or 26,5 mm (1st locking element is dropped)

- The key sticks out of the profile channel

**Options:**

- other lengths on request



### Profile knob cylinder | Cylinder type 330 / 430

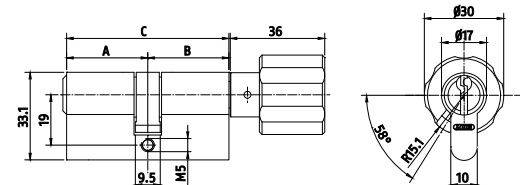


**Specification:**

- Basic length cylinder (size C):  
5 pins – 53 mm, 6 pins – 61 mm
- Standard knob: Form Z, Nickel Pearl

**Options:**

- Different cams, coupling functions, for example with anti-barricade (key has priority) and special features available



### Profile knob cylinder as short version "-KV" | Cylinder type 430-KV

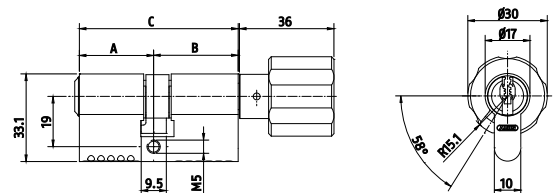


**Specification:**

- Left size always 28,5 mm,  
right size 32,5 mm
- Standard knob: Form Z, Nickel Pearl

**Options:**

- Right size 37,5; 42,5 or 47,5 mm;  
other lengths on request



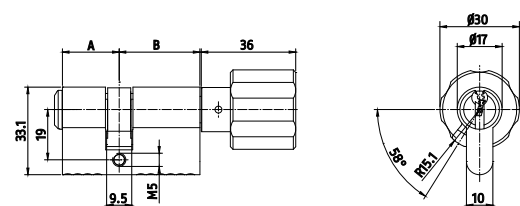
### Profile knob cylinder as extra short length "-SL" | Cylinder type 330-SL / 430-SL



**Specification:**

- Special length (size A): 5 pins – 21,5 mm  
(1st locking element is dropped)
- Special length (size A): 6 pins – 21,5 mm  
(1st and 2nd locking elements are dropped) or 26,5 mm (1st locking element is dropped)

- Knob only available on side B
- The key sticks out of the profile channel
- Standard knob: Form Z, Nickel Pearl



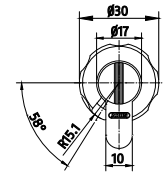
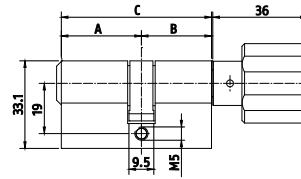
# Cylinder assortment specifications

## Profile knob bathroom cylinder indicating "Engaged" | Cylinder type 391-11 / 491-11



### Specification:

- Basic length cylinder (size C):  
5 pins – 53 mm, 6 pins – 61 mm
- Standard knob: Form Z, Nickel Pearl
- free 360° turning

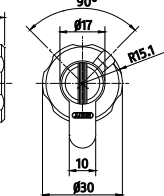
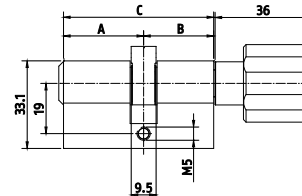


## Profile knob bathroom cylinder indicating "Engaged" | Cylinder type 397 / 497



### Specification:

- Basic length cylinder (size C):  
5 pins – 53 mm, 6 pins – 61 mm
- Standard knob: Form Z, Nickel Pearl
- Limited turning movement 90°
- To install the cylinder, a needle can be used to temporarily disengage the 90° turning limit

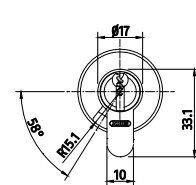
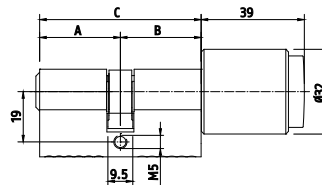


## Profile cylinder with pressure knob | Cylinder type 330-DK / 430-DK



### Specification:

- Basic length cylinder (size C):  
5 pins – 53 mm, 6 pins – 61 mm
- Exterior diameter of the knob, without grip: 32 mm
- Cam can only be turned when button is pressed and held

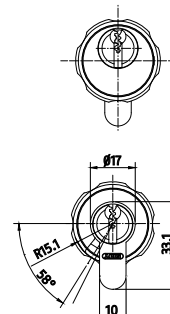
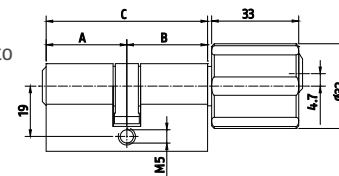


## Profile knob cylinder with lockable knob | Cylinder type 330-AK / 430-AK



### Specification:

- Basic length cylinder (size C):  
5 pins – 53 mm, 6 pins – 61 mm
- Knob with 32 mm exterior diameter and six recessed grooves
- The corresponding key shall be used to activate / deactivate the knob in order to operate the cylinder.

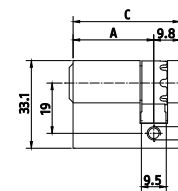


## Half cylinder with 8-fold adjustable cam | Cylinder type 352 / 452



### Specification:

- Basic length cylinder (size C):  
5 pins – 36,3 mm, 6 pins – 40,3 mm
- Cylinders are supplied from the factory with the cam mounted at the 7 o'clock position which can be adjusted to different positions in steps of 45° (8-fold adjustable)

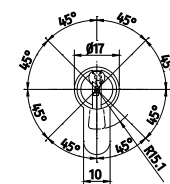
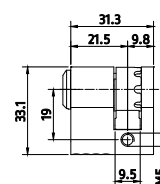


## Profile half cylinder as extra short length "-SL" | Cylinder type 352-SL / 452-SL



### Specification:

- Special length: 5-pins - 21,5 mm (1st locking element is dropped)
- Special length: 6-pins - 21,5 mm (1st and 2nd locking elements are dropped) or 26,5 mm (1st locking element is dropped)
- The key sticks out of the profile channel





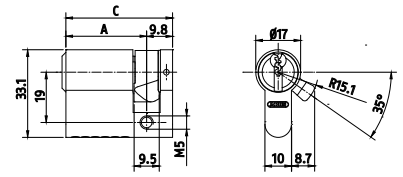
# Cylinder assortment specifications

## Profile half cylinder with automatically lockable cam | Cylinder type 352-FE / 452-FE



### Specification:

- Basic length cylinder (size C):  
5 pins – 36,3 mm, 6 pins – 40,3 mm
- The key is only necessary to unlock and operates the cam
- Locking can be done without key, because of the special shape and suspension of the cam it locks automatically

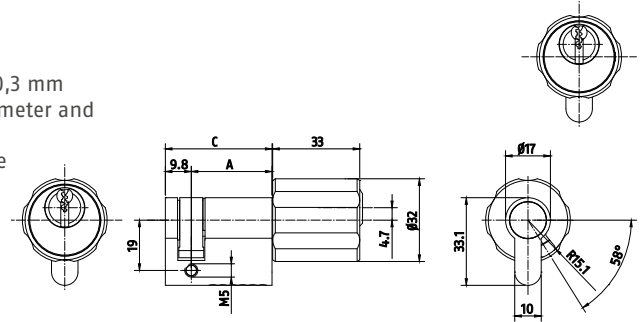


## Profile half cylinder with lockable knob | Cylinder type 350-AK / 450-AK



### Specification:

- Basic length cylinder (size C):  
5 pins – 36,3 mm, 6 pins – 40,3 mm
- Knob with 32 mm exterior diameter and six recessed grooves
- The corresponding key shall be used to activate / deactivate the knob in order to operate the cylinder.



## Profile half cylinder with tail piece | Cylinder type 352-S01 / 452-S01

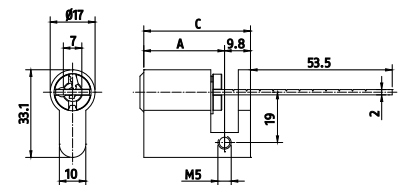


### Specification:

- Basic length cylinder (size C):  
5 pins – 36,3 mm, 6 pins – 40,3 mm
- With tail piece 70 mm

### Options:

- Tail piece 70 mm or 150 mm reinforced
- Tail piece 70 mm, turned by 90°



# Cylinder assortment specifications

## Cam cylinder, Mortice cylinder

### Cam cylinder Ø 18 mm | Cylinder type 356-H18 / 456-H18

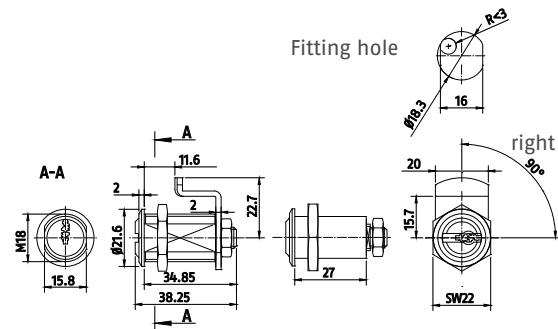


#### Specification:

- Overall length cylinder: 5/6 pins – 34,85 mm
- Locking movement 90° clockwise (adaptable)
- Key only removable in locking position
- Cam is adjustable per 360° in 45° steps

#### Options:

- Locking movement 180° on request
- Rosettes for fitting



### Cam cylinder Ø 24 mm | Cylinder type 356-H24 / 456-H24

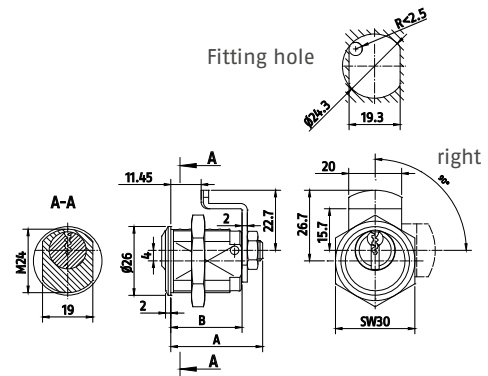


#### Specification:

- Overall length cylinder: 5 pin cylinder – A=31 mm, B=23,2 mm; 6 pin cylinder – A=34,7 mm, B=26,9 mm
- Locking movement 90°, clockwise
- Key only removable in locking position
- Cam is adjustable 360° in 45° steps
- Slight deviations regarding the sizes in systems Bravus and Vela

#### Options:

- Change of direction (90° counterclockwise) possible, please indicate on your order
- Locking movement 180° on request
- Rosettes for fitting



### Cam cylinder Ø 27 mm | Cylinder type 356-H27 / 456-H27

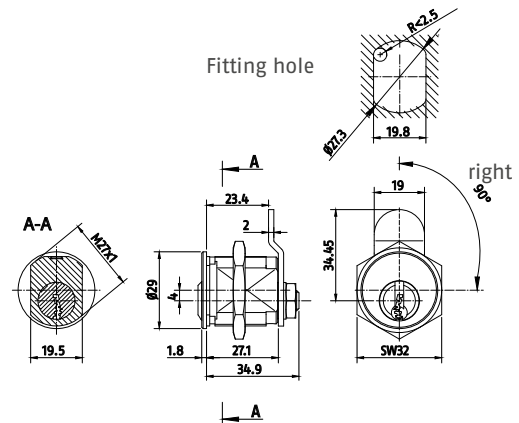


#### Specification:

- Total length cylinder: 34,9 mm
- Locking movement 90°, clockwise
- Key can only be removed in locking position
- Cam is adjustable 360° in 45° steps

#### Options:

- Locking movement 90° in counterclockwise direction or locking movement 180° on demand



# Cylinder assortment specifications

## Mortice cylinder $\varnothing$ 29,2 mm | Cylinder type 356-SR1 / 456-SR1

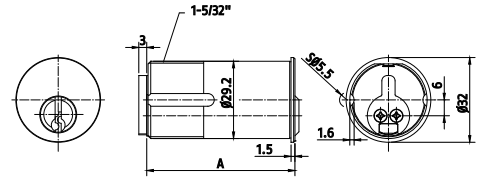


### Specification:

- Standard length (size A):  
5/6 pin cylinders – 30 mm
- With thread  $\varnothing 29,2 \times 1-5/32''$
- Standard cam 50SZU\_SZ07

### Options:

- Further lengths: 35, 42, 50, 58 and 66 mm
- Different cams



## Mortice cylinder with extra wide collar $\varnothing$ 29,2 mm | Cylinder type 356-SR3 / 456-SR3

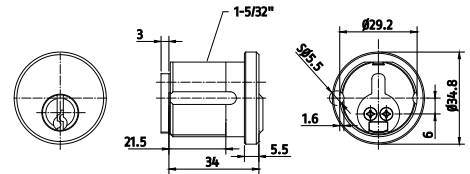


### Specification:

- Housing length: 5/6 pin cylinder – 34 mm
- With thread  $\varnothing 29,2 \times 1-5/32''$
- Standard cam 50SZU\_SZ01

### Options:

- Different cams



## Mortice cylinder with extra wide collar $\varnothing$ 29,2 mm | Cylinder type 356-SR5 / 456-SR5

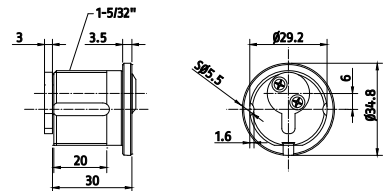


### Specification:

- Housing length: 5/6 pin cylinder 30 mm
- With thread  $\varnothing 29,2 \times 1-5/32''$
- Standard cam 50SZU\_SZ01

### Options:

- Different cams



## Mortice cylinder $\varnothing$ 31 mm | Cylinder type 356-SR2 / 456-SR2

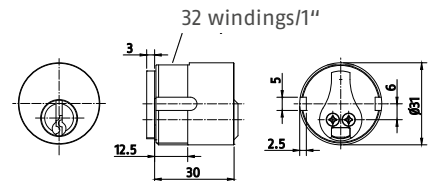


### Specification:

- Housing length 5/6 pin cylinder 30 mm
- With thread  $\varnothing 31 \times 32G/1''$
- Standard cam 50SZU\_SZ02

### Options:

- Different cams



# Cylinder assortment specifications

## Rim cylinder for rim locks

### Rim cylinder Ø 25 mm | Cylinder type 356-25 / 456-25

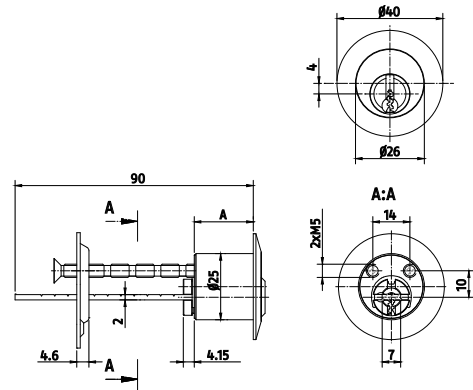


#### Specification:

- Housing length 5-pins - 21 mm, 6-pins - 24,8 mm
- With tail piece 70 mm (can be cut to length)
- With rosette Ø40 mm, fixing plate and two fixing screws M5x60

#### Options:

- Tail piece 70 mm or 150 mm reinforced
- Tail piece 70 mm, turned by 90°



### Rim cylinder Ø 29,6 mm | Cylinder type 356-29,6 / 456-29,6

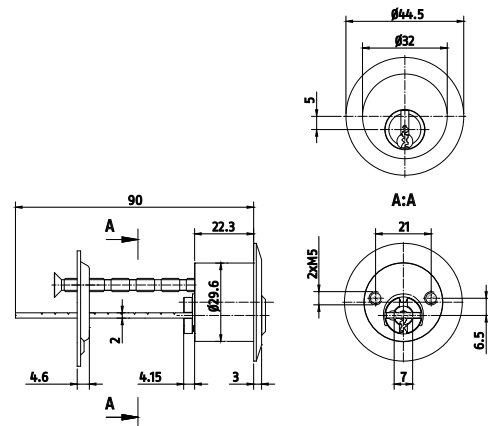


#### Specification:

- Housing length 5-/6-pins - 24,8 mm
- With tail piece 70 mm (can be cut to length)
- With rosette Ø44,5 mm, fixing plate, two fixing screws M5x60, two wooden screws M2, 7x16

#### Options:

- Tail piece 70 mm or 150 mm reinforced
- Tail piece 70 mm, turned by 90°



### Rim cylinder Ø 29,6 mm "Ö" | Cylinder type 356-Ö / 456-Ö



#### Specification:

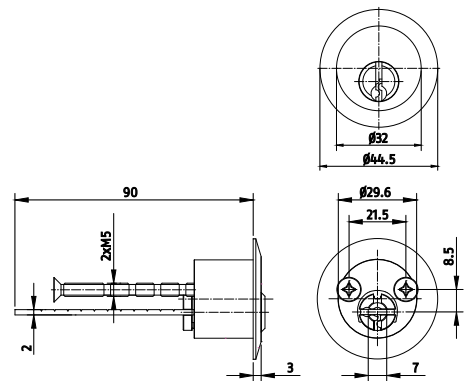
- Housing length 5-/6-pins - 24,8 mm
- With tail piece 70 mm (can be cut to length)
- With rosette Ø 44,5 mm, two fixing screws M5x60

#### Options:

- Tail piece 70 mm or 150 mm reinforced
- Tail piece 70 mm, turned by 90°

Also available as set:

456-Ö + 456-L02 = 456-Ö1



### Rim cylinder Ø 28 mm "CAN" | Cylinder type 356-CAN / 456-CAN

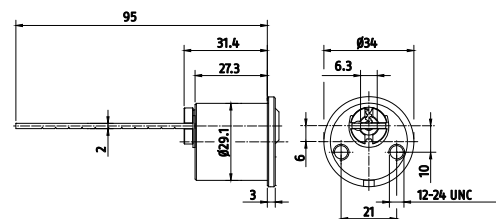


#### Specification:

- Housing length 5-/6-pins - 30,3 mm
- With tail piece 70 mm (can be cut to length)

#### Options:

- Tail piece 70 mm or 150 mm reinforced
- Tail piece 70 mm, turned by 90°



# Cylinder assortment specifications

## Rim cylinder Ø 28 mm "A" for ABUS rim locks series 70XX | Cylinder type 356-A / 456-A



### Specification:

- Suitable for ABUS rim locks No. 2010, 2030, 2110, 2130, 4010, 4030, 7010, 7025, 7030, 7035, 9010 and 9030
- Housing length 5/6-pins – 25,3 mm
- With tail piece 70 mm (can be cut to length)
- With rosette Ø50 mm, fixing plate and two fixing screws M6x80

### Options:

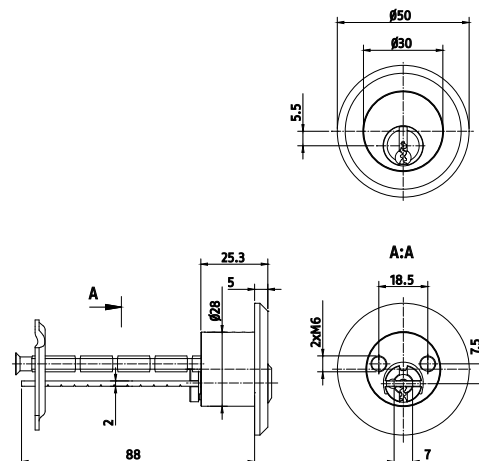
- Tail piece 70 mm or 150 mm reinforced
- Tail piece 70 mm, turned by 90°

Also available as set:

456-A + 456-A01 = 456-A1

456-A + 456-A02 = 456-A2

456-A + 456-A03 = 456-A4



## Rim cylinder Ø 24 mm "A3" for ABUS rim locks series 75XX and 80XX | Cylinder type 356-A3 / 456-A3

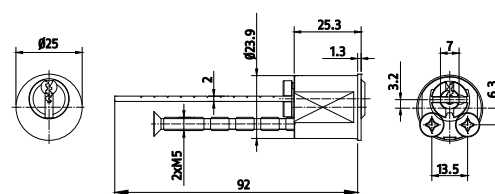


### Specification:

- Suitable for ABUS rim locks No. 8010, 8030, 7510 and 7530
- Total length 5/6 pins - 25,3 mm
- With tail piece 70 mm (can be cut to length)
- No rosette available
- With two fixing screws M5x60

### Options:

- Tail piece 70 mm or 150 mm reinforced
- Tail piece 70 mm, turned by 90°



## Rim cylinder exterior "C01" | Cylinder type 356-C01 / 456-C01



### Specification:

- Suitable for respective CISA rim locks
- With tail piece 70 mm (can be cut to length)
- With tube 44 mm

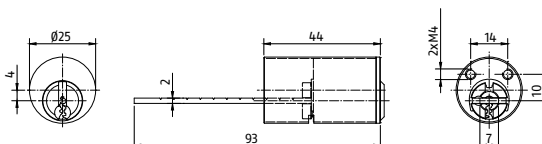
### Options:

- Tail piece 70 mm or 150 mm reinforced
- Tail piece 70 mm, turned by 90°
- Tube available in the lengths 40, 50, 60, 70, 80 and 90 mm

Also available as set:

456-C01 + 456-C02 = 456-C

456-C01 + 456-C03 = 456-C2



## Rim cylinder exterior Ø 29 mm "I1" | Cylinder type 356-I1 / 456-I1



### Specification:

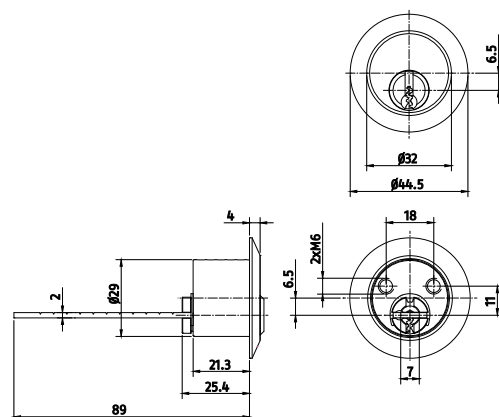
- Suitable for rim locks of IKON - replacement for IKON circular cylinder 5063
- With tail piece 70 mm (can be cut to length)
- With rosette Ø 44,5 mm

### Options:

- Tail piece 70 mm or 150 mm reinforced
- Tail piece 70 mm, turned by 90°

Also available as set:

456-I1 + 456-I2 = 456-I





# Cylinder assortment specifications

## Rim cylinder "L01" | Cylinder type 356-L01 / 456-L01



### Specification:

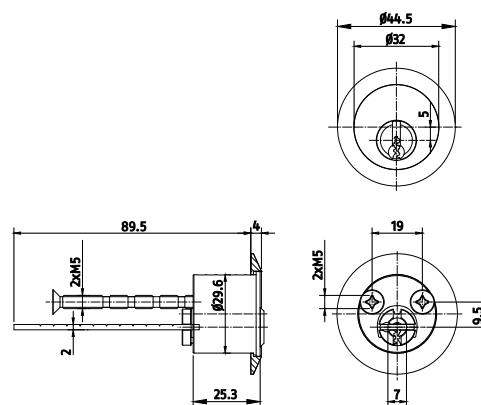
- As exterior cylinder for Lips locks
- Only available with increased drill protection
- With tail piece 70 mm (can be cut to length)

### Options:

- Further tail pieces on demand

Also available as set:

456-L01 + 456-L02 = 456-L



## Rim cylinder "Y01" Ø 28,8 mm | Cylinder type 356-Y01 / 456-Y01

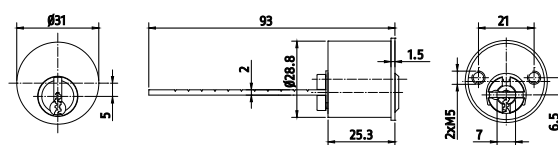


### Specification:

- Suitable for rim locks from Yale as exterior cylinder
- With tail piece 70 mm (can be cut to length)

Also available as set:

456-Y01 + 456-Y02 = 456-Y

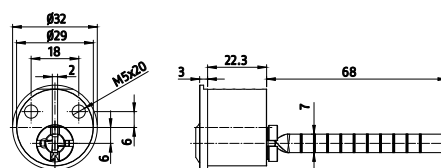


## Rim cylinder Ø 28 mm "E1" | Cylinder type 356-E1 / 456-E1



### Specification:

- As exterior cylinder for EVVA rim locks
- Tail piece 70 mm, turned by 90° (can be cut to length)



# Cylinder assortment specifications

## Interior cylinders for rim locks

### Interior cylinder | Cylinder type 392-A01 - only 5 pin

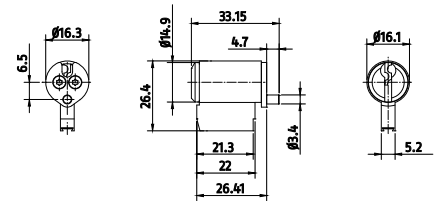


#### Specification:

- Locking insert as interior cylinder for ABUS rim locks no. 4025 and 4035
- Available on request in the 6 pin systems Bravus, Z14, Y14 and Y14 Deltus with only 5 locking elements
- The rim locks have to be custom fitted at the factory (Surcharge)

Also available as set:

356-A + 392-A01 = 356-A1



### Interior cylinder | Cylinder type 392-A02 / 492-A02

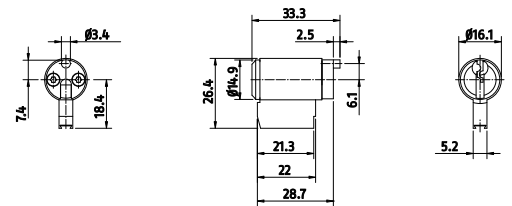


#### Specification:

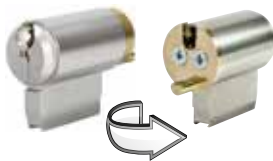
- Locking insert as interior cylinder for ABUS rim locks no. 9025 and 9035
- Available on request in the 6 pin systems Bravus, Z14, Y14 and Y14 Deltus with only 5 locking elements
- The rim locks have to be custom fitted at the factory (Surcharge)

Also available as set:

356-A + 392-A02 = 356-A2



### Interior cylinder | Cylinder type 392-A03 / 492-A03

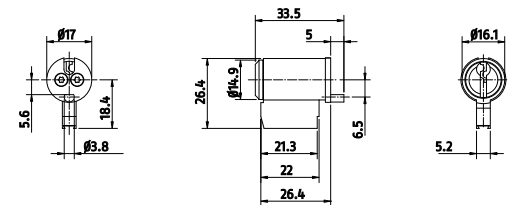


#### Specification:

- Locking insert as interior cylinder for ABUS rim locks no. 7025 and 7035
- Available on request in the 6 pin systems Bravus, Z14, Y14 and Y14 Deltus with only 5 locking elements
- The rim locks have to be custom fitted at the factory (Surcharge)
- For the 7000-series rim locks with plastic housing another tappet is necessary. Please contact us.

Also available as set:

356-A + 392-A03 = 356-A4



### Interior rim cylinder "C02" | Cylinder type 356-C02 / 456-C02

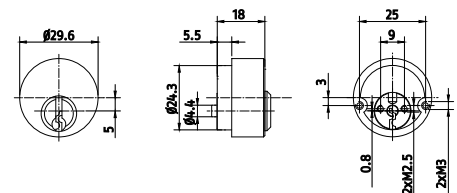


#### Specification:

- Suitable for respective CISA rim locks
- Tappet is not included in delivery
- Restricted use in key systems due to reduced overall length

Also available as set:

456-C01 + 456-C02 = 456-C



### Interior rim cylinder "C03" | Cylinder type 356-C03 / 456-C03

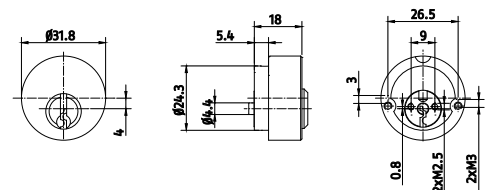


#### Specification:

- Suitable for respective CISA rim locks
- Tappet is not included in delivery
- Restricted use in key systems due to reduced overall length

Also available as set:

456-C01 + 456-C03 = 456-C2



# Cylinder assortment specifications

## Rim cylinder Ø 23 mm "CA1" | Cylinder type 356-CA1 / 456-CA1

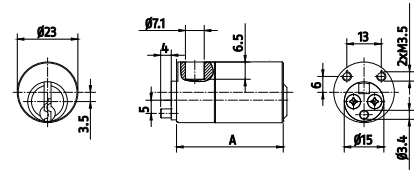


### Specification:

- For respective ABUS locks No. 36961,33404, 53235 and 33398
- Total length 5/6 pins – 30 mm
- Within the Bravus levels, small differences in the dimension possible

### Options:

- Housing available in lengths up to 90 mm in steps of 5 mm
- The systems Wavy Line and Integral are available from a length of 40 mm onwards



## Rim cylinder Ø 23 mm "CA2" | Cylinder type 356-CA2 / 456-CA2

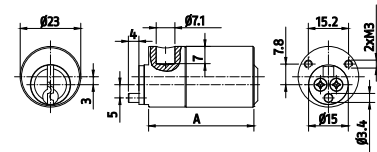


### Specification:

- Suitable for City / Cavers rim locks
- Basic length 5/6 pins – 30 mm
- Within the Bravus levels, small differences in the dimension possible

### Options:

- Housing available in lengths up to 90 mm in steps of 5 mm
- The systems Wavy Line and Integral are available from a length of 40 mm onwards

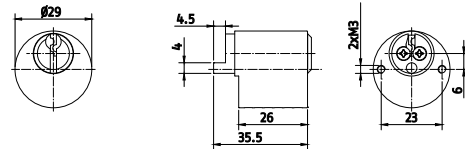


## Interior rim cylinder Ø 29 mm "I2" | Cylinder type 356-I2 / 456-I2



### Specification:

- Suitable for IKON rim locks
- Also available as set:  
456-I1 + 456-I2 = 456-I

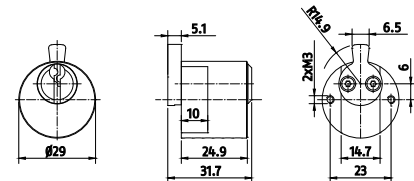


## Rim cylinder Ø 29 mm "I3"ss | Cylinder type 356-I3 / 456-I3



### Specification:

- Suitable for IKON rim locks
- Cam position at 12 o'clock

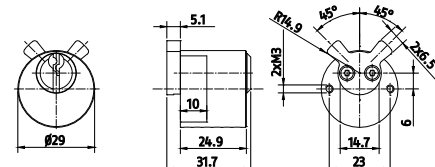


## Interior rim cylinder Ø 29 mm "I4" | Cylinder type 356-I4 / 456-I4



### Specification:

- Suitable for IKON rim locks
- With two cams which are arranged in an angle of each 45°, starting at 12 o'clock

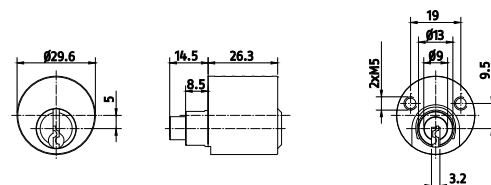


## Rim cylinder "L02" | Cylinder type 356-L02 / 456-L02



### Specification:

- As interior cylinder for Lips rim locks
- Also available as set  
456-L01 + 456-L02 = 456-L  
456-Ö + 456-L02 = 456-Ö1



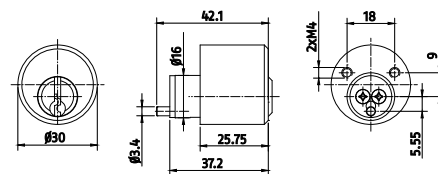
# Cylinder assortment specifications

## Rim cylinder Ø 30 mm "W1" | Cylinder type 356-W1 / 456-W1



### Specification:

- Suitable for respective Wilka rim locks model 2524
- Housing length 5/6 pins - 25,75 mm



## Rim cylinder "Y02" | Cylinder type 356-Y02 / 456-Y02

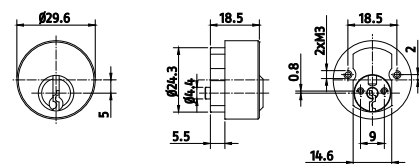


### Specification:

- Suitable for rim locks from Yale as interior cylinder
- Tappet not included in delivery
- Restricted use in key systems due to the short length.

Also available as set:

456-Y01 + 456-Y02 = 456-Y





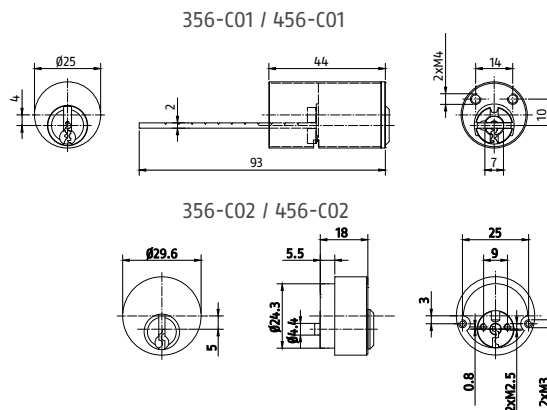


# Cylinder assortment specifications

## Cylinder set "C" | Cylinder type 356-C / 456-C



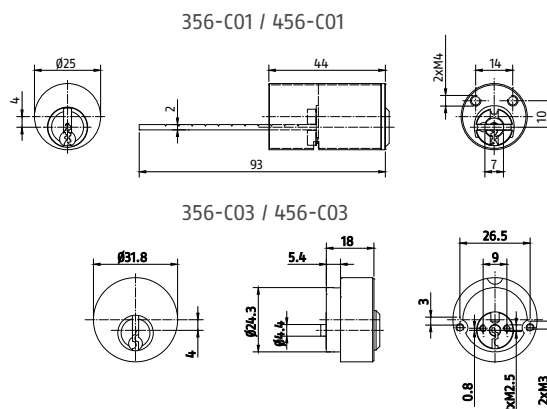
Exterior and interior cylinders as set:  
 456-C01 + 456-C02 = 456-C  
 Specification:  
 • Suitable for respective CISA locks



## Cylinder set "C2" | Cylinder type 356-C2 / 456-C2



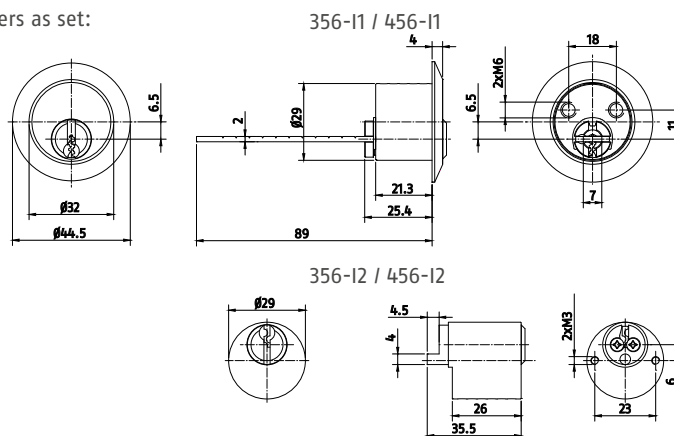
Exterior and interior cylinders as set:  
 456-C01 + 456-C03 = 456-C2  
 Specification:  
 • Suitable for respective CISA locks



## Cylinder set "I" | Cylinder type 356-I / 456-I



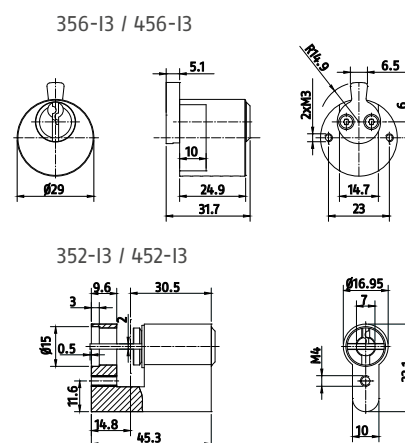
Exterior and interior cylinders as set:  
 456-I1 + 456-I2 = 456-I  
 Specification:  
 • Suitable for IKON locks



## Cylinder set "I5" | Cylinder type 356-I5 / 456-I5



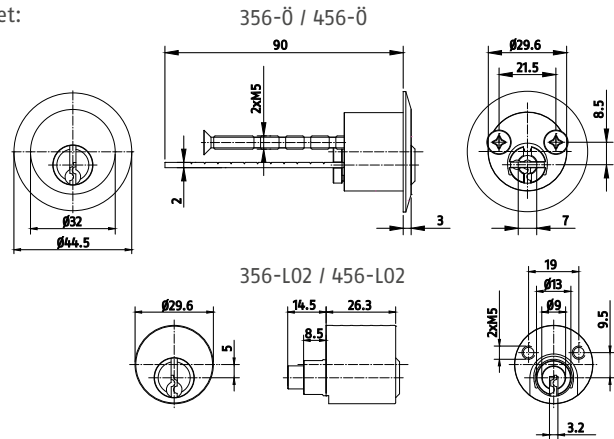
Exterior and interior cylinders as set:  
 456-I3 + 452-I3 = 456-I5  
 Specification:  
 • Suitable for IKON locks



# Cylinder assortment specifications

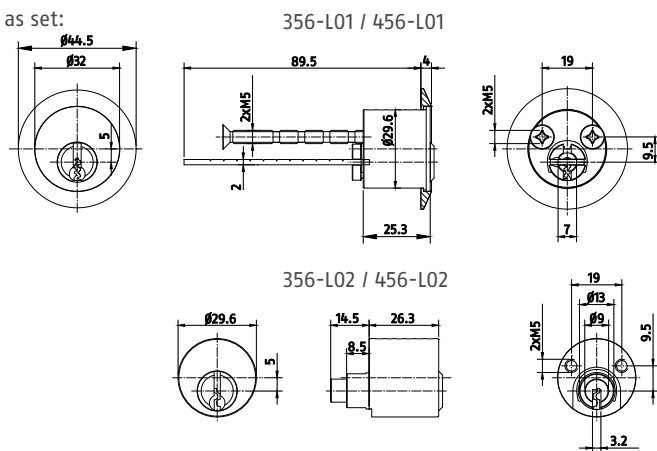
## Cylinder set "Ö1" | Cylinder type 356-Ö1 / 456-Ö1

Exterior and interior cylinders as set:  
456-Ö + 456-L02 = 456-Ö1  
Specification:  
• Suitable for Lips locks



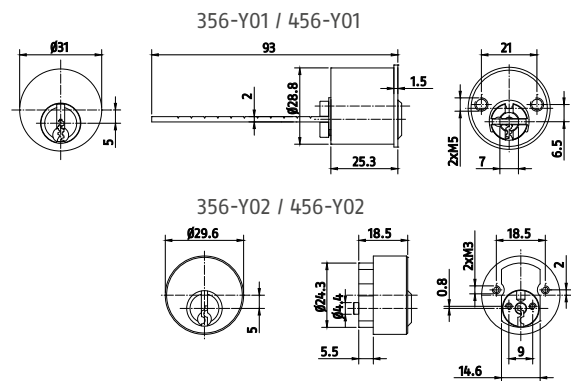
## Cylinder set "L" | Cylinder type 356-L / 456-L

Exterior and interior cylinders as set:  
456-L01 + 456-L02 = 456-L  
Specification:  
• Suitable for Lips locks



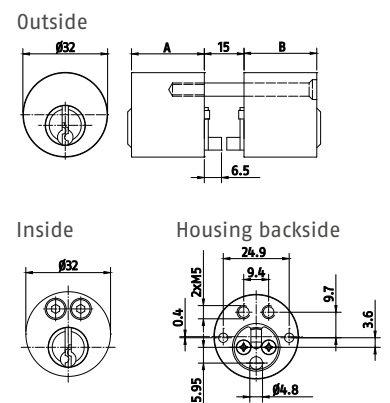
## Cylinder set "Y" | Cylinder type 356-Y / 456-Y

Exterior and interior cylinders as set:  
456-Y01 + 456-Y02 = 456-Y  
Specification:  
• Suitable for Yale locks



## Cylinder set Ø 32 mm "B1" | Cylinder type 356-B1 / 456-B1

Specification:  
• Suitable for mortise locks BKS - replacement for BKS circular cylinder 3107  
• Standard length for interior and exterior cylinder:  
5-pins - 26,5 mm,  
6-pins - 31,5 mm  
• Including 2 fixing screws M5  
Options:  
• Maximum housing length 56,5 mm, in 5 mm steps



# Cylinder assortment specifications

## Cylinder set Ø 32 mm "B2" | Cylinder type 356-B2 / 456-B2



### Specification:

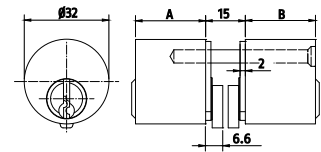
- Suitable for BKS mortise locks - replacement for BKS circular cylinder 3177
- Standard length for interior and exterior cylinder:  
5 pins - 26,5 mm,  
6-pins - 31,5 mm

- Including 2 fixing screws M5

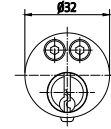
### Options:

- Maximum housing length 56,5 mm, in 5 mm steps
- Special fixing set with spacer available

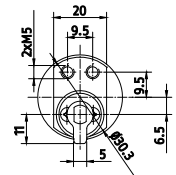
### Outside



### Inside



### Housing backside



## Padlocks and locking inserts for padlocks

### Padlock | Cylinder type 380 / 480

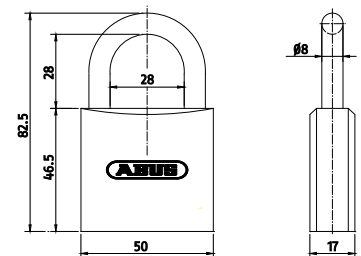


### Specification:

- Housing: Chrome-plated brass
- With hardened steel shackle - Nano protected - height 28 mm
- Locking movement 90°, key removable in both locking positions

### Options:

- Shackle: Steel 48, 64, 80 mm
- Shackle: Chromium-nickel steel 28, 48, 64, 80 mm
- Also available as key retaining (Key can only be removed when the padlock is locked)



### Shackles and special features for padlocks ...380 / ...480

Description		Item no.:
Padlock shackle in hardened steel	48 mm	SG48
	64 mm	SG64
	80 mm	SG80
Padlock shackle in chrome-nickel steel	28 mm	CN28
	48 mm	CN48
	64 mm	CN64
	80 mm	CN80
Padlock with key-retaining locking function (ZWV)	28 mm	ZWV
Anti-theft device for assembly with chain		50HLS11
Anti-theft device for assembly with steel rope		50HLS13
Anti-theft devices cannot be fitted to existing padlocks. Chains and steel ropes are not included in delivery.		

# Cylinder assortment specifications

## Locking insert for ABUS Padlock 83 | Cylinder type 392-VHS83 / 492-VHS83

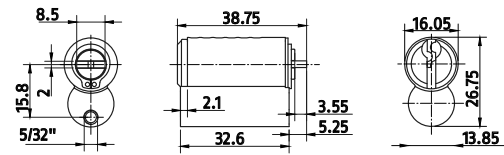


### Specification:

- In combination with ABUS padlock series 83
- A custom fitting at the factory is not necessary. Can be easily retrofitted.

### Options:

- For exterior use we recommend the special feature SA01
- Available with or without padlock



## ABUS Padlock 83 for locking insert 392-VHS83 / 492-VHS83 | Item 50VHS04\_...

### Specification:

- In combination with locking insert ...392-VHS83 / ...492-VHS83
- Patented Z-bar allows padlock to be easily converted from non-key-retaining to key-retaining (key can only be removed when the padlock is locked)
- Patented shackle change system (shackle can be changed within only a few seconds by using tool MHA24)

### Options:

- Further shackle types on request



Z-bar

## ABUS Padlock 83AL/40 | Item 50VHS04\_VH...

### Further color variations:



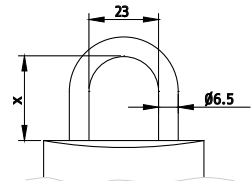
VH10	VH15
VH13	VH14
VH12	VH11

### Specification:

- Shackle of special steel alloy with NANO PROTECT™ plating, height 38 mm
- Ultra light, color anodized aluminum lock body
- Lock insert not included
- Not suitable for outside use

### Options:

- In the finishes brush, yellow, green, blue, red or black



## ABUS Padlock 83AL/45 | Item 50VHS04\_VH22

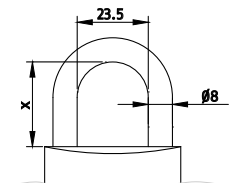


### Specification:

- Standard shackle hardened steel, height 25 mm
- Titanium alloy body
- Lock insert not included
- Limited suitability for outside use

### Options:

- x = 19, 25, 38, 50, 75, 100 mm
- Shackle hardened steel, stainless steel or brass



## ABUS Padlock 83/50 | Item 50VHS04\_VH02

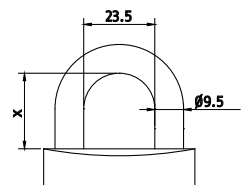


### Specification:

- Standard shackle hardened steel, height 25 mm
- Chrome plated solid brass body
- Lock insert not included
- Limited suitability for outside use

### Options:

- x = 25, 38, 50, 75, 100 mm
- Shackle hardened steel, stainless steel or brass



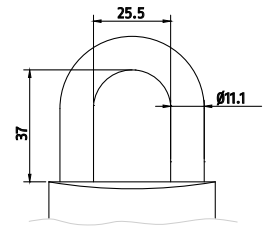
# Cylinder assortment specifications

## ABUS Padlock 83/55 | Item 50VHS04\_VH03



### Specification:

- Standard shackle hardened steel, height 37 mm
- NANO chrome plated, hardened solid steel body
- Lock insert not included
- Limited suitability for outside use

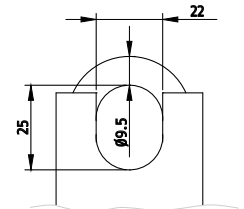


## ABUS Padlock 83CS/50 | Item 50VHS04\_VH04



### Specification:

- Standard shackle hardened steel, height 25 mm
- Chrome plated solid brass body
- Lock insert not included
- Limited suitability for outside use

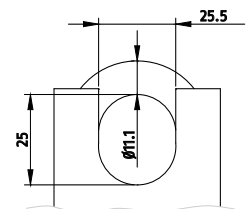


## ABUS Padlock 83CS/55 | Item 50VHS04\_VH05



### Specification:

- Standard shackle hardened steel, height 25 mm
- NANO chrome plated, hardened solid steel body
- Lock insert not included
- Limited suitability for outside use

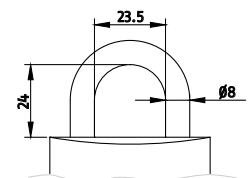


## ABUS Padlock 83WPCS/53 | Item 50VHS04\_VH06



### Specification:

- Standard shackle hardened steel, height 24 mm
- Solid steel body and cylinder protection cover
- Lock insert not included
- Limited suitability for outside use

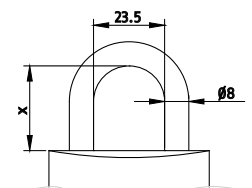


## ABUS Padlock 83WPIB/53 | Item 50VHS04\_VH07



### Specification:

- Standard shackle stainless steel, height 28 mm
  - 100% corrosion resistance due to brass body sheathing and cylinder cover
  - Lock insert not included
  - Very robust, recommended for outside use
- Options:
- x = 19, 28, 63, 75, 100, 125 mm, stainless steel

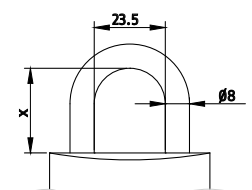


## ABUS Padlock 83WP/53 | Item 50VHS04\_VH08



### Specification:

- Standard shackle hardened steel, height 28 mm
  - Solid steel body and cylinder protection cover
  - Lock insert not included
  - Very robust, recommended for outside use
- Options:
- x = 19, 28, 63, 75, 100, 125 mm





# Cylinder assortment specifications

## ABUS Padlock 83WP/63 | Item 50VHS04\_VH09

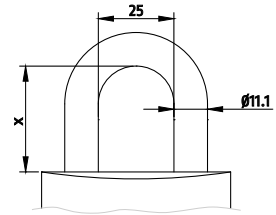


### Specification:

- Standard shackle extremely hardened steel, height 36 mm
- Solid steel body and cylinder protection cover
- Lock insert not included
- Very robust, recommended for outside use

### Options:

- x = 36, 63, 100 mm



## Profile half cylinder for padlock ABUS 86TI/45 and 86TI/55 | Cylinder type 352-VHS86 / 452-VHS86

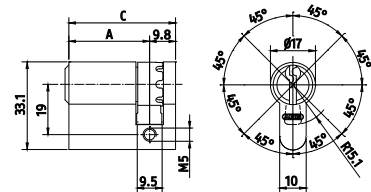


### Specification:

- Profile half cylinder 30/10

### Options:

- Optional available without key retaining (with 50DAS20)

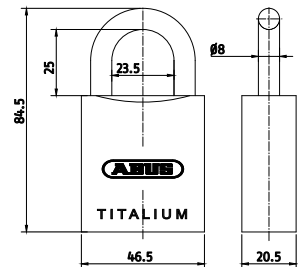


## ABUS padlock for profile half cylinder | Item 86TI/45



### Specification:

- In combination with profile half cylinder 352-VHS86 / 452-VHS86
- Solid lock body made from TITALIUM™ alloy - high security with low weight
- Hardened steel shackle with NANO PROTECT™ coating
- Lock insert not included
- Key retaining

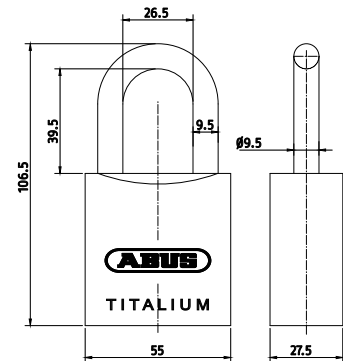


## ABUS padlock for profile half cylinder | Item 86TI/55

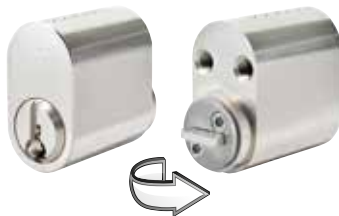


### Specification:

- In combination with profile half cylinder 352-VHS86 / 452-VHS86
- Solid lock body made from TITALIUM™ alloy - high security with low weight
- Hardened steel shackle with NANO PROTECT™ coating
- Lock insert not included
- Can be set as key-retaining or non key-retaining (according to cam position)

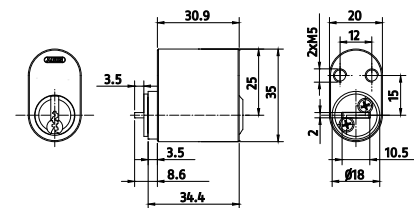


## Oval cylinder for ABUS padlock Rock 60 and Rock 80 | Cylinder type 357-2 / 457-2



### Specification:

- With tail piece 3,5 mm
- Housing length 30,9 mm
- An assembly into the padlock at the factory is recommended
- Ideal: Sending in the padlock



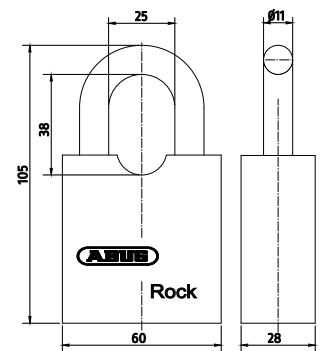
# Cylinder assortment specifications

## ABUS padlock for oval cylinder | Item Rock 60



### Specification:

- In combination with oval cylinder 357-2 / 457-2
- Lock insert not included
- Surcharge for assembling the cylinder into the padlock

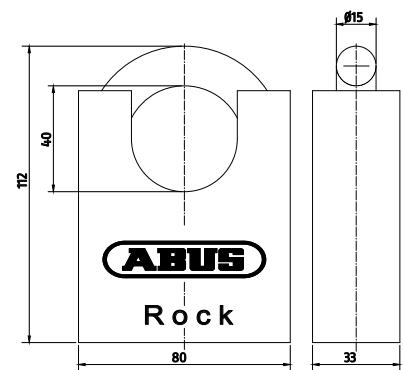


## ABUS padlock for oval cylinder | Item Rock 80



### Specification:

- In combination with oval cylinder 357-2 / 457-2
- Lock insert not included
- Surcharge for assembling the cylinder into the padlock
- Bravus and Vela with different cylinder protection cover



## Padlock with interior square no. 8 | Item 481

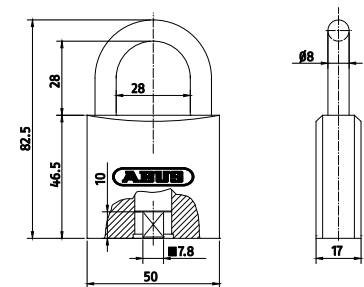


### Specification:

- Housing: Chrome-plated brass
- With hardened steel shackle - Nanoprotected-, height 28 mm
- Delivery without square key

### Options:

- Shackle: hardened steel 48, 64, 80 mm
- Shackle: Chromium- nickel steel 28, 48, 64, 80 mm



## Padlock with interior triangle no. 7 | Item 483

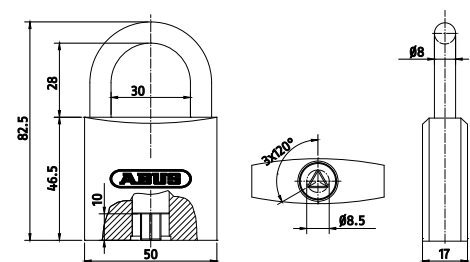


### Specification:

- Housing: Chrome-plated brass
- With hardened steel shackle - Nanoprotected -, height 28 mm
- Delivered without triangular wrench

### Options:

- Shackle: hardened steel 48, 64, 80 mm
- Shackle: Chromium- nickel steel 28, 48, 64, 80 mm



## Padlock with fire brigade knob according to DIN 3223 | Item 482

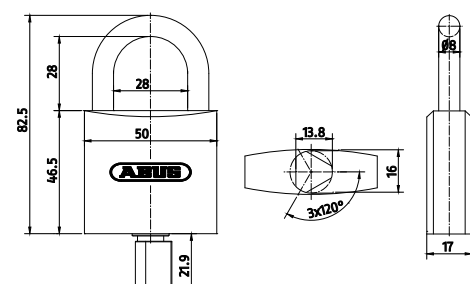


### Specification:

- Housing: Chrome-plated brass
- With hardened steel shackle - Nanoprotected -, height 28 mm
- With higher torque turning resistance to help prevent misuse
- Delivered without key

### Options:

- Shackle: hardened steel 48, 64, 80 mm
- Shackle: Chromium- nickel steel 28, 48, 64, 80 mm



# Cylinder assortment specifications

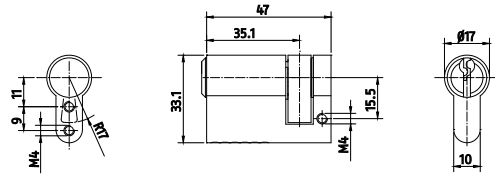
## Lift and switch cylinders

### Half cylinder for "Haushahn" lifts | Cylinder type 350-AZ / 450-AZ



**Specification:**

- Total length cylinder: 5/6-stiftig – 47 mm
- Cylinder includes a special cam with 17mm turn locking radius
- Two threaded screw holes on the back side for fitting

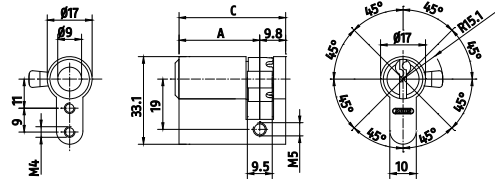


### Profile half cylinder for lift and switch cylinders | Cylinder type 352-AS / 452-AS



**Specification:**

- Basic length cylinder (size C): 5 pins – 36,3 mm, 6 pins – 40,3 mm
- Cam is delivered in 7 o'clock position and can be adjusted in all position of 45° steps (8-fold adjustability)
- Two threaded screw holes on the back side for fitting

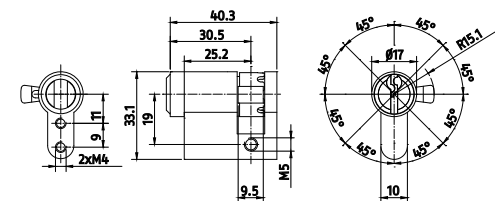


### Profile half cylinder for lift switch | Cylinder type 352-AZ / 452-AZ



**Specification:**

- Overall length cylinder: 5/6 pins – 40,3 mm
- Supplied with cam in 7 o'clock position and the user can put it in any position in 45° steps (8-fold adjustable)
- Two threaded screw holes on the back side for fitting
- After fitting, the body of cylinder is concealed
- Restricted use in locking systems

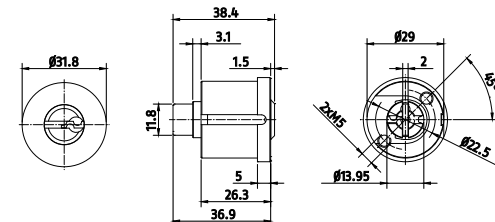


### Rim cylinder for "Schindler" lifts Ø 29 mm | Cylinder type 356-AZ1 / 456-AZ1



**Specification:**

- Total length cylinder: 5/6-stiftig – 26,3 mm
- Especially designed for lifts of the brand "Schindler"



### Switch cylinder Ø 24 mm | Cylinder type 356-S / 456-S

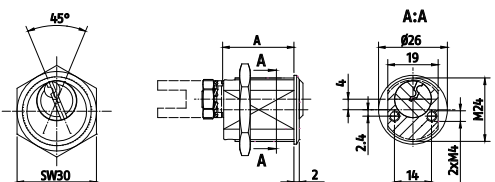


**Specification:**

- Total length cylinder: 5-pins - 22,7 mm, 6-pins - 26,7 mm
- Locking movement 45°, key can be removed in both locking positions
- Restricted use for locking systems

**Options:**

- Adapter according to agreement



# Cylinder assortment specifications

## Key-operated switch cylinder Ø 24 mm | Cylinder type 356-ES1 / 456-ES1

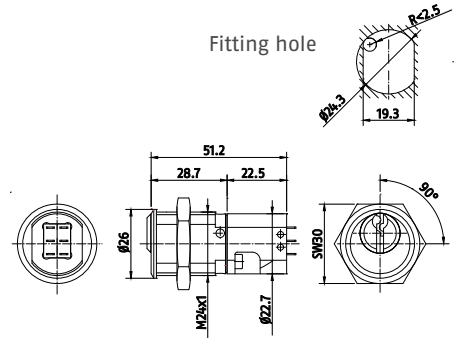


### Specification:

- Overall length of cylinder 5/6 pins – 26,7 mm
- 2 switches (changers) each with soldered connections (1 opener, 1 closer) 250 V-AC/5A and V-DC/5A
- Locking movement 90°, key only removable in vertical position
- Slight deviations regarding the sizes in systems Bravus.2000 and Bravus.3000

### Options:

- Item no. 356-ES1-S01 or 456-ES1-S01 in system Integral: Locking movement 90°, two positions for removing the key

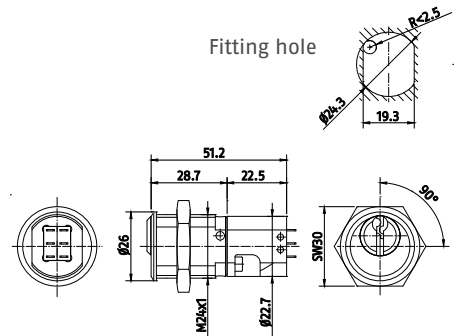


## Key-operated switch cylinder Ø 24 mm rebounded | Cylinder type 356-ES2 / 456-ES2



### Specification:

- Overall length of cylinder 5/6 pins – 26,7 mm
- 2 switches (changers) each with soldered connections (1 opener, 1 closer) 250 V-AC/5A and V-DC/5A
- Locking movement 90°, rebounded, key only removable in locking position
- Slight deviations regarding the sizes in systems Bravus.2000 and Bravus.3000



# Cylinder assortment specifications

## Oval cylinder

### Oval double cylinder | Cylinder type 317 / 417

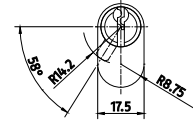
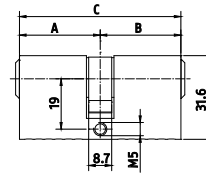


**Specification:**

- „British oval“
- Basic length cylinder (size C):  
5/6 pins – 61 mm
- With special cam

**Options:**

- Available up to a length of 81 mm (30/30, 35/35, 40/40 mm), other lengths on request



### Oval knob cylinder | Cylinder type 337 / 437

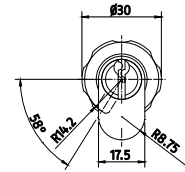
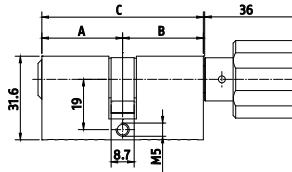


**Specification:**

- „British oval“
- Basic length cylinder (size C):  
5/6 pins – 61 mm
- Standard knob: Form Z, Nickel Pearl
- With special cam

**Options:**

- Available up to a length of 81 mm (30/30, 35/35, 40/40 mm), other lengths on request



### Oval half cylinder with 8-fold adjustable cam | Cylinder type 357 / 457

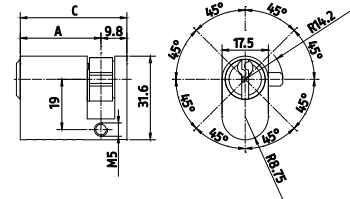


**Specification:**

- „British oval“
- Basic length cylinder (size C):  
5/6 pins – 40,3 mm
- Cam is delivered in 7 o'clock position and can be adjusted in all positions in steps of 45° (8-position adjustability)
- With special cam

**Options:**

- Available up to a length of 50,3 mm (30/10, 35/10, 40/10 mm), other lengths on request



### Interior Scandinavian oval cylinder | Cylinder type 357-1 / 457-1

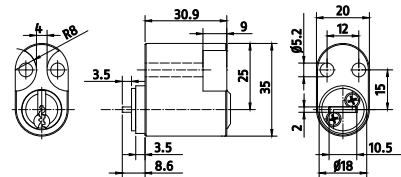


**Specification:**

- Housing length: 5/6 pins – 30,9 mm
- With tail piece 3,5 mm

**Options:**

- Housing also available with 5 or 10 mm extensions
- 60 mm tail piece



### Exterior Scandinavian oval cylinder | Cylinder type 357-2 / 457-2

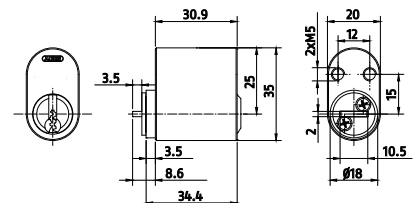


**Specification:**

- Housing length: 5/6 pins – 30,9 mm
- With tail piece 3,5 mm

**Options:**

- Housing also available with 5 or 10 mm extension modules
- 60 mm tail piece





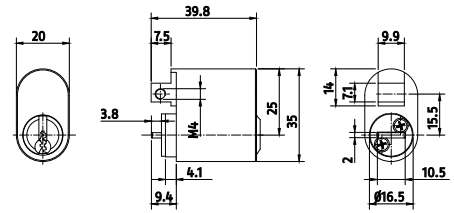
## Cylinder assortment specifications

### Oval cylinder for Norwegian rim locks | Cylinder type 357-M / 457-M



Specification:

- For Norwegian rim locks, e.g. as replacement for TrioVing 5520
- Housing length: 5/6 pins – 39,8 mm
- With tail piece 3,5 mm



### Oval cylinder with knob | Cylinder type 457-MK

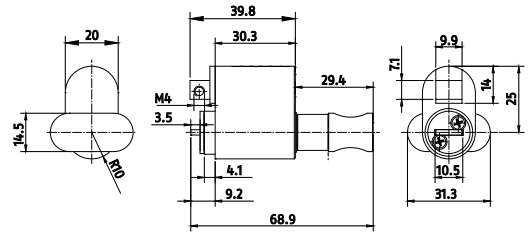


Specification:

- For Norwegian rim locks, e.g. as replacement for TrioVing 5542
- Housing length: 39,8 mm
- Standard knob: shape 0, brass nickel-plated
- With tail piece 3,5 mm

Options:

- Housing also available with 5 or 10 mm extension
- 60 mm tail piece



**Interior oval cylinder with knob | Cylinder type 457-1K**

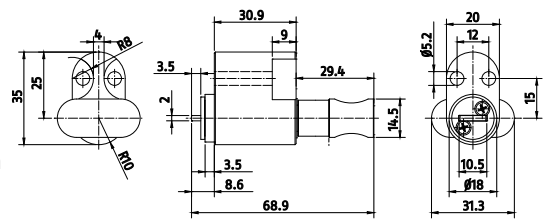


Specification:

- Housing length: 30,9 mm
- Standard knob: shape 0, brass nickel-plated
- With tail piece 3,5 mm

## Options:

- Housing also available with 5 or 10 mm extension
- 60 mm tail piece

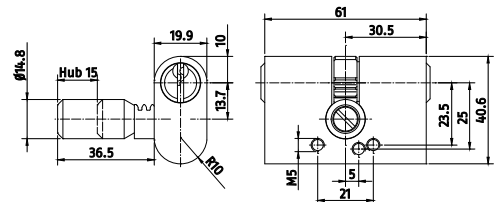


**Oval double cylinder, bolt lock version | Cylinder type 317-RS / 417-RS**



Specification:

- As an independent combination of bolt lock and cylinder, e.g. for special window/door locking
- Housing length: 5/6 pins – 61 mm



**Oval half cylinder, bolt lock version | Cylinder type 357-RS / 457-RS**



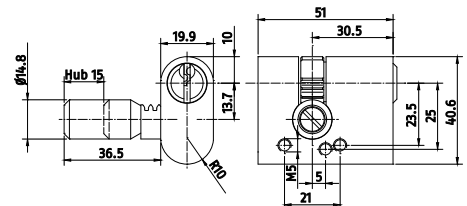
Specification:

- As an independent combination of bolt lock and cylinder, e.g. for special window/door locking

- Housing length: 5/6 pins – 51 mm

Options:

- Housing length: 5/6 pins – 56 mm

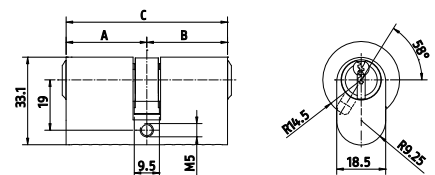


### Oval double cylinder | Cylinder type 314 / 414



Specification:

- „Belgian oval“
- Basic length cylinder (size C):  
5/6 pins – 61 mm
- Only available as 6-pin version



# Cylinder assortment specifications

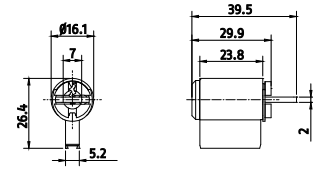
## Key-In-Knob/Lever, deadbolt cylinders - Special cylinder range

### Key-in-Knob/Lever ANSI cylinder | Cylinder type 392-8 / 492-8



**Specification:**

- With 10 mm tail piece, horizontal execution

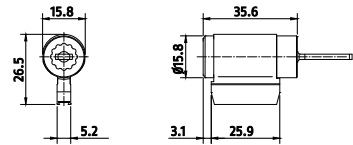


### Key-in-Knob/Lever cylinder (AU) | Cylinder type 392-15 / 492-15



**Specification:**

- With variable tail piece (horizontal or vertical assembly possible)
- Slightly increased exterior dimensions to allow combination with X-option
- Suitable e.g. for Lockwood type 8221, Brava 361/362



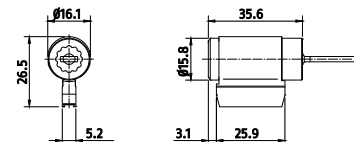
 <b>KUSA:KS03</b>  <b>KUSA:KS04</b> <b>50KUS23/0002</b>	 <b>KUSA:KS02</b>  <b>KUSA:STD</b> <b>50KUS23/0004</b>	 <b>KUSA:KF04</b>  <b>KUSA:KF03</b> <b>50KUS24/0001</b>	 <b>KUSA:KF02</b>  <b>KUSA:KF01</b> <b>50KUS24/0002</b>
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### Key-in-Knob/Lever ANSI cylinder (CAN) | Cylinder type 392-16 / 492-16



**Specification:**

- With variable tail piece (horizontal or vertical assembly possible)



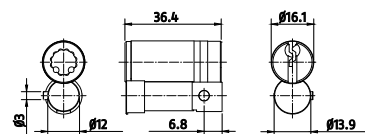
 <b>KUSA:KS03</b>  <b>KUSA:KS04</b> <b>50KUS23/0002</b>	 <b>KUSA:KS02</b>  <b>KUSA:STD</b> <b>50KUS23/0004</b>	 <b>KUSA:KF04</b>  <b>KUSA:KF03</b> <b>50KUS24/0001</b>	 <b>KUSA:KF02</b>  <b>KUSA:KF01</b> <b>50KUS24/0002</b>
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### Locking insert, system "LFIC" | Cylinder type 392-LFIC / 492-LFIC



**Specification:**

- Replaces Schlage large format IC core
- Allow the immediate re keying of a lock without the time and expense of re pinning cylinders
- The replacement core is installed or replaced with the use of a control key (optional)



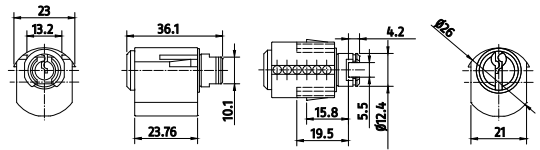
## Cylinder assortment specifications

### Locking insert, system "ME" | Cylinder type 356-ME / 456-ME



Specification:

- Key-in-knob cylinder for „Merloni P875“ type locks
- Housing length of cylinder:  
5/6 pins – 23,76 mm
- Locking function 360°

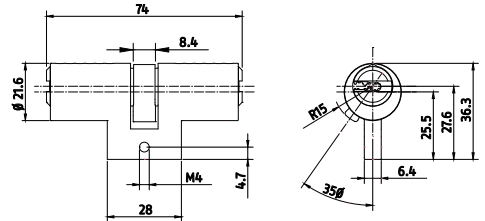


### Profile double cylinder system "Blocktout" | Cylinder type 418-BT2



Specification:

- Suitable for „Blocktut“-type mortice locks
- Housing length of cylinder:  
6 pins – 74 mm
- Only for Bravus

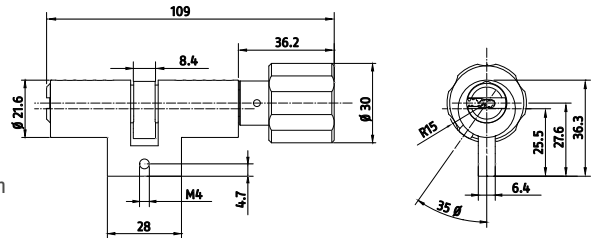


### Profile knob cylinder system "Blocktout" | Cylinder type 438-BT2



Specification:

- Suitable for „Blocktut“-type mortice locks
- Housing length of cylinder: 6 pins – 74 mm
- Only for Bravus
- Standard knob: Shape Z, aluminum anodized, finish Nickel-Pearl



# Cylinder assortment specifications

## Pressure cylinder

### Pressure cylinder | Cylinder type 356-D30 / 456-D30

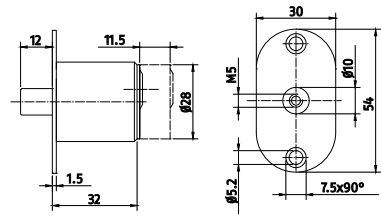
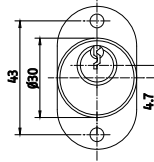


**Specification:**

- Maximum protrusion of the 10mm lock bolt: 11,5 mm
- Fitting diameter 30 mm
- With rosette of  $\varnothing$  40 mm
- Can be locked without key with pressure on the cylinder, opening is only possible with the corresponding key
- Key can be removed immediately after opening

**Options:**

- Key retaining

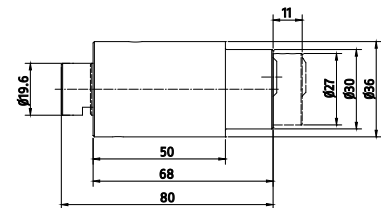


### Pressure cylinder | Cylinder type 356-D36 / 456-D36



**Specification:**

- For trailer hitch (lorry)
- Maximum protrusion of the 20mm lock bolt: 11 mm
- Fitting diameter 36 mm
- Can be locked without key with pressure on the cylinder, opening is only possible with the corresponding key
- Keys can be removed immediately after opening



### Pressure cylinder system "Fichet", short variant | Cylinder type 456-FI01



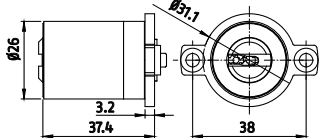
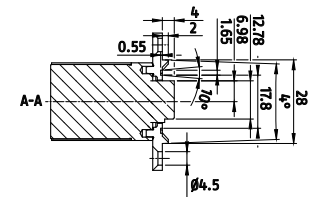
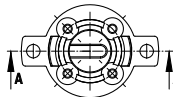
**Specification:**

- Suitable for „Fichet“-type mortice locks
- Fitting diameter 26 mm
- Length 456-FI01: 39 mm
- Only for Bravus

Also available as set:

456-FI01 + 456-FI02 = 456-FI1

456-FI01 + 456-FI01 = 456-FI2



### Pressure cylinder system "Fichet", long variant | Cylinder type 456-FI02



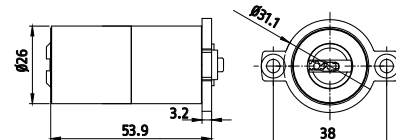
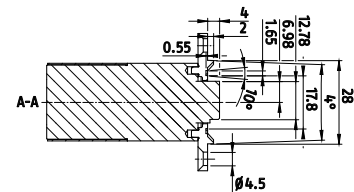
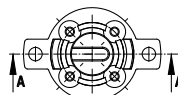
**Specification:**

- Suitable for „Fichet“-type mortice locks
- Fitting diameter 26 mm
- Length 456-FI02: 55 mm
- Only for Bravus

Also available as set:

456-FI01 + 456-FI02 = 456-FI1

456-FI02 + 456-FI02 = 456-FI3



# Cylinder assortment specifications

## Furniture cylinder

### Furniture cylinder | Cylinder type 356-MZ / 456-MZ

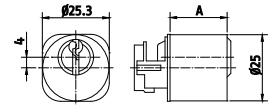


#### Specification:

- Suitable for bolt and espagnolette locks in office furniture and cupboards
- Fitting diameter 25 mm
- Housing length (size A): 5 pin cylinder – 21,5 mm, 6 pin cylinder – 25,3 mm

#### Options:

- With rosette Ø 33,4 mm
- Suitable range of „ASS“ furniture locks available

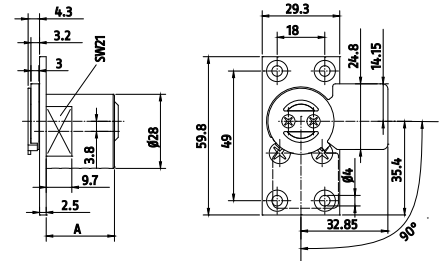


### Furniture cylinder | Cylinder type 356-MZ1 / 456-MZ1



#### Specification:

- Suitable for bolt and espagnolette locks in office furniture and cupboards
- Fitting diameter 25 mm
- Housing length (size A): 5 pin cylinder – 21,5 mm, 6 pin cylinder – 25,3 mm
- Locking movement of 360° at 90° turning movement of the cam (free-wheel function)
- Key can be removed in both positions of the bolt (shifted 90°)





# Cylinder assortment specifications

## Euro profile cylinder with variable locking inserts

### Euro profile double and half cylinder with variable locking inserts | Cylinder type 391XX / 491XX



**Specification:**

- Item number 391XX / 491XX is defined with two X variables, X stands for the function of the locking insert and has to be replaced by an acronym for each cylinder side separately
- Total length double cylinder (size C): 5 pins - 53 mm, 6 pins - 61 mm
- Total length half cylinder (size C): 5 pins - 36,3 mm, 6 pins - 40,3 mm
- Is always delivered without matching tool for opening

**Order example:**

**491XX 30-30\_K\_IA48**

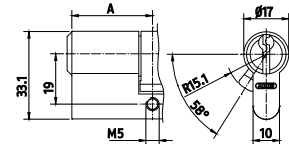
Double cylinder, 6 pins, exterior side with knob, length 30,5 mm  
interior side with interior square no. 8, length: 30,5 mm

#### Variable cylinder side for cylinder type 391X / 491X → A



**Specification:**

- keyed side

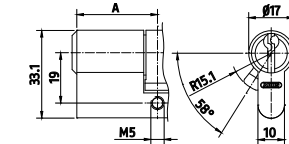


#### Variable cylinder side for cylinder type 391X / 491X → M



**Specification:**

- cylinder side for profiled construction key

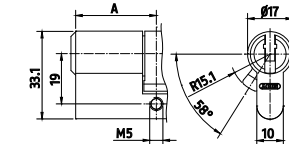


#### Variable cylinder side for cylinder type 391X... / 491X... → U



**Specification:**

- cylinder side for universal construction key

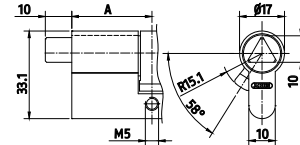


#### Variable cylinder side for cylinder type 391X... / 491X... → AA30



**Specification:**

- With exterior triangle no. 10

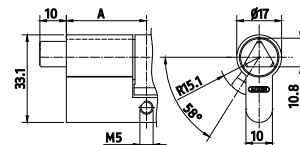


#### Variable cylinder side for cylinder type 391X... / 491X... → AA31



**Specification:**

- With exterior triangle no. 11

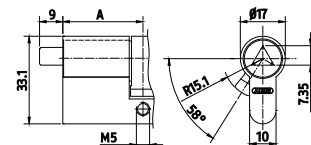


#### Variable cylinder side for cylinder type 391X... / 491X... → AA37



**Specification:**

- With exterior triangle no. 7

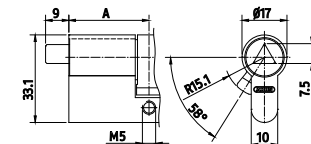


#### Variable cylinder side for cylinder type 391X... / 491X... → AA38



**Specification:**

- With exterior triangle no. 8

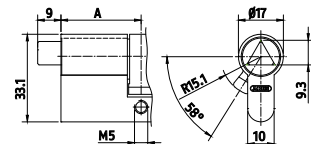


#### Variable cylinder side for cylinder type 391X... / 491X... → AA39



**Specification:**

- With exterior triangle no. 9

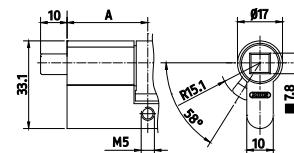


# Cylinder assortment specifications

## Variable cylinder side for cylinder type 391X... / 491X... → AA48



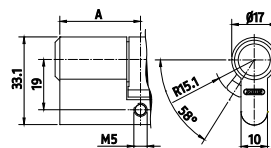
- Specification:
- With exterior square no. 8



## Variable cylinder side for cylinder type 391X... / 491X... → BLIS



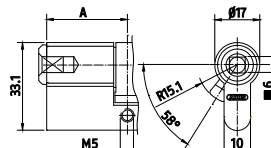
- Specification:
- With dummy/blind core on one side



## Variable cylinder side for cylinder type 391X... / 491X... → II46



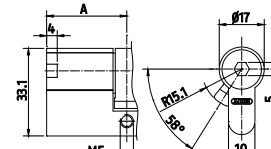
- Specification:
- With interior square no. 6



## Variable cylinder side for cylinder type 391X... / 491X... → II65



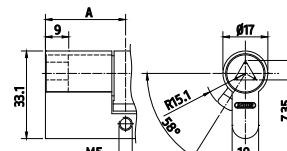
- Specification:
- With interior hexagon no. 5



## Variable cylinder side for cylinder type 391X... / 491X... → IA37



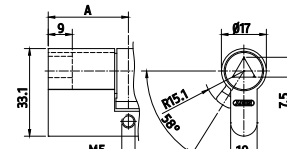
- Specification:
- With interior triangle no. 7



## Variable cylinder side for cylinder type 391X... / 491X... → IA38



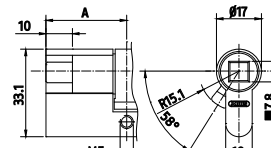
- Specification:
- With interior triangle no. 8



## Variable cylinder side for cylinder type 391X... / 491X... → IA48



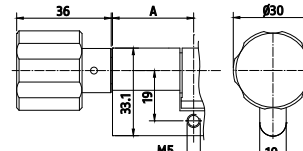
- Specification:
- With interior square no. 8



## Variable cylinder side for cylinder type 391X... / 491X... → K



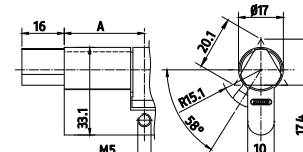
- Specification:
- With knob (always on the right side)



## Variable cylinder side for cylinder type 391X... / 491X... → L



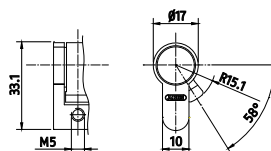
- Specification:
- With fire brigade knob (knob on the right side)



## Variable cylinder side for cylinder type 391X... / 491X... → H



- Specification:
- With half cylinder 9,8 mm



# Cylinder assortment specifications

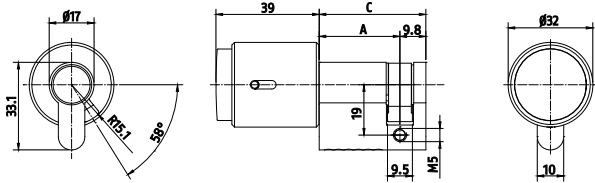
## Special cylinders without keys / locking function

### Profile half cylinder with pressure knob | Cylinder type 450-DK



**Specification:**

- Basic length cylinder (size C): 6 pins – 40,3 mm
- Exterior diameter of the knob, without grip: 32 mm
- Cam can only be turned when button is pressed and held



### Knob cylinder in extra short lengths, knob on both sides "-SL" | Cylinder type 391KK-SL

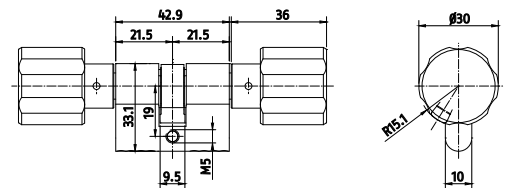


**Specification:**

- Special length: 21,5 mm / 21,5 mm
- Standard knob: Form Z, aluminum anodized, finish Nickel Pearl

**Options:**

- Different knob shapes and finishes, except types K, S and O
- brass-finish and chrome

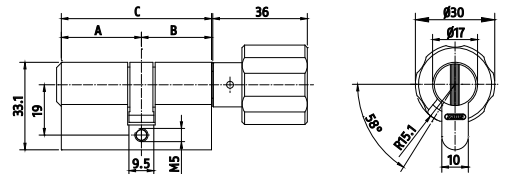


### Profile knob bathroom cylinder indicating "Engaged" | Cylinder type 391-11 / 491-11



**Specification:**

- Basic length cylinder (size C): 5 pins – 53 mm, 6 pins – 61 mm
- Standard knob: Form Z, Nickel Pearl
- free 360° turning

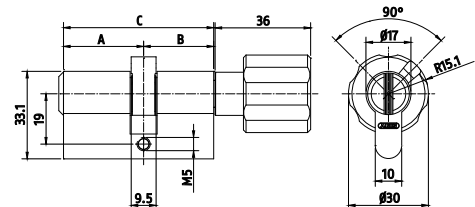


### Profile knob bathroom cylinder indicating "Engaged" | Cylinder type 397 / 497



**Specification:**

- Basic length cylinder (size C): 5 pins – 53 mm, 6 pins – 61 mm
- Standard knob: Form Z, Nickel Pearl
- Limited turning movement 90°
- To install the cylinder, a needle can be used to temporarily disengage the 90° turning limit



### Oval Norwegian cylinder with knob | Cylinder type 457-MK

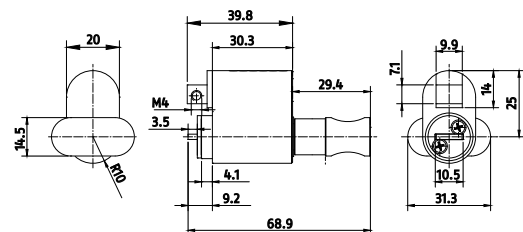


**Specification:**

- For respective rim locks, e.g. as replacement for Trioving 5542
- Housing length: 39,8 mm
- Standard knob: shape O, brass nickel-plated
- With tail piece 3,5 mm

**Options:**

- Housing with 5 or 10 mm extension
- 60 mm tail piece



### Interior Scandinavian oval cylinder with knob | Cylinder type 457-1K

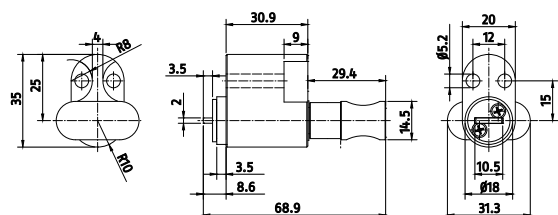


**Specification:**

- Housing length: 30,9 mm
- Standard knob: shape O, brass nickel-plated
- With tail piece 3,5 mm

**Options:**

- Housing with 5 or 10 mm extension
- 60 mm tail piece

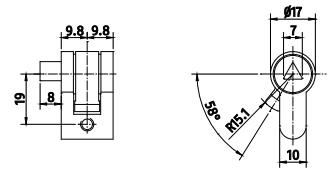


# Cylinder assortment specifications

## Short cylinder with exterior triangle no. 7 | Cylinder type 491-2



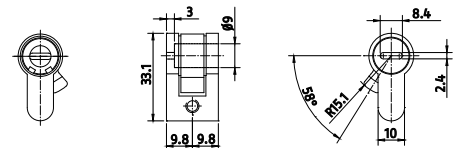
- Specification:
- Basic length 9,8/9,8 mm



## Short cylinder suitable for operation with a tail piece | Cylinder type 491-3



- Specification:
- Basic length 9,8/9,8 mm

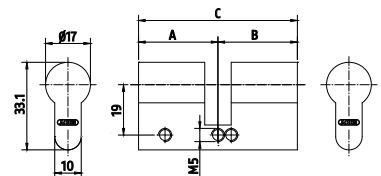


## Dummy cylinder

### Compact euro profile blind/dummy cylinder | Cylinder type 493-...



- Specification:
- Longer sizes have several installation screw holes for flexible fitting in different door thickness. Please refer to table below
  - Material: Titanium
  - Suitable for the use in fire doors, test certificate on demand.



Fitting possibilities for each length	Total length	Item no.:
10/25	35	493-35
10/30	40	493-40
10/35	45	493-45
10/40, 25/25	50	493-50
10/45, 27,5/27,5	55	493-55
10/50, 25/35, 30/30	60	493-60
10/55, 25/40, 35/30	65	493-65
10/60, 25/45, 35/35, 30/40	70	493-70
10/65, 25/50, 35/40, 45/30	75	493-75
10/70, 25/55, 35/45, 30/50, 40/40	80	493-80
10/75, 25/60, 35/50, 45/40, 55/30	85	493-85
10/80, 25/65, 35/55, 45/45, 30/60, 40/50	90	493-90
10/85, 25/70, 35/60, 45/50, 55/40, 65/30	95	493-95
10/90, 25/75, 35/65, 45/55, 30/70, 40/60, 50/50	100	493-100
10/95, 25/80, 35/70, 45/60, 55/50, 65/40, 75/30	105	493-105
10/100, 25/85, 35/75, 45/65, 55/55, 30/80, 40/70, 50/60	110	493-110
10/105, 25/90, 35/80, 45/70, 55/60, 65/50, 75/40, 85/30	115	493-115
10/110, 25/95, 35/85, 45/75, 55/65, 30/90, 40/80, 50/70, 60/60	120	493-120

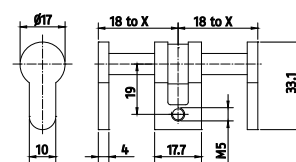
# Cylinder assortment specifications

## Adjustable euro profile blind/dummy cylinder | Cylinder type 494-...-ohne



### Specification:

- Very short lengths can be achieved by cutting the bars
- Suitable for the use in fire doors, test certificate on demand
- Cylinder material: zinc die-cast



Description	Adjustment range from	Item no.:
Adjustable dummy cylinder for application without rosette	35 to 56 mm	494-64-ohne
Adjustable dummy cylinder for application without rosette	50 to 84 mm	494-84-ohne
Adjustable dummy cylinder for application without rosette	80 to 154 mm	494-144-ohne

## Adjustable euro profile blind/dummy cylinder for decorative plates | Cylinder type 494-...-...



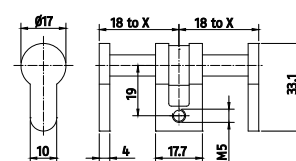
### Specification:

- Very short lengths can be achieved by cutting the bars
- Decorative plates not supplied
- Cylinder material: zinc die-cast

### Please note:

Don't forget to order the decorative plates!

**Order example:** 494-84-F2, 494-144-50KR011



Description	Adjustment range from	Item no.:
Adjustable dummy cylinder for application with rosette	35 to 56 mm	494-64-...
Adjustable dummy cylinder for application with rosette	50 to 84 mm	494-84-...
Adjustable dummy cylinder for application with rosette	80 to 154 mm	494-144-...

## Decorative cover plates for euro profile blind/dummy cylinder | Item 50KR0...

### Specification:

- Material: synthetics in 6 RAL and 6 metal colors



Description	Colors	Item no.:
Plates for adjustable dummy cylinder (RAL-DS 9500)	white	50KR012
Plates for adjustable dummy cylinder (RAL-DS 0808090)	yellow	50KR005
Plates for adjustable dummy cylinder (RAL-DS 1500)	black	50KR011
Plates for adjustable dummy cylinder (RAL-DS 0807005)	manhattan	50KR006
Plates for adjustable dummy cylinder (RAL-DS 0303045)	red	50KR009
Plates for adjustable dummy cylinder (RAL-DS 0102025)	dark red	50KR010
Plates for adjustable dummy cylinder (Nickel)	nickel mat	50KR008
Plates for adjustable dummy cylinder (Aluminum)	F1	50KR001
Plates for adjustable dummy cylinder (Nickel silver)	F2	50KR002
Plates for adjustable dummy cylinder (Gold)	F3	50KR003
Plates for adjustable dummy cylinder (Bronze)	F4	50KR004
Plates for adjustable dummy cylinder (Brass polished)	MS	50KR007



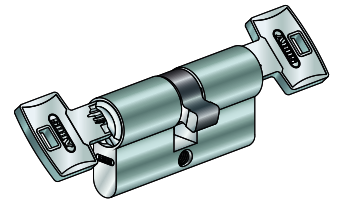
# Technical information - special features

## Emergency function

- Only for double cylinders
- It allows the cylinder to be operated from one side even if a key is inserted on the other side of the cylinder, e.g. in front doors, emergency doors

Order example: 410-3030 GKUP

GKUP



Combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	Wavy Line	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

## Free-wheel cam when key is taken out

- Only for double and half cylinders in mortise locks with panic function or multipoint locking
- For all systems incl. emergency function
- When the keys are taken off on both sides the cylinder cores are not linked torque proof with the cam
- Does not correspond to the „Prüfrichtlinie für Profilzylinder mit Freilauffunktion für Getriebebeschlossler in Fluchttürverschlüssen“ edition 2010-01 of the „Gütergemeinschaft Schlösser und Beschläge e.V.“

PKUP



Order example: 410-3030 PKUP

Combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	Wavy Line	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

## Profile cylinders with free-wheel cam for gear locks in emergency exits – FZG

- Free-wheel function for profile double cylinders in emergency exits with gear locks tested according to PIV directive (Prüfinstitut Schlösser und Beschläge Velbert, Prüfbericht 20-51/15)
- Definition according to DIN 18252: The cam of the profile cylinder can be turned freely when the key is taken out
- starting at lengths 35-35; only applicable to 6-pin systems

ZKUP

Order example: 410-3030 ZKUP

Combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	---	---	Integral*	Wavy Line pro	Wavy Line*	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14*	XW14*	KW14*	Standard	X14	K14	

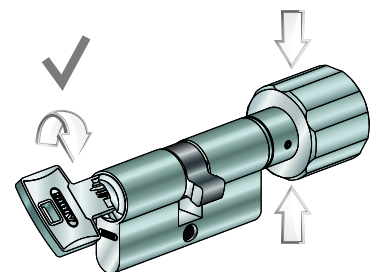
## Cylinders with obliged decoupling of knob

- Only for knob cylinders
- Used in public buildings, schools, kindergarten
- By inserting the key on the outside the knob is not able to lock on the inside
- ZKU2 - any knob shape and finish (standard version: form Z, Nickel Pearl)
- ZKU3 - with red knob, form L, polyamide (Anti Amok)

Order example: 430-3030 ZKU2

ZKU2

ZKU3



Combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	Wavy Line	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

\* on request

# Technical information - special features

## Profile cylinders with attack resistance class D under EN1303

BZD

- For doors which need a special protection
- Two additional hardened steel pins are inserted in the housing and core on each cylinder side
- Only for double cylinders 6 pin system

Order example: B2L410-3030 BZD

Combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	Wavy Line	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

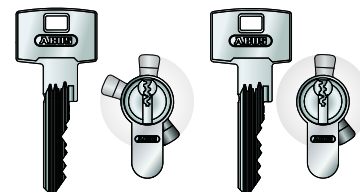
## Cylinders with separate rotation locking

Half and knob cylinder  
Double cylinder

FSWS  
FSWS

- Used when certain sets of keys only get a limited locking function
- With two sets of keys
- The first key only operates the latch, the second key operates the latch and the bolt
- Limited use in locking systems

Order example: 410-3030 FSWS



Combinable with systems:

---	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000*	Vela.1000	---	Vitess.2000*	Vitess.1000	---	Zolit.2000*	Zolit.1000
S60+	S6+	S50+	S5+	---	---	---	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	---	W14	XW14	---	Standard	X14	---	

## Cylinder with secondary key set system

Half and knob cylinder  
Double cylinder

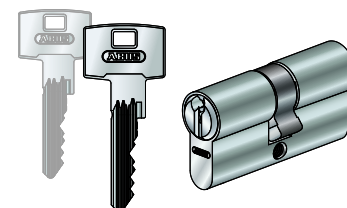
FZSS  
FZSS

- After a loss of keys they are no longer authorized to open the cylinder (without change of the cylinder) or if a locking system is already assembled during the construction phase and after the completion of the building the keys of the builder should no longer be authorized to open the cylinders (without change of the cylinder)
- With two sets of keys
- After loss of the 1st set of keys the 2nd set is used and can revoke the locking authority of all keys of the 1st set permanently
- Limited use in locking systems

Order example: 410-3030 FZSS

Combinable with systems:

---	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000*	Vitess.2000	Vitess.1000	Zolit.4000*	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	---	---	---	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	---	---	KW14*	Standard	X14	K14*	



## Picking protection

PS

- To increase the picking protection in cylinders
- Special matching pinning of the cores and housing
- In the systems WL, WLP, Integral and with VdS certificate the picking protection belongs to the standard fitting
- No additional picking protection in systems Bravus and Vela necessary

Order example: 410-3030 PS

Combinable with systems:

						Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	Wavy Line	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

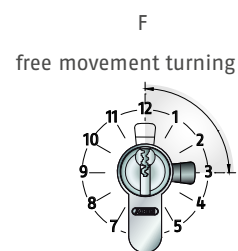
\* on request

# Technical information - special features

## Half cylinder with limited free-wheel function

- Only for half cylinders
- To limit the rotation of the cam in case of a single-rotating locking (360° rotation of the key)
- The free-wheel function is defined in clockwise direction
- Possible free-wheel angles of 90°, 180°, 240° and 270°

Order example: 452-3010 GF



Combinable with systems:

Bravus.4000*	Bravus.3000*	Bravus.2000*	Bravus.1000*	Vela.2000*	Vela.1000*	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	---	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

## Pre-snap function

- Only for double cylinders, half cylinders and knob cylinders
- For the controlled breaking of the cylinder at a predetermined breaking point in case of missing or inadequate security plate
- For an improved thermal separation of the outer shell of the building. Only 15 % energy loss in comparison to cylinders without pre-snap function
- Pre-snap plus with increased drill protection behind the predetermined breaking point)
- Combinations with other special features can be restricted

Pre-snap on both sides

Pre-snap on one side

Pre-snap plus on one side

Pre-snap plus on both sides

Pre-snap on both sides

Pre-snap on one side

BR01

BR02

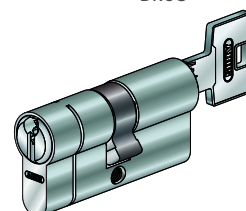
BR04

BR05

BR07

BR08

Order example: 410-3030 BR01



BR01 to BR05 Combinable with systems:

Vitess.2000	Vitess.1000	Zolit.2000	Zolit.1000	S60+	S6+	S50+
S5+	Y14 Deltus	XY14 Deltus	Y14	XY14	Z14	XZ14
V14	XV14	W14	XW14	Standard	X14	

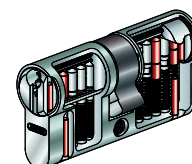
BR07 and BR08 Combinable with systems:

Bravus.3000	Bravus.2000	Bravus.1000	
Vela.2000	Vela.1000		

## Drill protection - standard

- Hardened steel pins in housing and core per closing side for Euro profile cylinders
- Resistance class 2 according to DIN EN 1303
- Drilling protection on special cylinders on request

Included



Combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	Wavy Line	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

## Drill protection - strong drill protection

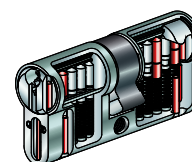
- Profile cylinders: all systems, special cylinders: on demand
- For doors which need a special protection
- Two additional hardened steel pins in the housing and core plus one steel pin on the face of the housing on each locking side

Order example: 410-3030 BS04

Combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	Wavy Line	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

BS04



\* on request

# Technical information - special features

## Salt-water resistance

- For the use in oceanic climate or saline atmosphere
- Housing, cores and knob in brass, chromium-plated
- Protection measures against corrosion for all functional parts
- Combinations with other special features can be restricted
- The special feature has been tested in climate and salt mist test according to DIN 50021SS regarding corrosion resistance

SA01



## Order example: 410-3030 SA01

Combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	Wavy Line*	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

## Cylinder finishes

- For individual requirements on the design
- To create a unique appearance of the cylinder and the fitting
- Surfaces galvanized
- Possible finishes:

Nickel plated	Ni
Antique bronze	BROA
Antique brass	MSA
Antique copper	CUA
Dark nickel	NIA
Antique silver	SIA
Bright silver	SIGL
Black silver	SISW
Brass	MS
Polished gold	AUPO
Satin chrome	CR
Polished chrome	CRGL



## Order example: 410-3030 CR

Combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	Wavy Line	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

## Cylinders with two locking sides

370

- Pinned with different codes.
- Not possible on all products.

Combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	Wavy Line	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

## Special numbering cylinder

Not possible on all products.

up to 9 characters (incl. key system no.) without surcharge  
 from 10 to max. 12 characters with surcharge SN02  
 more than 12 characters only on request SN04

Combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000	Vela.2000	Vela.1000	Vitess.4000	Vitess.2000	Vitess.1000	Zolit.4000	Zolit.2000	Zolit.1000
S60+	S6+	S50+	S5+	Integral	Wavy Line pro	Wavy Line	Y14 Deltus	XY14 Deltus	Y14	XY14	
Z14	XZ14	V14	XV14	KV14	W14	XW14	KW14	Standard	X14	K14	

\* on request

# Technical information - special features

## VdS approved cylinders

- Together with double cylinders and half cylinders
- For particular demands on the cylinders by insurance companies
- Special components for protection against unlocking attempts and against attacks with metal-cutting tools in accordance with VdS 2156-1
- Cylinders are labelled with logo and number of recognition
- Combinations with other special features can be restricted

VdS A



### Order example: B2L410-3030 VdS A

The current status of VDS recognition is available on request.

Combinable with systems:

Bravus.4000 VdS A	Bravus.3000 VdS A	Bravus.2000 VdS A
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## VdS approved sets (rim lock and cylinder)

- For circular cylinder set system ABUS 4 (KV356-A4) and exterior circular cylinder system ABUS (KV356-A) in combination with rim lock 7025/7010
- For circular cylinder set system ABUS 3 (V356-A5) and exterior circular cylinder system ABUS (V356-A) in combination with rim lock 7525/7510
- For particular demands on the cylinders by insurance companies
- Systems V14 and KV14 approved as burglary-resistant door protection for retrofitting
- Limited use in locking systems
- Combinations with other special features can be restricted

VdS Home

### Order example: KV356-A4

The current status of VDS recognition is available on request.

Combinable with systems:

V14 Vds Home	KV14 VdS Home
-----------------	------------------

## SKG approved cylinders

- For profile double-, half- and knob cylinders
- For particular demands on the resistance of the cylinders
- Use of additional hardened drill protection elements in housing and core per locking side
- Cylinders are marked at the front face with SKG logo
- Can be used in locking systems, combinations with other special features can be restricted
- Also available for cylinders in modular design MX

SKG ★★  
SKG ★★★



### Order example: YD410-SKG ★★

SKG ★★ combinable with systems:

Integral	Wavy Line pro	Y14 Deltus	Y14
V14	KV14		
Standard	W14	KW14	

SKG ★★★ combinable with systems:

Bravus.4000	Bravus.3000	Bravus.2000	Bravus.1000
Vitess.4000*	Vitess.2000*	Vitess.1000	Wavy Line pro
Y14 Deltus	Y14	Standard	

\* on request

# Technical information - accessories

## Key Caps COMBICAP - for retrofitting



Red Black Nacre



White Light blue Rose



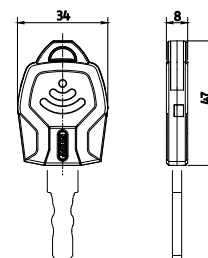
Light grey Light green Assembly kit

### Specification:

- Material: plastic
- Available in various colors and color combinations for all ABUS Pfaffenhain-systemes
- Please note this cap is cannot be supplied ready-assembled from the factory. Retrofit only.
- For the use with transponders (optional) to operate electronic products
- Later opening of the key cap is possible at any time, e.g. for the change of a transponder

### Attention:

Please mind the packaging units as per below.



Description	Item no.
<b>Complete solution:</b> Pack of 10 pcs. main body with assembly kit and spacers - Please indicate the color for main body and assembly kit as well as the key system- Order example: COMCAP01-nacre main body; red assembly kit; system Integral	COMCAP01
<b>Single parts:</b> Pack of 10 pcs. basic body - Please indicate the color - Order example: 50SKHG01-nacre	50SKHG01
Pack of 10 pcs. assembly kit consisting of clip and filling piece - Please indicate the color - Order example: 50SKMK01-light blue When using the filling piece, the cap can be used as RFID-TAG (without key)	50SKMK01
Pack of 10 pcs. spacer for compensation of key thickness of 0,5 mm For keys of the systems Z14 and Integral.	50SAB03-0,5
Pack of 10 pcs. spacer for compensation of key thickness of 1,0 mm For keys of the systems Vela, Vitess, Zolit, S60+, S6+, S50+, S5+, Standard, V14, Y14, Y14 Deltus, W14 and Wavy Line.	50SAB03-1,0
Keys of the system Wavy Line pro and Bravus do not require the spacer.	

## Transponders for Combi Caps



Description	Item no.
Transponder EM4200, diameter 17 mm, frequency 125 kHz	50TSP07
Transponder EM4200, diameter 27 mm, frequency 125 kHz	50TSP09
Transponder Mifare 1k classic, diameter 17 mm, frequency 13,56 kHz	50TSP08
Transponder Mifare 1k classic, diameter 27 mm, frequency 13,56 kHz	50TSP10
Transponder Mifare 8k Desfire EV1, diameter 17 mm, frequency 13,56 kHz (for wAppLoxx)	50TSP12



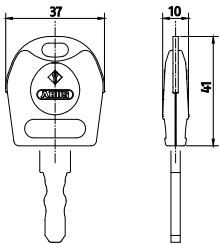
# Technical information - accessories

## Key Caps SKUNI - Plastic key cap with metal reinforcement



- Specification:
- Material: plastic / nickel silver
  - Available in various colors and color combinations for all APf systems
  - Due to the special construction, this cap is factory supplied only
  - For the use with transponders (optional) to operate electronic products
  - Please note that, once the cap is fitted and supplied, it cannot be disassembled or modified

**Order example:**  
SKAP01-red V14: Key Cap red, without transponder, system V14 or  
SKAP01-TP01-red/blue Std.: Key Cap red/blue, with Transponder EM4200, system Standard



Description	Item no.
Key cap completely assembled Please indicate the color. Available colors: red, blue, green, yellow, white, black	SKAP01...

## RFID Tags for Key Caps SKUNI



Description	Item no.
Contactless RFID tag (PET) EM4200, diameter 17 mm, frequency: 125 kHz	TP01
Contactless RFID tag (PET) Mifare 1k classic, diameter 17 mm, frequency: 13,56 kHz	TP02
Contactless RFID tag (PET) HITAG 2, diameter 17 mm, frequency: 125 kHz	TP05
Transponder Mifare 8k Desfire EV1, diameter 17 mm, frequency 13,56 kHz (for wAppLoxx)	TP06
Contactless RFID tag (PET) diameter 17 mm, supplied by customer	JAKT

# Technical information - accessories

## Key Caps KEYCAP - for retrofitting



dark blue

red

pink



capri blue

green

black



white

silver

yellow



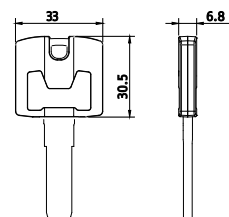
coral

### Specification:

- Material: plastic
- Available in various colors and color combinations for all ABUS Pfaffenhain systems
- Fitting at the factory not necessary, can be easily retrofitted
- The caps can be disassembled and replaced at any stage
- Subsequent opening of the key cap is possible, but not without damaging it
- Not suitable for use with transponders
- Locking mechanism number and embossing are visible

### Order example:

KEYCAP01BG-red: Plastic key caps red



Description	Item no.
Set of 10 key caps for 10 conventional keys and/or reversible keys contains: 20 x cap halves, 10 x metal reinforcements for the keyring and 20 x windows - Please indicate the color -	KEYCAP01BG...
Using the windows contained in the set:	
Thickness 2,6 mm Vela, Vitess, Zolit, S60+, S6+, S50+, S5+, S5+, S6+, Wavy Line, Y14 Deltus, Y14, V14, W14, Standard	
Thickness 3,5 mm Bravus, Wavy Line pro	
Available colors: dark blue, red, pink, capri blue, green, black, white, silver, yellow, coral	

## Plastic key caps SKKR to clip - for a simple visual identification



Red

Blue

Green



Yellow

White

Black

### Specification:

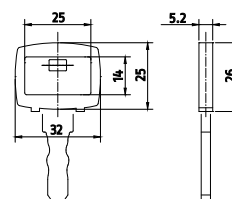
- Material: plastic
- Available in various colors and color combinations for all ABUS Pfaffenhain systems (except system Wavy Line pro and Bravus)
- Fitting at the factory not necessary, can be easily retrofitted
- The caps can be disassembled and replaced at any stage

### Order example:

SKKR-red, system V14: Plastic key caps to clip, red, system V14

or

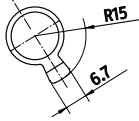
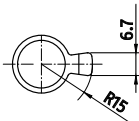
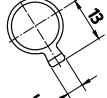
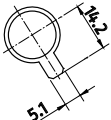
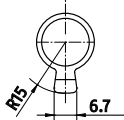
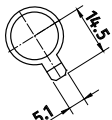

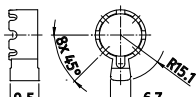
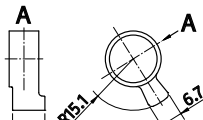
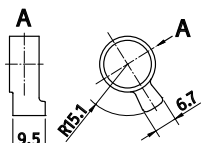
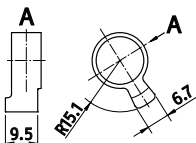
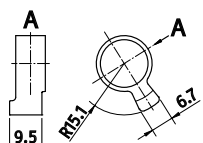

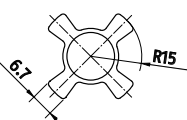
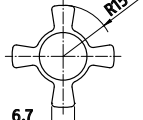

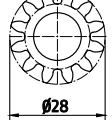

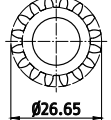
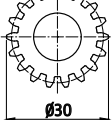
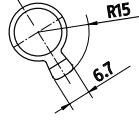
SKKR-white, Std.: Plastic key caps to clip, white, system Standard



Description	Item no.
Please indicate the color. Available colors: red, blue, green, yellow, white, black	SKKR...

# Technical information - accessories

## Cams for profile cylinders

<p>...STD      b=8,7 mm ...SB15      b=7,6 mm</p>  <p>Standard ...STD for ABUS PR1400 - PR1900</p>	<p>...SB06      b=8,7 mm</p>  <p>Block lock 90°</p>	<p>...SB07      b=8,7 mm</p>  <p>Spain</p>
<p>...SB08      b=8,7 mm</p>  <p>British oval cylinder</p>	<p>...SB10      b=8,7 mm</p>  <p>Cam with 6 o'clock position</p>	<p>...SB12      b=8,7 mm</p>  <p>Belgium</p>
<p>50SBS04      b=8,6 mm</p>  <p>Small locking radius</p>	<p>50SBHN01      b=9,5 mm</p>  <p>Half cylinder with adjustable detents</p>	<p>50SBDJS01KL      b=8,7 mm</p>  <p>Short cylinder WLP ...-KV, knob right</p>
<p>50SBDJS01KL      b=8,7 mm</p>  <p>Short cylinder Bravus ...-KV, knob left</p>	<p>50SBDJS01      b=8,7 mm</p>  <p>Short cylinder WLP ...-KV</p>	<p>50SBDJS01      b=8,7 mm</p>  <p>Short cylinder Bravus ...-KV</p>
<p>...SB05      b=8,7 mm</p>  <p>Double cam (Biffar)</p>	<p>...SB04      b=8,1 mm</p>  <p>Quadruple cam for ABUS PR2000 ... PR2500</p>	<p>...SB14      b=8,7 mm</p>  <p>Quadruple cam for door bar</p>
<p>...SB11      b=7,7 mm</p>  <p>10 teeth cog</p>	<p>...SB02      b=7,5 mm</p>  <p>12 teeth cog</p>	<p>...SB03      b=7,2 mm</p>  <p>14 teeth cog</p>
<p>...SB13      b=8,5 mm</p>  <p>16 teeth cog</p>	<p>...SB16      b=8,5 mm</p>  <p>18 teeth cog</p>	<p>50SBDJS02      b=8,7 mm</p>  <p>for ZKUP</p>

b = Cam width  
Image installed cylinder

Other cam shapes on demand.

# Technical information - accessories

## Knob shapes and finishes | Item no.: 50KNN Z...



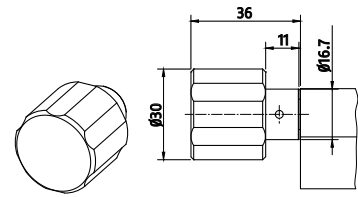
F1 F2 F3



F4 F5

Specification:  
• Knob shape Z  
• Material: anodised aluminium

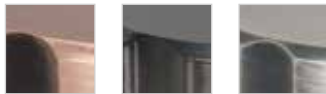
**Order example:**  
50KNN ZF1: Knob shape Z, finish F1



## Knob shapes and finishes | Item no.: 50KNN Z...



NI BRA MSA



CUA NIA SIA



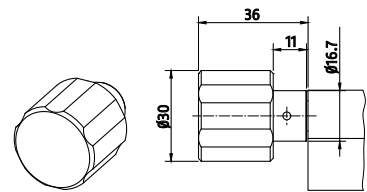
SIGL SISW AUPO



CR CRGL

Specification:  
• Knob shape Z  
• Material: Brass

**Order example:**  
50KNN ZNI: Knob shape Z, finish Nickel



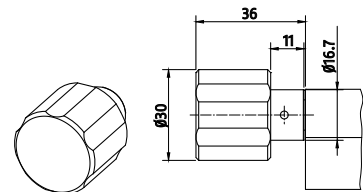
## Knob shapes and finishes | Item no.: 50KNN Z...



EPO

Specification:  
• Knob shape Z  
• Material: Stainless steel polished

**Order example:**  
50KNN ZEPO: Knob shape Z, Stainless steel polished



## Knob shapes and finishes | Item no.: 50KNN 2...



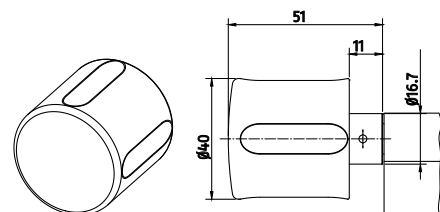
F1 F2 F3



F4 F5

Specification:  
• Knob shape 2  
• Material: anodised aluminium

**Order example:**  
50KNN 2F2: Knob shape 2, finish F2



# Technical information - accessories

## Knob shapes and finishes | Item no.: 50KNN 2...



NI



BRA



MSA

Specification:  
• Knob shape 2  
• Material: Brass



CUA



NIA



SIA

**Order example:**  
50KNN 2CR: Knob shape 2, Chrom



SIGL



SISW



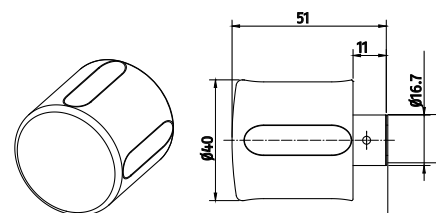
AUPO



CR



CRGL



## Knob shapes and finishes | Item no.: 50KNN H...



F1



F2



F3

Specification:  
• Knob shape H  
• Material: anodised aluminium

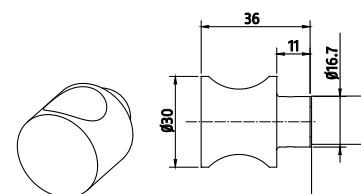


F4



F5

**Order example:**  
50KNN HF5: Knob shape H, finish F5



## Knob shapes and finishes | Item no.: 50KNN H...



NI



BRA



MSA

Specification:  
• Knob shape H  
• Material: Brass



CUA



NIA



SIA

**Order example:**  
50KNN HAP0: Knob shape H, polished gold



SIGL



SISW



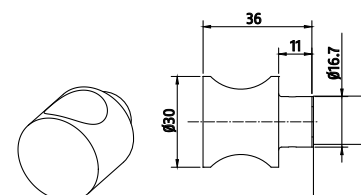
AUPO



CR



CRGL



# Technical information - accessories

## Knob shapes and finishes | Item no.: 50KNN H...



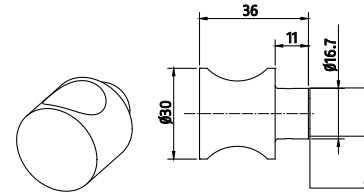
EPO

### Specification:

- Knob shape H
- Material: Stainless steel polished

### Order example:

50KNN HEPO: Knob shape H, Stainless steel polished



## Knob shapes and finishes | Item no.: 50KNN K...



NI



BRA



MSA

### Specification:

- Knob shape K
- Material: Brass

### Order example:

50KNN KNI: Knob shape K, finish nickel



CUA



NIA



SIA



SIGL



SISW



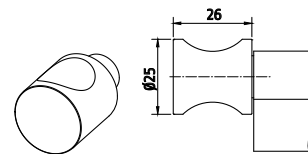
AUPO



CR



CRGL



## Knob shapes and finishes | Item no.: 50KNN S...



NI



BRA



MSA

### Specification:

- Knob shape S
- Material: Brass

### Order example:

50KNN SCR: Knob shape S, finish chrome



CUA



NIA



SIA



SIGL



SISW



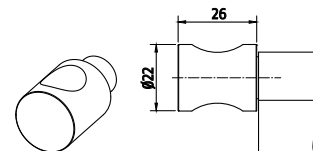
AUPO



CR



CRGL





# Technical information - accessories

## Knob shapes and finishes | Item no.: 50KNN 0...



NI



BRA



MSA

Specification:

- Knob shape 0
- Material: Brass

### Order example:

50KNN ONI: Knob shape 0, finish nickel



CUA



NIA



SIA



SIGL



SISW



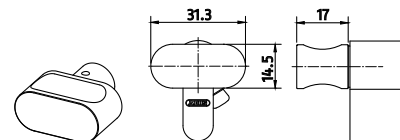
AUPO



CR



CRGL



## Knob shapes and finishes | Item no.: 50KNN PA...



F1



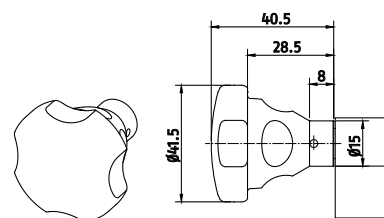
F3

Specification:

- Knob shape P
- Material: anodised aluminium

### Order example:

50KNN PAF1: Knob shape P, finish F1



## Knob shapes and finishes | Item no.: 50KFW01...



NI



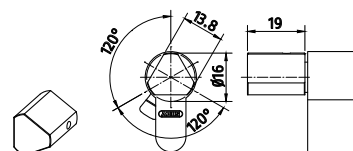
CR

Specification:

- Knob shape "fire department"
- 50KFW01...
- Material: Brass

### Order example:

50KFW01NI: Knob shape "Fire brigade", finish nickel



# Technical information - accessories

## Knob shapes and finishes | Item no.: 50KNN LP...



LP01



LP06



LP08



LP09



LP14



LP20



LP21



LP30



LP33



LP50



LP52



LP60



LP62



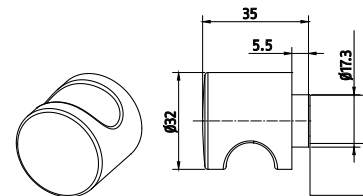
LP92

### Specification:

- Knob shape L
- Material: Polyamide
- Finishes:  
LP01 white  
LP06 green  
LP08 black  
LP09 brown  
LP14 yellow  
LP20 dark grey  
LP21 light grey  
LP30 dark red  
LP33 red  
LP50 dark blue  
LP52 blue  
LP60 dark green  
LP62 brown-olive  
LP92 anthracite

### Order example:

50KNN LP01: Knob shape L, finish white



Knob material: brass		corresponds to cylinder finishes
Colour	colour code	
Nickel Pearl	NP	
Nickel plated	NI	NI
Antique bronze	BRA	BROA
Antique brass	MA	MSA
Antique copper	CUA	CUA
Dark nickel	NIA	NIA
Antique silver	SA	SIA
Bright silver	SG	SIGL
Black silver	SSW	SISW
Polished gold	AP0	AUPO
Satin chrome	CR	CR
Polished chrome	CRG	CRGL

Knob material: Stainless steel	
Colour	colour code
Stainless steel polished	EP0

Knob material: anodised aluminium	
Colour	colour code
Aluminium	F1
Nickel silver	F2
Gold	F3
Bronze	F4
Brass polished	F5

Knob material: Polyamide	
Colour	colour code
white	LP01
green	LP06
black	LP08
brown	LP09
yellow	LP14
dark grey	LP20
light grey	LP21
dark red	LP30
red	LP33
dark blue	LP50
blue	LP52
dark green	LP60
brown-olive	LP62
anthracite	LP92

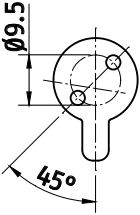
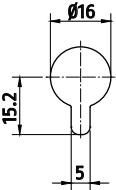
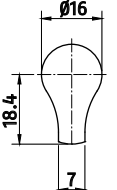
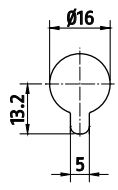
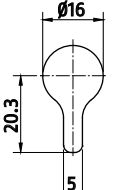
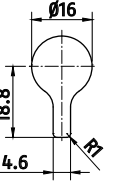
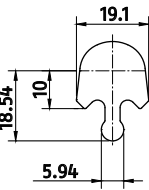
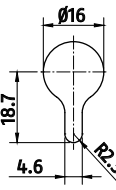
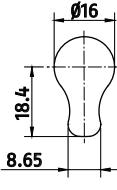
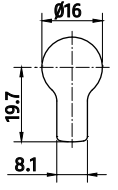
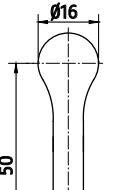
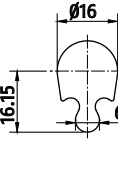
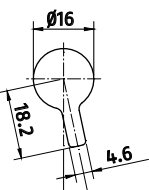
# Technical information - accessories

## Cam shapes for cam cylinders | Item no.: 50HEB...

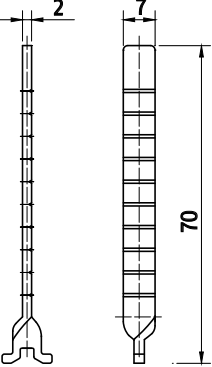
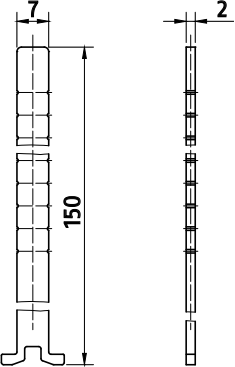
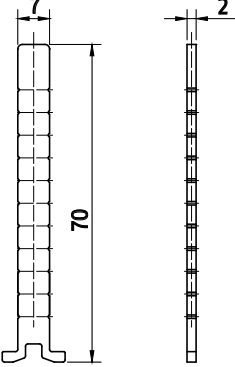
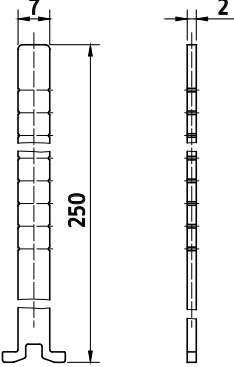
<b>Item no.: 50HEB00 L22A</b> 	<b>Item no.: 50HEB00 L22B</b> 	<b>Item no.: 50HEB00 L21D</b> 	<b>Item no.: 50HEB00 L24H</b> 
<b>Item no.: 50HEB00 L36F</b> 	<b>Item no.: 50HEB00 L37J</b> 	<b>Item no.: 50HEB00 L37L</b> 	<b>Item no.: 50HEB00 L37M</b> 
<b>Item no.: 50HEB00 L43G</b> 	<b>Item no.: 50HEB00...</b> <p>             ..L25C → A=25mm              ..L30C → A=30mm              ..L35C → A=35mm              ..L38C → A=38mm              ..L40C → A=40mm              ..L45C → A=45mm              ..L58C → A=58mm              ..L65C → A=65mm              ..L80C → A=80mm           </p>	<b>Item no.: 50HEB00...</b> <p>             ..L30E → A=30mm              ..L35E → A=35mm              ..L38E → A=38mm              ..L40E → A=40mm              ..L45E → A=45mm           </p>	<b>Item no.: 50HEB28</b> 
<b>Item no.: 50HEB01</b> 	<b>Item no.: 50HEB00...</b> <p>             ..L36K → A=36mm              ..L31K → A=31mm           </p>	<b>Item no.: 50HEB29</b> 	<b>Item no.: 50HEB26</b> for key depot 

# Technical information - accessories

## Cams for mortice cylinders | Item no.: 50SZUB...

Mounting					
 <p>Other cam shapes on demand.</p>					
Item no.: 50SZUBSZ01	Item no.: 50SZUBSZ02	Item no.: 50SZUBSZ03	Item no.: 50SZUBSZ04	Item no.: 50SZUBSZ05	Item no.: 50SZUBSZ06
					
Item no.: 50SZUBSZ07	Item no.: 50SZUBSZ08	Item no.: 50SZUBSZ09	Item no.: 50SZUBSZ10	Item no.: 50SZUBSZ11	Item no.: 50SZUBSZ12
					

## Tail pieces for rim cylinders | Item no.: 50KUS...

Item no.: 50KUS07	Item no.: 50KUS11	Item no.: 50KUS18	Item no.: 50KUS20
90° turned	extra long XL	high torsional resistance	extra long XXL
			

# Technical information - accessories

## Rosettes for cam-, furniture-, pressure- and rim cylinders | Item no.: 50R0S...

<b>Item no.: 50R0S05</b> For cam cylinder $\varnothing$ 24 mm 	<b>Item no.: 50R0S06</b> For cam cylinder $\varnothing$ 24 mm 	<b>Item no.: 50R0S08</b> For cam cylinder $\varnothing$ 24 mm 
<b>Item no.: 50R0S09</b> For cam cylinder $\varnothing$ 24 mm 	<b>Item no.: 50R0S014</b> For cam cylinder $\varnothing$ 24 mm 	<b>Item no.: 50R0S019</b> For cam cylinder $\varnothing$ 18 mm 
<b>Item no.: 50R0S03</b> For rim cylinder $\varnothing$ 25 mm 	<b>Item no.: 50R0S04</b> For rim cylinder $\varnothing$ 29,6 mm 	<b>Item no.: 50R0S07</b> For rim cylinder $\varnothing$ 29,6 mm 
<b>Item no.: 50R0S15</b> For rim cylinder "A" 	<b>Item no.: 50R0S18</b> For rim cylinder "LW01" 	<b>Item no.: 50R0S07</b> For rim cylinder "Ruko 1607" 
<b>Item no.: 50R0S01</b> For furniture cylinder 	<b>Item no.: 50R0S02</b> For pressure cylinder 	<b>Item no.: 50R0S10</b> Spacer for cam cylinder $\varnothing$ 24 mm 
<b>Item no.: 50R0S17</b> Spacer for cam cylinder $\varnothing$ 24 mm 	<b>Item no.: 50R0S16</b> Spacer for mortice cylinder 	<b>Item no.: 50R0S21</b> For mortice cylinders as replacement rosette for different mounting depths 

## Technical information - accessories

### Key strongbox for half cylinder | Item no.: 453-01 with cover

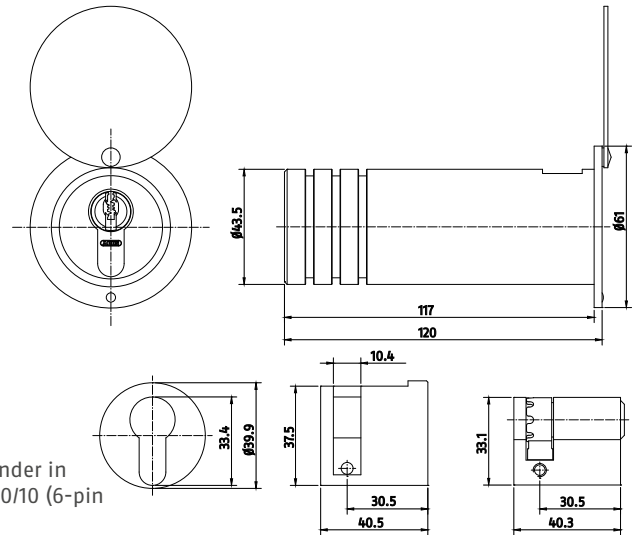


**Specification:**

- Cylinder tube material: stainless steel
- Material cylinder housing: brass, chromium-plated
- Length: 120 mm

**Attention:**

Delivered without half cylinder  
Please order the profile half cylinder in lengths 31/10 (5-pin system) or 30/10 (6-pin system).  
Please indicate if required with cover.



### Key strongbox for half cylinder | Item no.: 453-01 without cover

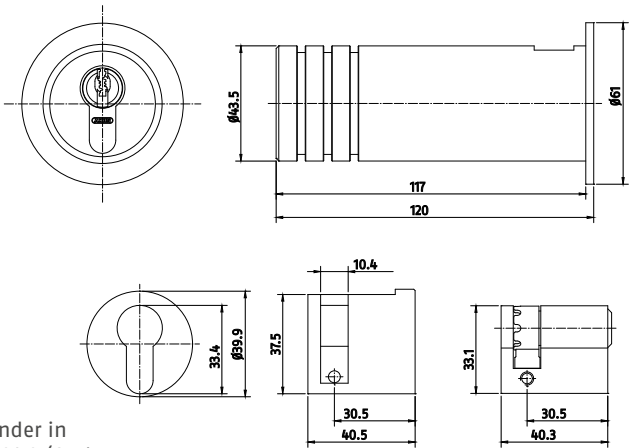


**Specification:**

- Cylinder tube material: stainless steel
- Material cylinder housing: brass, chromium-plated
- Length: 120 mm

**Attention:**

Delivered without half cylinder  
Please order the profile half cylinder in lengths 31/10 (5-pin system) or 30/10 (6-pin system).  
Please indicate if required without cover.



### Weather protection rosettes | Item no.: 50RSR01 and 50RSR02

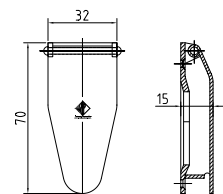


**Specification:**

- Material: Galvanised steel - Item no.: 50RSR01
- Material: Stainless steel - Item no.: 50RSR02

**Order example:**

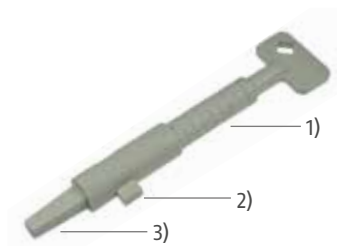
50RSR01: Galvanised steel weather protection rosettes





# Technical information - accessories

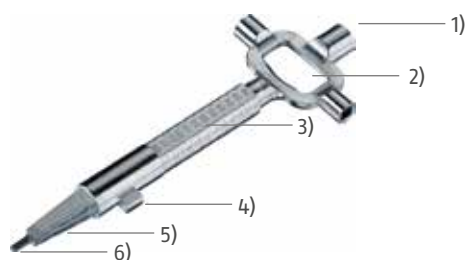
## Cylinder length measuring and installation tool | Item no.: HW-BSMMS01



### Specification:

- Material: plastic
- 1) scale to measure the required cylinder length
- 2) Euro-profile mortise lock opening tool
- 3) Multi-sized (6 - 8 mm) tool for retracting sash lock latches

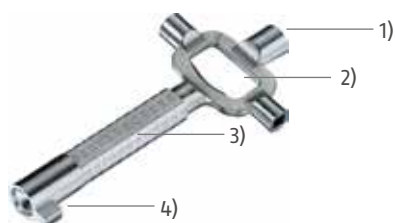
## Cylinder length measuring and installation tool | Item no.: HW-BSMMS02



### Specification:

- Material: metallic
- 1) Square pin lock key 6/7/8 mm
- 2) Bottle opener
- 3) Two-sided scale 22/75 and 25/75 to measure the required cylinder lengths
- 4) Euro-profile mortise lock opening tool
- 5) Multi-sized (6 - 8 mm) tool for retracting sash lock latches
- 6) Hexagonal key 3 mm

## Cylinder length measuring and installation tool | Item no.: HW-BSMMS03



### Specification:

- Material: metallic
- 1) Square pin lock key 6/7/8 mm
- 2) Bottle opener
- 3) Two-sided scale 22/75 and 25/75 to measure the required cylinder lengths
- 4) Euro-profile mortise lock opening tool

## Cylinder length measuring tool | Item no.: HW-ZML01



### Specification:

- Material: Plastic

## Lubricant spray non-greasing | Item no.: MHA07



### Specification:

- Content size: 50 ml

# Information

## Cylinder

All cylinders can be realised in the cylinder systems for which a price is indicated in the respective tables. An indicated price means "available". An indicated \* means "on request". This requires a technical clarification, please inform us before placing your order.  
The indicated price refers to the basic length of the cylinder.

The feature special cylinder requires a reduction of locking elements, at least with interior rim cylinders. Furthermore, we use for special cylinder types the 6-pin length grid also for 5-pin cylinders. An appropriate reference is indicated in the price table. Please ask us for further technical details.

All profile cylinders can be produced according the length tables on pages 96/97.

- **5-pin cylinders** = item no ...3...  
Basic length: 26,5 mm  
(including 31,5 mm without surcharge)
- **6-pin cylinders** = item no ...4...  
Basic length: 30,5 mm

## Keys

The price of each cylinder contains 3 individual keys. Additional keys are charged.

In case of locking systems we produce and deliver **only the keys that are indicated in the matrix**. Therefore, please always indicate the required number of keys. Superior keys are not included in the cylinder price.

Not required keys are reimbursed.

Please always kindly indicate, when ordering replacement cylinders for an existing master key suite, the quantity of individual differ keys that shall be delivered with the corresponding position(s). When no key quantities are indicated, the cylinders shall be delivered without keys.  
When reordering cylinders or replacements to existing standard differs, cylinders will be delivered by default with 3 keys each. In case you require a different number of keys per cylinder, please indicate it in the order.

## Ordering notes

Please indicate on your order if it should be fabricated in **factory profile or reserved profile**. In case of a reserved profile please indicate if you would like the keys to be produced with or without individual stamping.

When planning or placing an order for a new key system please bear in mind later **extensions**.

Re-orders of keys or cylinders as well as information and other services are only executed by **presenting of the security card** or orderslip according to DIN 18252 point 3.17.

The **delivery of old profiles** (like e.g. N, K, H, D or Z) only on request and for certain products.

# Information

## Order example:

Profile double cylinder  
6 pins

system Bravus.4000 **B4L410 - 3030 BS01** with increased drill protection

length 30,5 / 30,5 mm

---

system Vitess.2000 **V2L480 - 48** shackle nano protected,  
height 48 mm

Padlock  
6 pins

---

Profile half cylinder  
6 pins

system Integral **J452 - 3010 VDS3** VdS \*\*\*- approved

length 30/10 mm

---

system XY14 Deltus **XYD352 - 3110** length 31,5 / 9,8 mm

Profile half cylinder  
5 pins

# Product, guarantee and liability information

## 1. Product information and intended use

A locking cylinder in line with this definition is a component which is generally replaceable in specially designed locks, clasps, devices, doors and related products. Other locking cylinder models must be handled analogously. In order to be used properly, a locking cylinder is assigned at least one key. Unless otherwise explained, terms relating to locking cylinders and locking systems are defined and/or illustrated in DIN 18252 / EN 1303. With respect to these terms, the following must be taken into consideration for intended use:

- 1.1 Locking cylinders can only be fitted into locks, clasps, devices, etc. unconditionally if these locking cylinders are subject to a standard (e.g. DIN 18252) and these locks, clasps, devices, etc. are exclusively designed for locking cylinders based on this standard. In all other cases, the manufacturer, processor or user of these keys, clasps, devices, etc. must be certain that the locking cylinder they have selected is suitable for fitting and for the intended use.
- 1.2 For safety reasons, locking cylinders may not protrude more than 3 mm from the protective clasp in which they are held. The level of burglary prevention measures is based on the requirements defined (see DIN 18252 / EN 1303).
- 1.3 The locking cylinders must be fitted such that there are no external forces acting on the locking cylinder other than at the designated fixing points and during normal use. Equally, when the key is withdrawn, there must be no external forces transferred to the locking bit or the locking lever in the direction of rotation. This is guaranteed in particular by accurate alignment of locks and clasps to each other. The fixing screw for attaching the locking cylinder must not be tightened to greater than 1.2 Nm (= hand-tightened).
- 1.4 Specially designed locking cylinders must be specified for damp and cold rooms, if subjected to direct weathering, close to the sea and when used in aggressive environments which accelerate corrosion. The same applies to locking cylinders which are used in particularly dusty environments.
- 1.5 Normally, a profile cylinder with two locking sides cannot be operated with a key if a key is already inserted in the opposite side of the cylinder. But if this function is required, a locking cylinder with appropriate functionality (emergency and danger function) should be selected.
- 1.6 If the key is used properly, the torque is only transferred to the key if a key is inserted fully into the key channel of the locking cylinder as far as it will go.
- 1.7 The locking cylinder and key together form a functional unit. Our guarantee applies exclusively to our original products.
- 1.8 Any additional keys we provide for locking cylinders must be checked for proper functionality in the relevant locking cylinder immediately on receipt.

## 2. Misuse

Misuse - i.e. non-intended use of the product - of the locking cylinder or key shall be deemed to have occurred if:

- 2.1 A tool such as a nail, tongs, keyring or similar is applied to the key bow or key head in order to increase the torque. In the interests of locking safety, the key channel and therefore the key shaft are deliberately kept as slim as possible so that the torque can only be transferred directly by hand onto the key head. The use of key caps specific to ABUS Pfaffenhain (e.g. the Combi Cap and the Skuni Cap) is allowed.
- 2.2 The key is used as a handle to move the door leaf. The key is not designed to replace the clasp in passageway doors (using the head, latch, handle, etc.).
- 2.3 The locking cylinder is operated with a key which is forged, bent, dirty, damaged or improperly duplicated.
- 2.4 An attempt is made to actuate the locking cylinder with unlocking tools, aids or other non-original copy keys.
- 2.5 There are foreign bodies in the key channel or on the key itself or the care instructions have not been complied with.

## 3. Product specifications

If the product specifications are not set out in our catalogues, brochures, specifications documents, etc., the requirements for the individual locking cylinders must be agreed with us. Standard DIN 18252 / EN 1303 „Locking cylinders for door locks“ can provide guidance here.

This standard defines the basic requirements and additional requirements for profile cylinder with single-row pin holders. The content of the norm can also be applied analogously to other locking cylinders. The usability of locking cylinders depends among other things on how often they are used, how they are used, on ambient conditions and care. Locking cylinders and keys must be replaced if, despite proper care, problems arise, especially when inserting or withdrawing the key.

## 4. Product maintenance

Locking cylinders must be treated with the care products we recommend (e.g. PS88) at least twice a year - or more, depending on frequency of use. Resinous products must not be used on locking cylinders. Only detergents which do not contain ingredients which accelerate corrosion must be used. Please do not use graphite! Always avoid using different care products (e.g. PS88) when caring for a locking cylinder as this could under some circumstances cause not insignificant malfunctioning.

## 5. Information and instruction duties

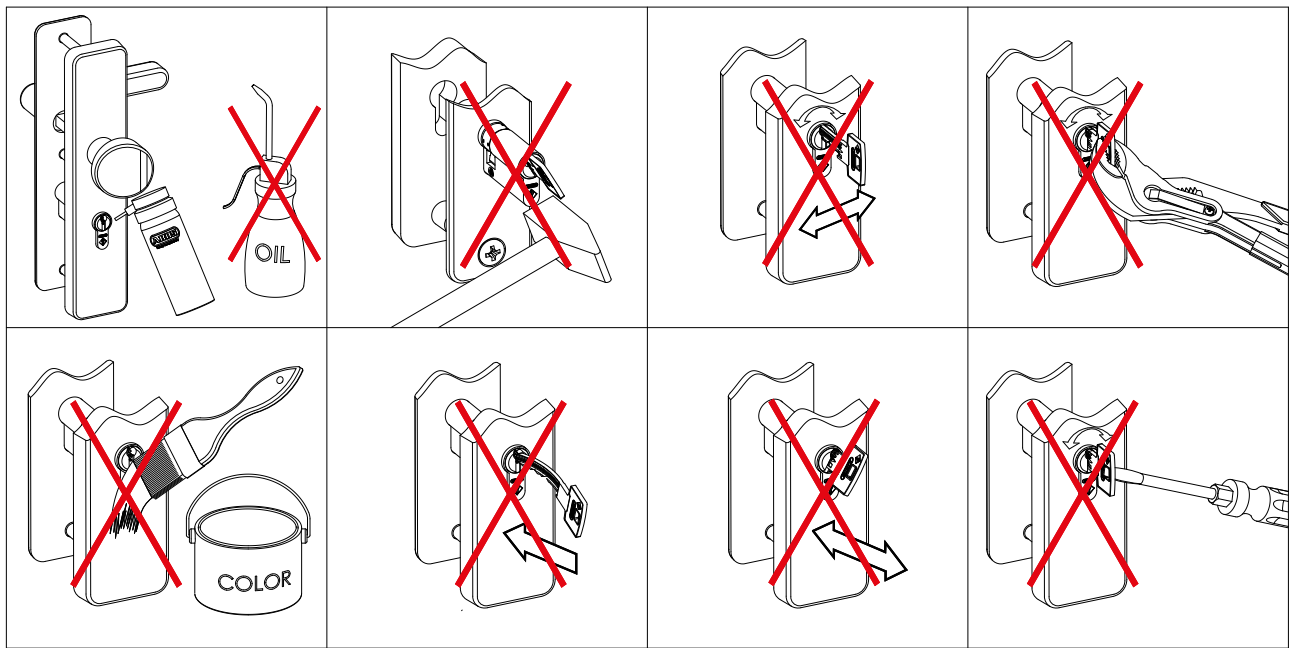
The following documents and services are available to specialist retailers, locksmiths, architects, planners, advisory bodies, fitters and users to assist in the fulfilment of their information and instruction duties in line with the Product Liability Act:

- Catalogues, brochures
- Invitation to tender texts, quotation documents, locking plans
- DIN 18252 (sold exclusively by Beuth Verlag GmbH, Berlin)
- EN 1303 (sold exclusively by the European Committee for Standardization, Brussels)
- Fitting, operation and care instructions.

For selecting locking cylinders and for fitting, operation and care:

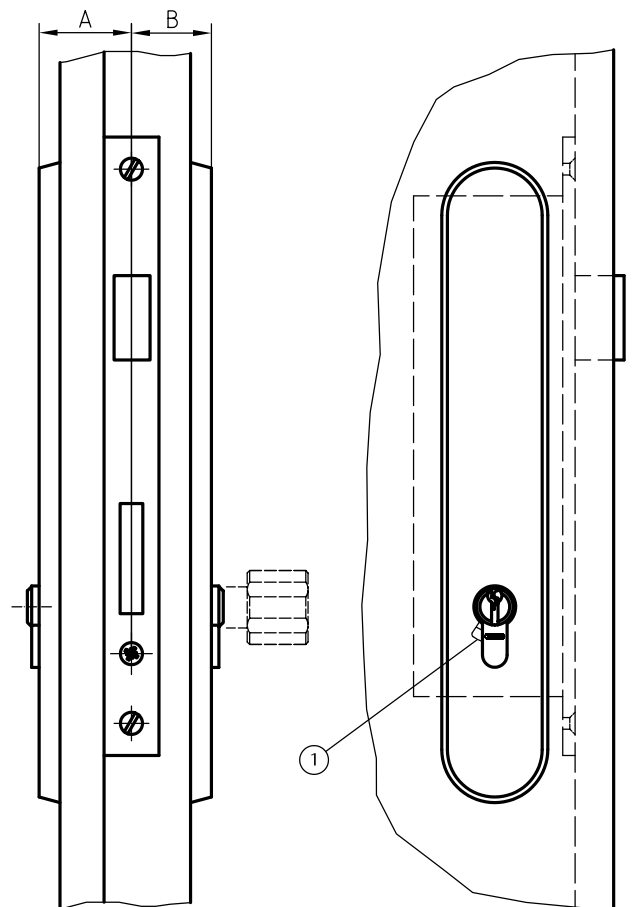
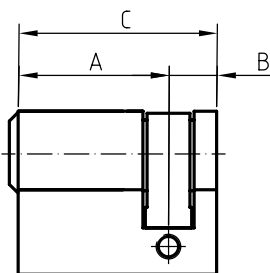
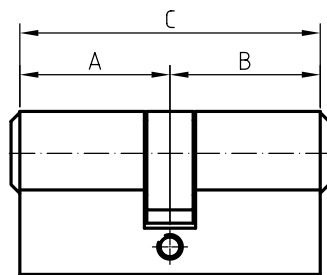
- 5.1 Architects, planners and advisory bodies are bound to request and comply with all the necessary product information from us.
- 5.2 Specialist retailers are bound to comply with the product information and instructions in the catalogues and price lists and especially to request any necessary instructions from us and pass them on to fitters and users.
- 5.3 Fitters are bound to comply with the product information and especially to request operating and care instructions from us and pass them on to clients and users.

## Product, guarantee and liability information



For the assembly of profile cylinders we recommend our assembly tool MHA09.

The fixing screw for the fixation of the cylinder can only be tightened with max. 1,2 Nm (= hand-tight).



A - Exterior length  
B - Interior length

- ① The cam should point towards the door hinges when the key is removed.

# Terms and Conditions

## General

1. Quotations, tenders or orders with no stipulated acceptance period shall not be binding.
2. The present Terms and Conditions shall be binding if they have been declared applicable either in our tender, product/price list, or in our confirmation of the order. Terms and conditions of the Buyer that diverge from the present General Terms and Conditions shall not be binding unless and only to the extent they have been expressly accepted by us in writing.
3. Save as provided otherwise, advertising literature and catalogues shall not be binding. Data contained in technical documents shall be binding only if expressly guaranteed.

## Prices

1. Save as provided otherwise, our prices are deemed to be in Euro.
2. If the conditions on which the formation of our prices was based on, in particular currency changes or governmental taxes, charges, fees, customs duties, etc., were to vary between the submission of the tender and the contractually agreed delivery date, we shall be entitled to adapt our prices and other terms of supply to prevailing circumstances.

## Terms of Payment

1. Unless stated otherwise, our invoices shall be due for payment immediately and shall be settled immediately, without any cash discount or other deduction allowed. Payments shall be made into one of our bank accounts as printed on our invoices. Payment shall be deemed to have been made when the amount due has been credited to any one of these accounts in Euros and is at our free disposal. Payment of our invoices must be made in full and reducing payment due against counter-claims raised by the Buyer is not admissible.
2. If the Buyer is late with respect to the agreed terms of payment, he shall be in default without reminder and shall be liable to pay default interest, from the 31st day counting from the date of the invoice, at a rate of 8% p.a.

## Reservation of Title

1. We shall remain the owner of all supplied products until we have received payment in full of the agreed amount. On conclusion of the Contract, the Buyer authorizes us to have said reservation of title entered pursuant to the laws of the countries concerned, in the public registers kept for this purpose by the competent authorities of the respective countries, and to complete all relating formalities. During the whole period of the reservation of title, the Buyer shall, at his expense, maintain the supplies, take out all necessary insurance with a view to protecting them, for our benefit, against theft, total loss, fire, water and other risks, and take all further measures in order to ensure that our title is not prejudiced in any way whatsoever.
2. If the supplied products were delivered prior to payment of all amounts owed by the Buyer under the Contract, we shall retain title to the product until payment in full insofar as this is admissible under the law in the area of application of which the supplied product is located. If this law does not permit the reservation of title but allows us to reserve other security interests in the supplied product equaling the German retention of title, we may exercise all rights of this kind. The Buyer is obliged to assist us in any action taken to protect our title or the right to the product which replaces such title.

## Liability

Save as provided otherwise, the Buyer shall have no claims other than those expressly stated in the present General Terms and Conditions, irrespective of the grounds they may be based on. Thus, the Buyer shall raise no claim for damages or a reduction in price, and he shall have no right to withdraw from or terminate the Contract, unless such claim or right is expressly provided for under the General Terms and Conditions. The Buyer shall on no account have a claim for compensation of damage that does not affect the products as such, as for instance loss of production, loss of use, lost orders, profit loss or any other direct or consequential damage. This exclusion of liability shall not apply in the event of gross negligence, unlawful intent or insofar as mandatory law provides otherwise.

## Compliance with Export Control Regulations

1. Our obligation to fulfill this agreement is subject to the proviso that the fulfillment is not prevented by any impediments arising out of national and international foreign trade and customs requirements or any embargos or other sanctions, in particular export control provisions.
2. If the Buyer transfers goods delivered by us to a third party worldwide, the Buyer shall comply with all applicable national and international (re-) export control regulations. In any event the Buyer shall comply with the (re-) export control regulations of Switzerland, the Federal Republic of Germany, of the European Union and of the United States of America.
3. If required to conduct export control checks, the Buyer, upon our request, shall promptly provide us with all information pertaining to particular end customer, destination and intended use of goods provided by us, as well as any export control restrictions existing.
4. The Buyer shall indemnify us and hold us harmless from and against any claim, proceeding, action, fine, loss, cost and damages arising out of or relating to any non-compliance with export control regulations by the Buyer, and the Buyer shall compensate us for all losses and expenses resulting thereof, unless such non-compliance was not caused by fault of the Buyer. This provision does not imply a change in burden of proof.

## Applicable Law

The present contractual relationship is governed by German substantive law. The application of the United Nations Convention on Contracts for the International Sale of Goods (the Vienna Law on the International Sale of Goods) of April 11, 1980, shall be excluded.

## Jurisdiction

The place of jurisdiction for the Customer and for us shall be Wetter (Ruhr), Germany.



**ABUS I Pfaffenhain GmbH**  
**[www.abus.com](http://www.abus.com)**

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Germany

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[info@abus-pfaffenhain.de](mailto:info@abus-pfaffenhain.de)

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