



## Mechanical locks

Mechanical precision in high-security technology.

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Wittkopp is member of ESSA, EHI and VfS  
Certified by DIN EN ISO 9001



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## WITTKOPP key locks - "Made in Germany" and safer than required by the norm.

When storing money and valuables, not only the quality of the safe is important. The lock has to open and close reliably. A consistent and failure-free functionality of the locks requires a high-quality choice of materials and manufacture, but most of all experience. High-security locks made by WITTKOPP unite these essential criteria for more than 150 years and have gained an excellent reputation worldwide.

Double-bit keys made by WITTKOPP surpass the norm-required closure variations in every class of locks. In other words, WITTKOPP locks are considerably more secure than required by the norm. Depending on the number of closure variations reached, double-bit locks are classified in different security classes.

WITTKOPP follows the relevant European standards (EN 1300) and the testing standards of internationally recognised testing institutes, such as the renowned German testing institute VdS (VdS 2396).

### Number of codes / code variations

Lock classification according to EN 1300 (VdS 2396)	Number of code variations standard	Number of code variations WITTKOPP 16- / 18-series	Number of code variations WITTKOPP 26-series
A (1)	25,000	5,700,000	800,000
B (2)	100,000	100,000,000	-
C (3)	1,000,000	90,000,000,000	-

### Select your lock carefully.

Another important security criterion is the protection against manipulation of double-bit keys. Depending on the precision of manufacturing, safe locks can be manipulated easily or rather time consuming. Especially cheap copies are very prone to simple attacks of picklocks. Due to WITTKOPP manufacturing precision, which is within the tightest tolerances, it is very difficult to ma-

nipulate our products. Customers and independent experts confirm this to us repeatedly, both nationally and internationally. This positive feedback motivates us to remain true to our high quality standards also in the future.

## Criteria for manufacturers of safes and security door for choosing the right locks.

The resistance grade of the safe or the security door defines the security class and the number of high-security locks to be used.

The correlation between the resistance grade of the safe and the security class, as well as the number of locks to be installed in the safe can be seen in the table below:

Locks of classes A / 1 up to C / 3 that are designed for the use with boltworks can be found on pages 10-29. These locks are especially suited for the use in safes with high security requirements, such as ATMs, automated cash registers, cash recyclers and deposit systems. The suitable boltworks for your safes you will also find in our product range.

### Lock requirements of safes and security doors

Resistance grade safes / door EN 1143-1 (VdS 2450)	Lock class of high-security lock EN 1300 (VdS 2396)	Number of locks to use
S1 to Grade II	A (1)	1
Grade III	B (2)	1
Grade IV to Grade V	B (2)	2
Grade VI to Grade X	C (3)	2
Grade XI to Grade XII	C (3) or D (4)	2 or 3
Grade XIII	D (4)	2

### The right combination of lock and boltwork.

Furthermore, one has to differentiate between locks suited for operation in combination with boltworks and the ones that close the safe directly without the installation of an additional boltwork and therefore are more cost efficient.

High-security locks that close directly are commonly used in basic safes with resistance grades S1 and S2 (Examples gun cabinets and furniture safes). Wittkopp offers two lock series for this application range: Series 160 / 1639 and 2608 (page 10 – 21).

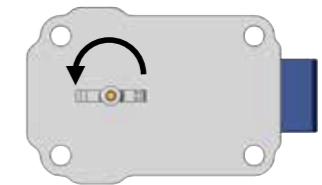
If you cannot find a suitable product in our standard range, the engineers at WITTKOPP are always in a position to develop a customised product for you.



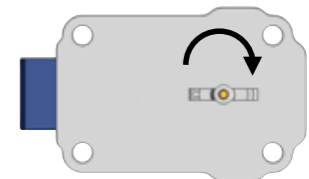
### Opening direction of the safe and mounting situation of lock.



Hinge on the left = Left-hand lock  
Turning direction counter-clockwise



Hinge on the right = Right-hand lock  
Turning direction clockwise



## The key to longevity and lifetime costs of a lock: the quality of the double-bit key.

Due to the high-quality manufacturing, mechanical high-security locks made by WITTKOPP are nearly indestructible if handled correctly. If a lock is frequently opened, the keys made of simple materials such as die-cast zinc can wear relatively easily. Because we are interested in sustainable customer satisfaction, we recommend the use of high quality and wear-resistant materials of keys for highly frequented

safes. Our master-key locks of the series H1609 and H1819 (page 38-41) safely store the weapons of police and security forces worldwide and prove themselves due to their robust keys since many years in this demanding application.

LOCKS VdS CLASS 1

Lock 1609



Lock 1639



Lock 2608



Lock 2648



LOCKS VdS CLASS 2

Lock 1821



Combination lock 7800



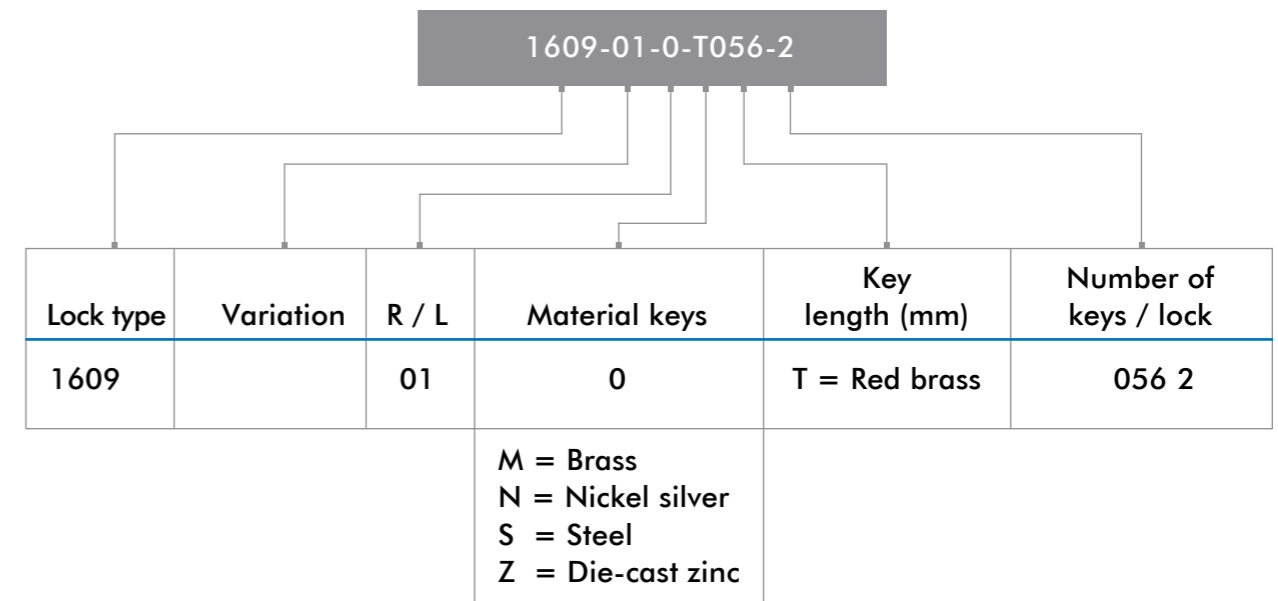
LOCKS VdS CLASS 3

Lock 1824



Composition of article numbers.

Exemplified on the lock 1609



The modular construction kit for safe locks of the 16th series.

**Characteristics**

- 3-sided blocking by optional use of extension latch
- Adjustable by 3 different covers
- Cover with optionally chromated decorative ring around the key hole

**Application range**

Inner compartments and simple deposits that require the use of robust locks

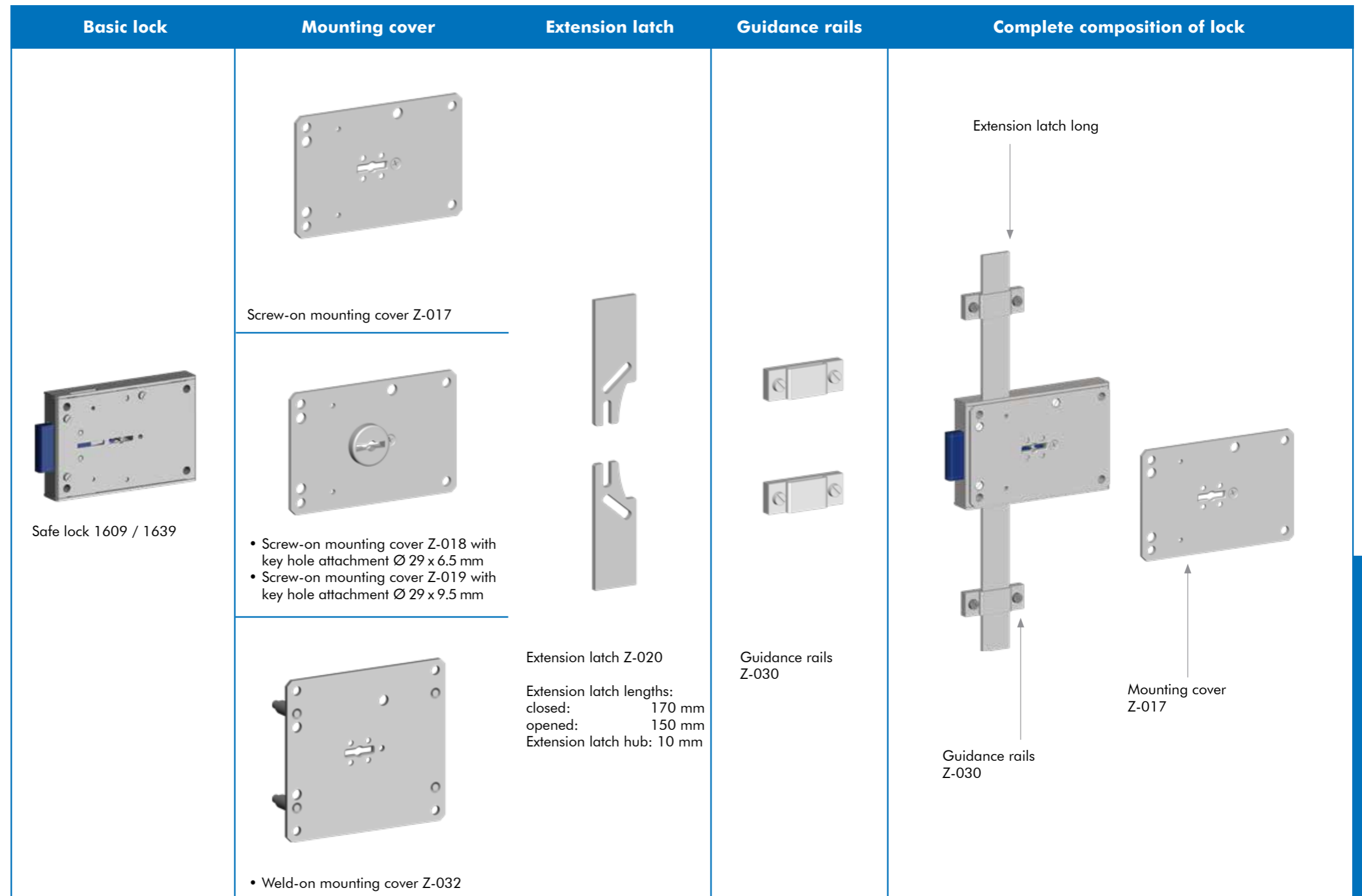
**Scope of delivery**

The basic lock consists of a lock body made of galvanized steel components and the standard is delivered with 2 double-bit keys made of red brass. Depending on the application, the lock can be upgraded by additional modular components.

**Details**

The mounting cover can optionally be equipped with two different long chromated key hole attachments (Z-018 and Z-019), which offer precise key guidance and optically enhance the safe.

By using the additional guidance rails (Z-030) even long extension latches can be used and guided precisely.



## The 3-sided direct locking in the construction kit system.

### Characteristics

- Extra wide bolt
- Protected against scanning and knocking off
- Theoretical number of codes: 5,764,801

### Composition of lock

- Lock: right-hand / left-hand
- Lock case: steel, galvanised
- Bolt: deadbolt, steel, galvanised
- Bolt hub: 12 mm
- Mounting cover: separate
- Levers: 9
- Prepared for arrestable extension latch
- Extension latch hub: 10 mm
- Fixing points: deviation from standard

### Mounting covers

- 4 different cover types

### Certification

- EN 1300 A
- VdS Class 1
- BSI listed

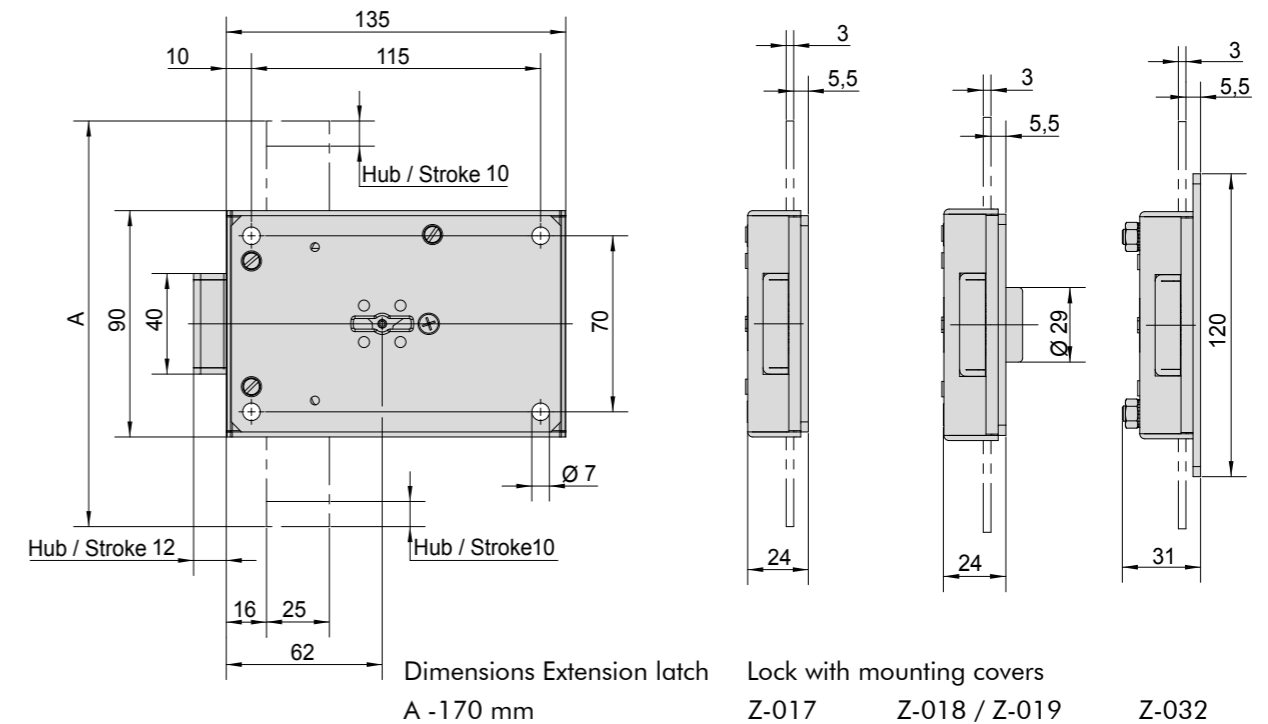
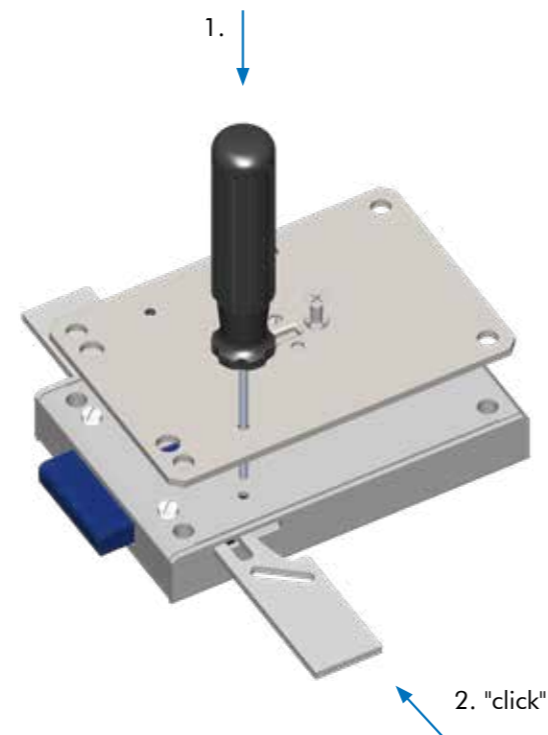
### Application range

- Safety cabinet according to EN 11450 S1, S2
- Safes according to EN 1143-1 Grade 0 to II
- Examples
  - Hotel safes, small safes and home safes
  - Gun cabinets
  - Inner compartments and drawers



Lock 1609-01-T056-2, mounting cover Z-017, extension latch Z-020

Installation of arrestable extension latch



### Basic lock 1609

Article number	Key		Material	Length (mm)	Number
	Right-hand	Left-hand			
1609-01-0-T056-2	•		Red brass	56	2
1609-01-1-T056-2		•	Red brass	56	2
1609-01-0-M072-2	•		Brass	72	2
1609-01-1-M072-2		•	Brass	72	2

### Mounting covers

Article number	Material	Fixing
Z-017	Steel chromated	Screw-on
Z-018	Steel chromated, with key hole attachment $\varnothing 29 \times 6.5$ mm	Screw-on
Z-019	Steel chromated, with key hole attachment $\varnothing 29 \times 9.5$ mm	Screw-on
Z-032	Steel chromated	Weld-on

### Accessories

Article number	Description
Z-020	Extension latch: 170 mm
Z-030	Guidance rails for extension latches
ZS-T056-00	Lever packs for right-hand lock: with 2 keys, red brass, 56 mm
ZS-T056-01	Lever packs for left-hand lock: with 2 keys, red brass, 56 mm

## The modular lock with time delay.

### Characteristics

- Mechanical time delay lock
- Extra wide bolt
- Protected against scanning and knocking off
- Theoretical number of codes: 5,764,801

### Composition of lock

- Lock: right-hand
- Lock case: steel, galvanised
- Bolt: deadbolt, steel, galvanised
- Bolt hub: 12 mm
- Mounting cover: separate
- Levers: 9
- Prepared for arrestable extension latch
- Extension latch hub: 10 mm
- Fixing points: deviation from standard
- Time delay lock 1639 consists of lock and battery compartment with push button

### Mounting covers

- 4 different cover types

### Functionality

- Electronic time delay (from 3 sec to 15 min) and release window (from 10 sec to 5 min) manually adjustable
- After turning the key or pushing the button the time delay is triggered

### Certification

- EN 1300 A
- VdS Class 1
- BSI listed

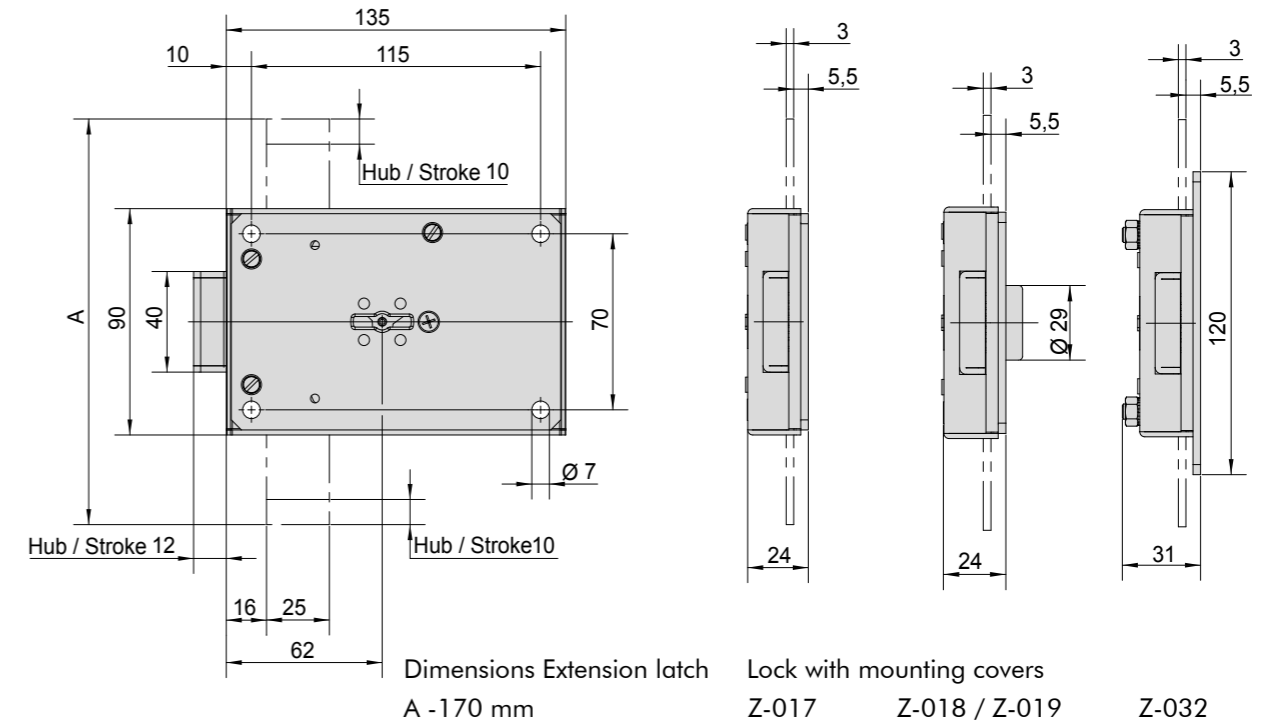
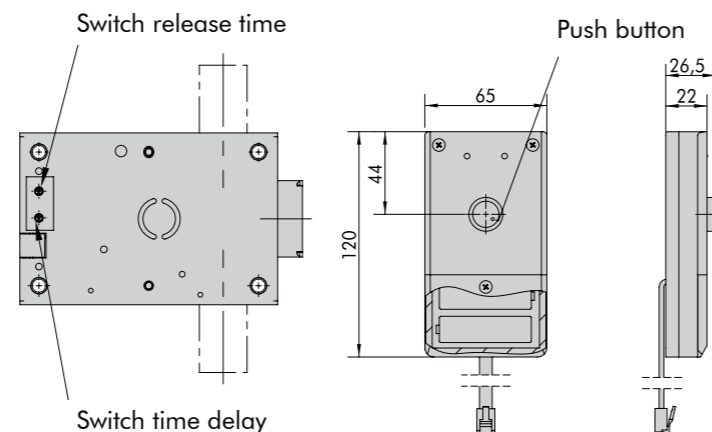
### Application range

- Safety cabinet according to EN 11450 S1, S2
- Safes according to EN 1143-1 Grade 0 to II
- Examples
  - Inner compartments and drawers with time delay



Lock 1639-01-0-T056-2, mounting cover Z-017, extension latch Z-020, battery compartment 1639-201-0

Lock and battery compartment



### Basic lock 1639

Article number	Material	Length (mm)	Number
1639-01-0-T056-2	Red brass	56	2
Z-031	Battery compartment with push button: cable length 250 mm		

### Lock covers

Article number	Material	Fixing
Z-017	Steel chromated	Screw-on
Z-018	Steel chromated, with key hole attachment $\varnothing 29 \times 6.5$ mm	Screw-on
Z-019	Steel chromated, with key hole attachment $\varnothing 29 \times 9.5$ mm	Screw-on
Z-032	Steel chromated	Weld-on

### Accessories

Article number	Description
Z-020	Extension latch: 170 mm
Z-030	Guidance rails for extension latches
ZS-T056-00	Lever packs for right-hand lock: with 2 keys, red brass, 56 mm



## Flexibility for individual installation situations.

### Characteristics

Highly flexible by

- 4 different lock types
- 3 different lock and mounting covers
- 3-sided blocking by additional use of extension latches

The different lock types are mounted with one of the three covers to the door of the safe.

### Lock cover 2608-D1

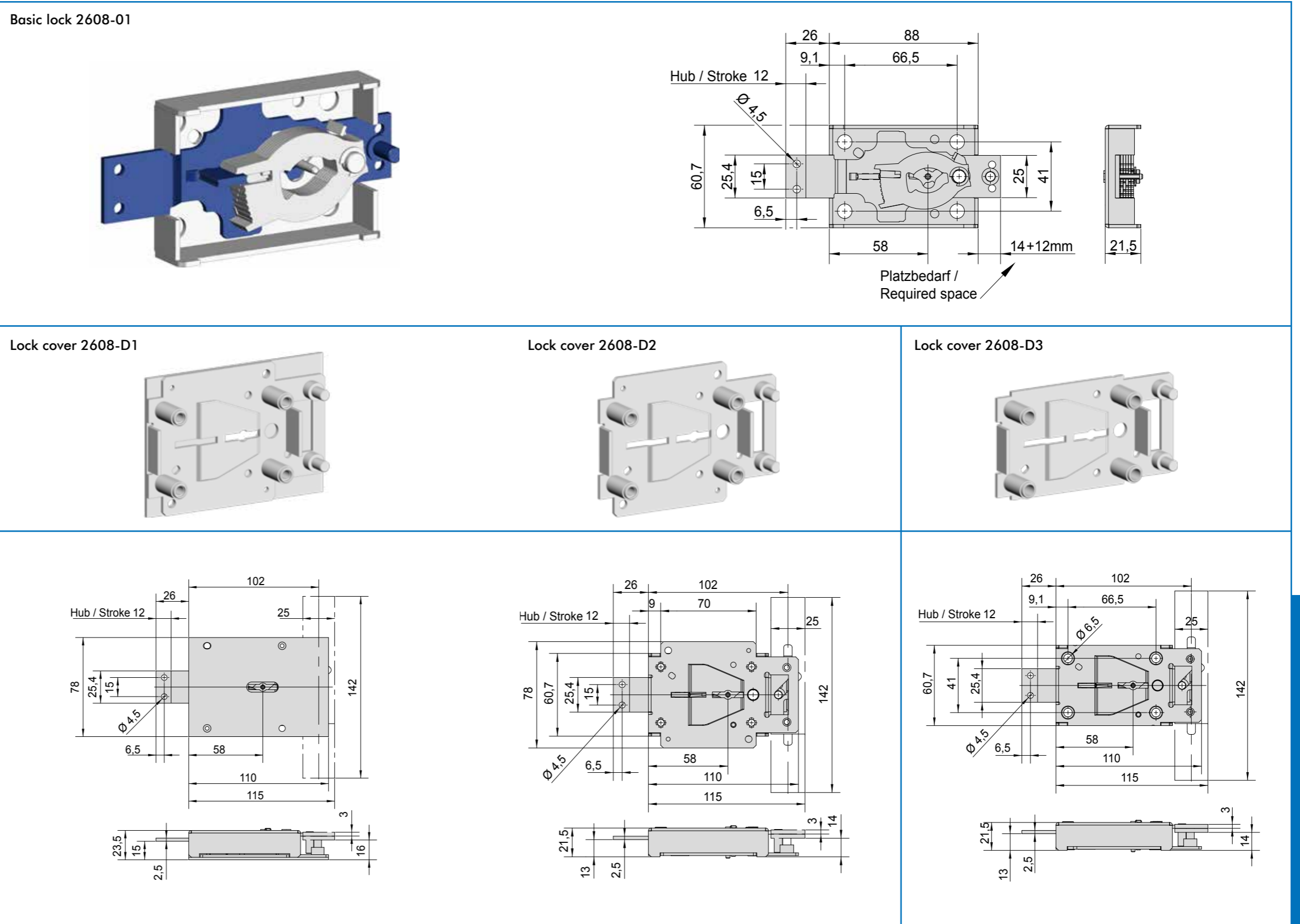
For welding with integrated anti-drilling plate. Therefore, the lock is protected against manipulation from the outside. The cover is welded onto the door together with the anti-drilling plate and serves as mounting plate. The lock is then screwed on the welded cover.

### Lock cover 2608-D2

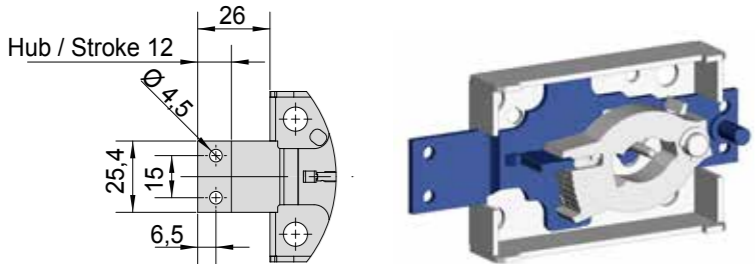
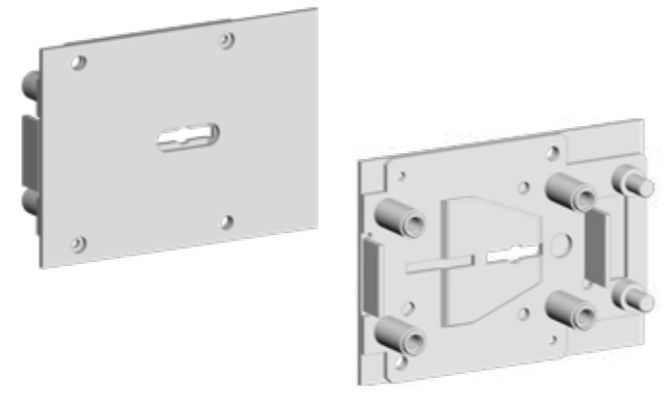

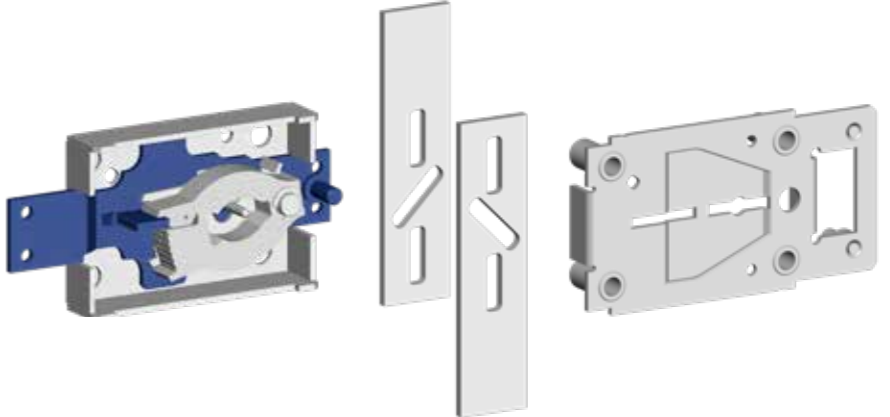
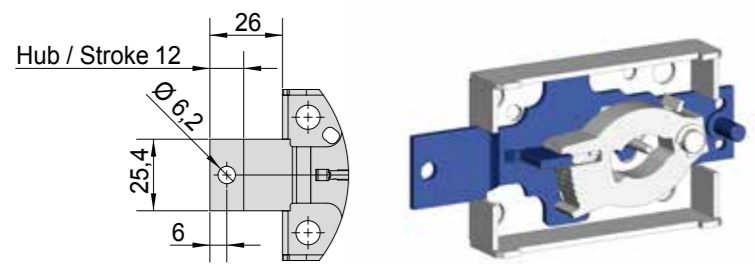
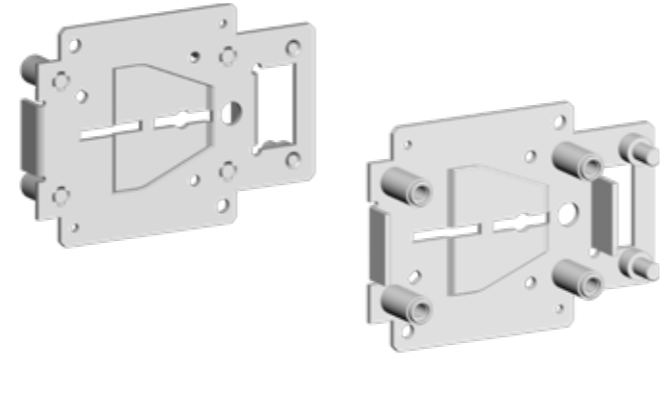

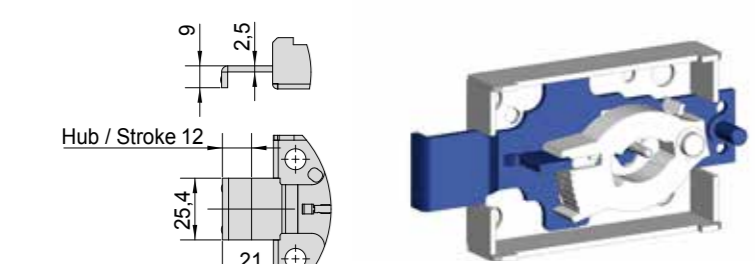
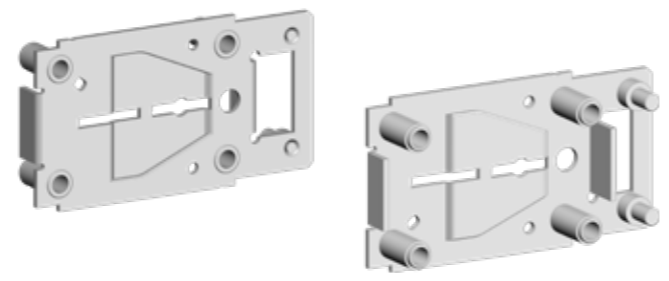


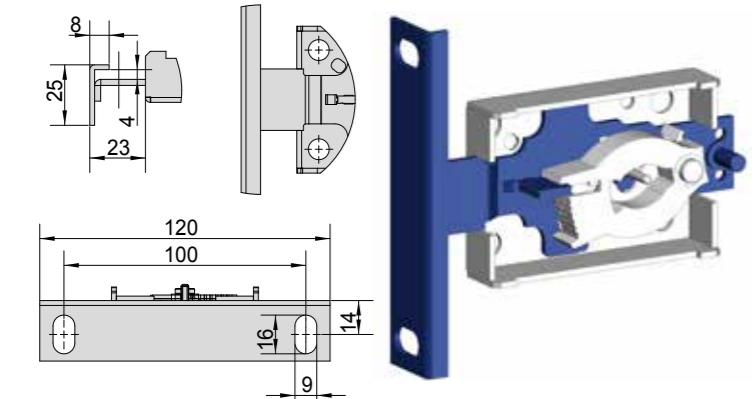
Identical in construction like D1 for welding without anti-drilling plate.

### Lock cover 2608-D3

For screwing on with the standard fixing points. Lock cover and basic lock are screwed onto the door by 4 M6 screws. Because the lock fixing plate is only screwed on, the electronic lock PRIMOR 100 can easily replace the lock 2608. All measurements are identical.



Combination possibilities for the series 2608.

Basic lock	Cover versions	Extension latch	Mounting example
 <p><b>Basic lock 2608-01</b> 2 drillings in the bolt for fixing a bolt ledge</p>	 <p><b>Lock cover 2608-D1</b> Lock cover, weld-on with hardened manganese steel, simultaneously serves as fixing plate and anti-drilling plate</p>		
 <p><b>Basic lock 2608-02</b> 1 drilling in the bolt for attaching and gearing a blocking mechanic</p>	 <p><b>Lock cover 2608-D2</b> Lock cover, weld-on: serves as fixing plate</p>	<p><b>Extension latch P-100-50-00</b> Extension latch length locked: 142 mm Extension latch length opened: 118 mm Extension latch hub: 12 mm</p>	<p><b>Mounting</b> Base 2608-01 with lock cover 2608-D3 and extension latch P-100-50-00</p> 
 <p><b>Basic lock 2608-03</b> Angled bolt for welding on a bolt ledge</p>	 <p><b>Lock cover 2608-D3</b> Lock cover, screw-on: simple exchange with electronic lock PRIMOR 100 due to identical measurements of lock covers</p>	<p><b>Mounting</b> Base 2608-01 with lock cover 2608-D3</p> 	
 <p><b>Basic lock 2608-04</b> Bolt with weld-on bolt ledge</p>			

The all-in-one solution: robust and modular.

**Characteristics**

- For small cabinets to avoid a boltwork
- Protected against scanning and knocking off
- Theoretical number of codes: 823,543

**Composition of lock**

- Lock: right-hand
- Lock case (open): steel, galvanised
- Bolt: flat bolt, steel, galvanised, prepared for arrestable extension latch
- Bolt hub: 12 mm
- Extension latch hub: 12 mm
- Lock cover: separate
- Levers: 8
- Fixing points: standard

**Certification**

- EN 1300 A
- VdS Class 1
- A2P Niveau A (E)
- IMP Class A
- ECB•S

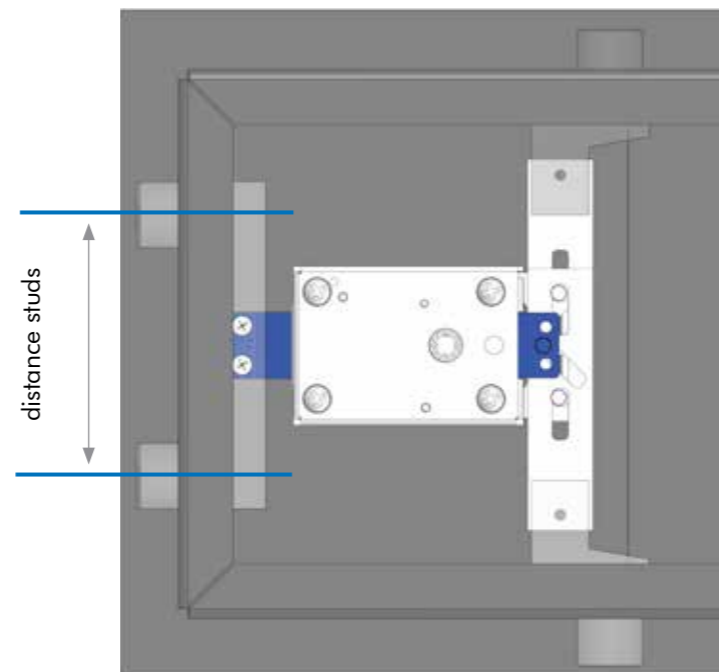
**Application range**

- Safety cabinet according to EN 11450 S1, S2
- Safes according to EN 1143-1 Grade 0 to II
- Examples
  - Hotel safes, small home safes
  - Gun cabinets
  - Inner compartments, drawers, shelf doors
  - Furniture safes



Lock 2608-01-0-Z065-2,  
lock cover 2608-D1, extension latch P-100-50-00

Installation example of basic lock 2608-01



**Basic lock 2608**

Article number	Base	Flat bolt holes	Bolt ledge (mm)	Distance studs (mm)	Key	
					Material	Length (mm) Number
2608-01-0-Z065-2	1	2	-	-	Die-cast zinc	65 2
2608-01-0-Z095-2	1	2	-	-	Die-cast zinc	95 2
2608-02-0-Z065-2	2	1	-	-	Die-cast zinc	65 2
2608-02-0-Z095-2	2	1	-	-	Die-cast zinc	95 2
2608-03-0-Z065-2	3	-	-	-	Die-cast zinc	65 2
2608-03-0-Z095-2	3	-	-	-	Die-cast zinc	95 2
2608-04-0-Z065-2	4	-	120	100	Die-cast zinc	65 2
2608-04-0-Z095-2	4	-	120	100	Die-cast zinc	95 2

**Lock covers**

Article number	Material	Fixing
2608-D1	Mounting plate (steel) with anti-drilling plate (hardened manganese steel)	Weld-on
2608-D2	Mounting plate (steel)	Weld-on
2608-D3	Mounting plate (steel)	Screw-on

**Accessories**

Article number	Description
P-100-50-00	Extension latch: 142 mm
ZS-Z065-00	Lever pack: with 2 keys, die-cast zinc, 65 mm
ZS-Z095-00	Lever pack: with 2 keys, die-cast zinc, 95 mm

OPTIMA: the optimal value for money.

**Characteristics**

- Surpasses the number of required code differences by a multiple
- Protected against scanning and knocking off
- Theoretical number of codes: 823,543

**Composition of lock**

- Lock: right-hand
- Lock case: die-cast zinc
- Bolt: deadbolt with 2 holes, die-cast zinc
- Bolt hub: 12 mm
- Lock cover: screwed
- Levers: 8
- Fixing points: standard

**Certification**

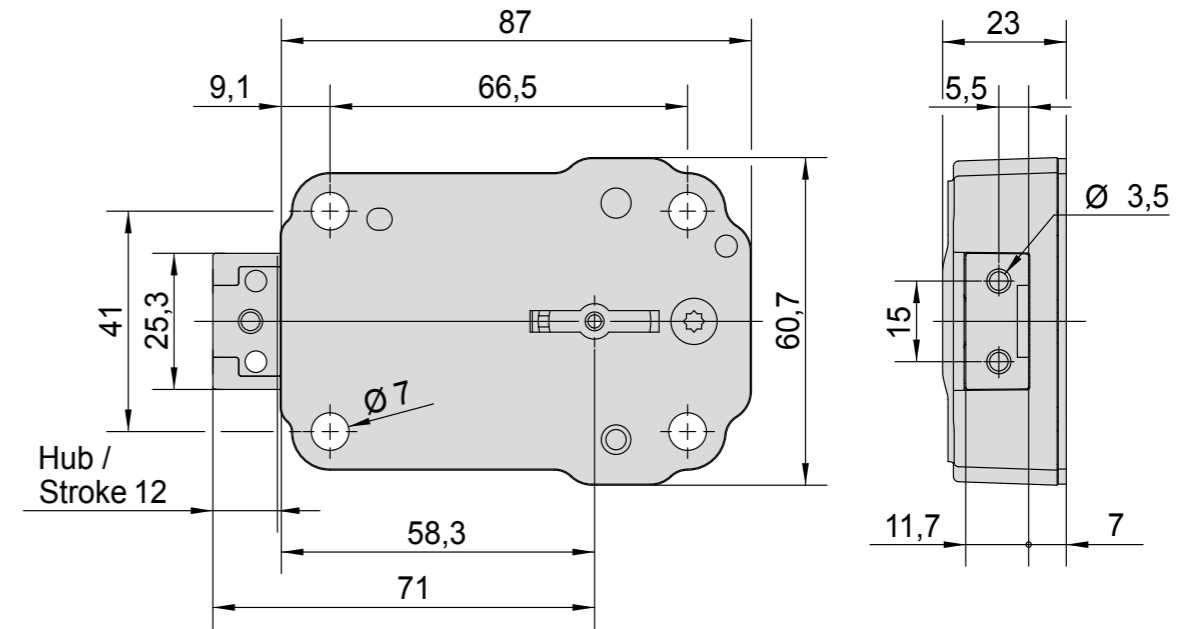
- EN 1300 A
- VdS Class 1
- A2P Niveau A (E)
- IMP Class A
- ECB•S

**Application range**

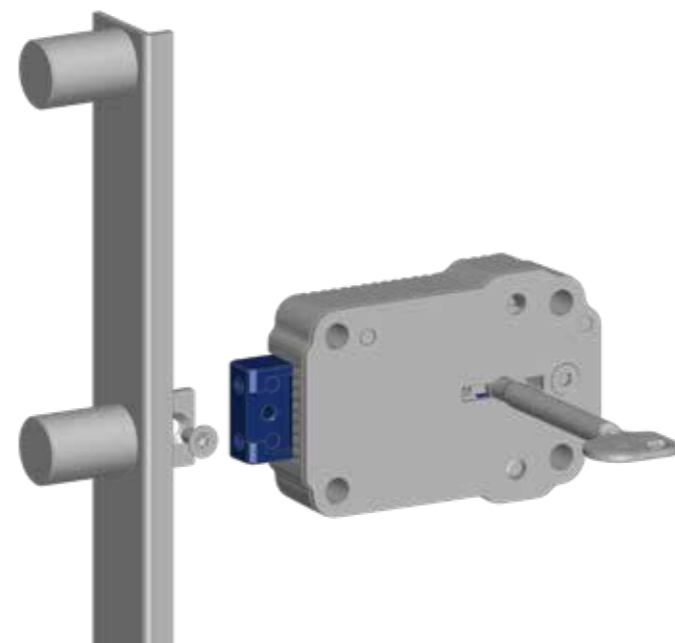
- Safety cabinet according to EN 11450 S1, S2
- Safes according to EN 1143-1 Grade 0 to II
- Examples
  - Hotel safes, small safes and home safes
  - Gun cabinets
  - Inner compartments, drawers, shelf doors
  - Furniture safes



Optima 2648-01-0-Z065-2



Installation of Optima 2648 with bolt ledge



Basic lock 2648	Key		
Article number	Material	Length (mm)	Number
2648-01-0-Z065-2	Die-cast zinc	65	2
2648-01-0-Z065-4	Die-cast zinc	65	4
2648-01-0-Z095-2	Die-cast zinc	95	2
2648-01-0-Z095-4	Die-cast zinc	95	4
2648-01-0-Z120-2	Die-cast zinc	120	2
2648-01-0-Z120-4	Die-cast zinc	120	4
2648-01-0-Z145-2	Die-cast zinc	145	2
2648-01-0-Z160-2	Die-cast zinc	160	2
2648-01-0-M094-2	Brass	94	2

## Mechanical precision for the VdS Class 2.

### Characteristics

- 4 times higher security than VdS class 1 locks
- Protected against scanning and knocking off
- Theoretical number of codes: 282,475,249

### Composition of lock

- Lock: right-hand
- Lock case: steel, galvanised
- Bolt: deadbolt with threaded holes 2 x M4, steel, galvanised
- Bolt hub: 12 mm
- Lock cover, riveted: steel, galvanised
- Levers: 11
- Fixing points: standard

### Certification

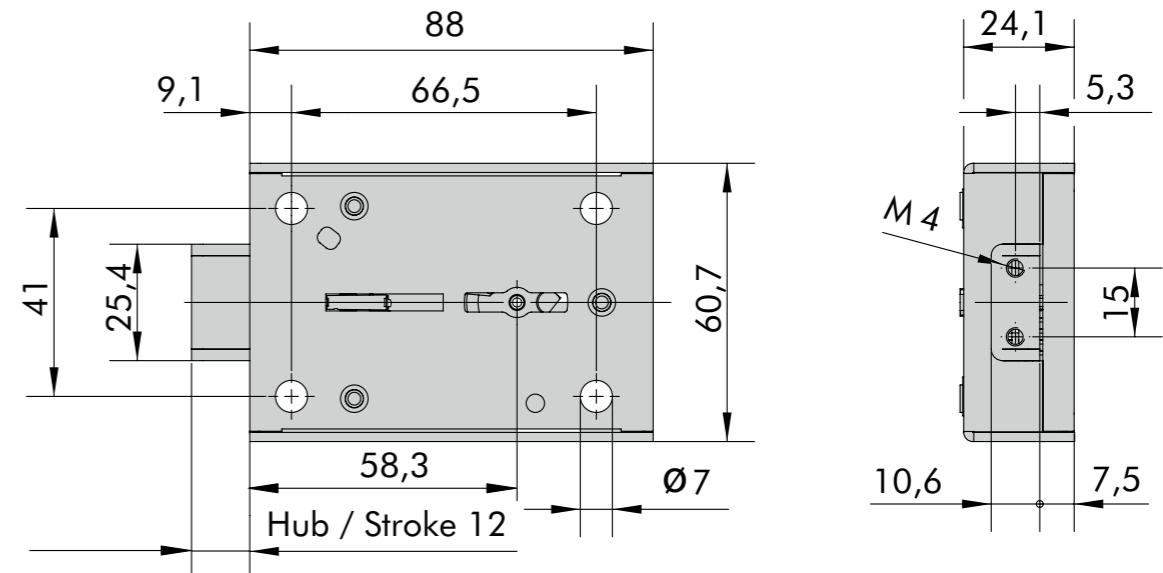
- EN 1300 B
- VdS Class 2
- A2P Niveau B (E)
- IMP Class B
- SBSC
- ECB•S

### Application range

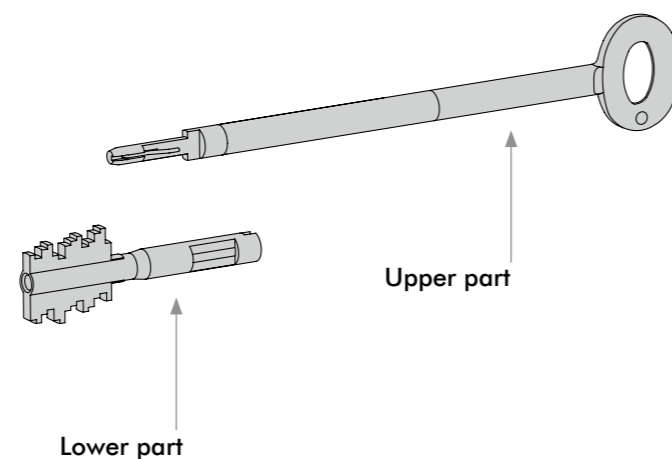
- Safes according to EN 1143-1 Grade III to V
- Examples
  - Armored cabinets (Grade III to V)
  - Cash machines, recycler (Grade III to V)
  - Vault doors (Grade III to V)



Lock 1821-01-0-N096-2



Detachable key



### Basic lock 1821

Article number	Key Material	Length (mm)	Number
1821-01-0-Z135-2	Die-cast zinc	135	2
1821-01-0-Z135-4	Die-cast zinc	135	4
1821-01-0-Z170-2	Die-cast zinc	170	2
1821-01-0-N096-2	Nickel silver	96	2
1821-01-0-N150-2	Nickel silver	150	2

### Detachable key lower part incl. lock

Article number	Material	Length (mm)	Number
1821-01-0-N060-2	Nickel silver	60	2

### Detachable key upper part

Article number	Material	Length (mm)	Number	Detachable key Total length (mm)
SE-S170-00	Steel	170	1	230
SE-S260-00	Steel	260	1	320

## The classic: security without key.

### Characteristics

- Reduction of installation errors
  - No removing of lock cover necessary
  - Actuation by square spindle
  - No need of splinting
  - No spline key necessary
  - No confusion of mounting position possible
- Protected against scanning
- Theoretical number of codes: 1,000,000

### Composition of lock

- Lock: 3-wheel-combination lock
- Lock case: die-cast zinc
- Bolt: deadbolt with 2 holes, die-cast zinc
- Bolt hub: 8 mm
- Fixing points: standard

### Characteristics dial ring

- Sight-protected number scale
- Separate changing and opening index
- For door thicknesses up to 125 mm
- Prepared notches in the square spindle simplify the trimming

### Certification

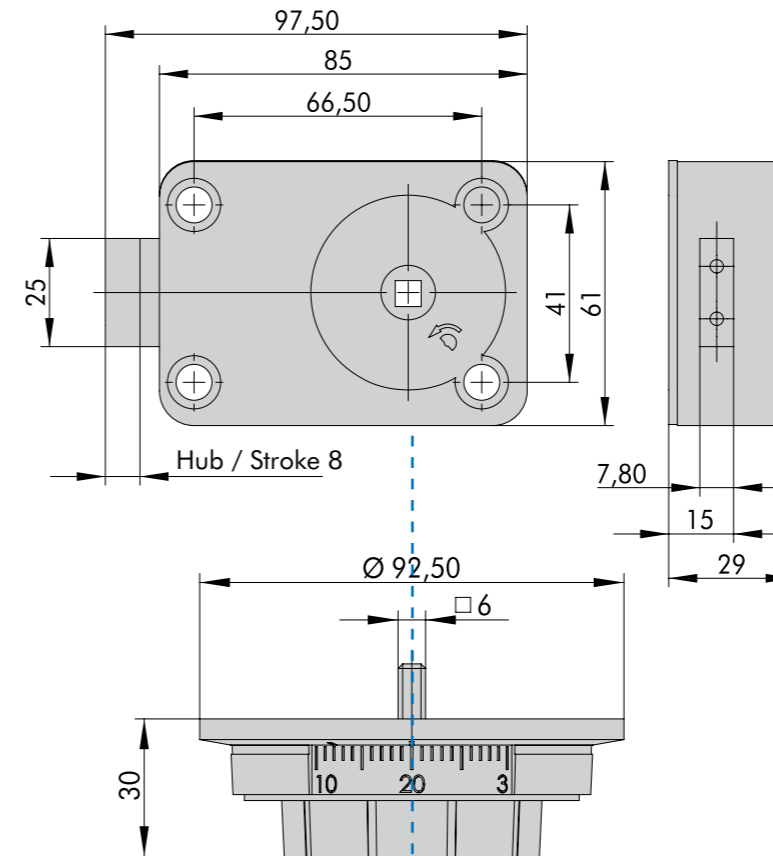
- EN 1300 B
- VdS Class 2
- IMP Class B
- ECB•S

### Application range

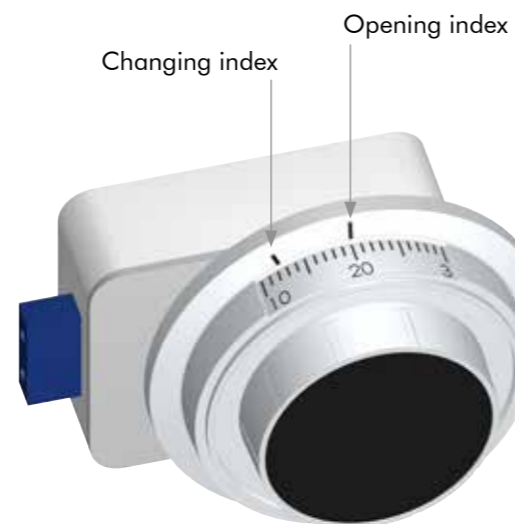
- Safes according to EN 1143-1 Grade III to V
- Examples
  - Armored cabinets (Grade III to V)
  - Cash machines, recycler (Grade III to V)
  - Vault doors (Grade III to V)



3-wheel combination lock 7800-000-0



Indices on dial ring



### Combination lock 7800

#### Article number

7800-000-0	3-wheel combination lock
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#### Dial ring

Article number	Material
AD-004-000	Plastic, black
AD-005-000	Metal, black
AD-001-000	Metal, satin chromed
AD-002-000	Metal, gloss chrome



AD-004-000 / AD-005-000



AD-001-000



AD-002-000

## 100 billion theoretical codes: excellently safe.

### Characteristics

- Highest requirement of security for your lock
- Protected against scanning and knocking off
- Theoretical number of codes: 96,889,010,407

### Composition of lock

- Lock: right-hand
- Lock case: steel, galvanised
- Bolt: deadbolt with threaded holes 2 x M4, steel, galvanised
- Bolt hub: 12 mm
- Combined lock cover, screwed: steel, chromated
- Levers: 14
- Fixing points: standard

### Certification

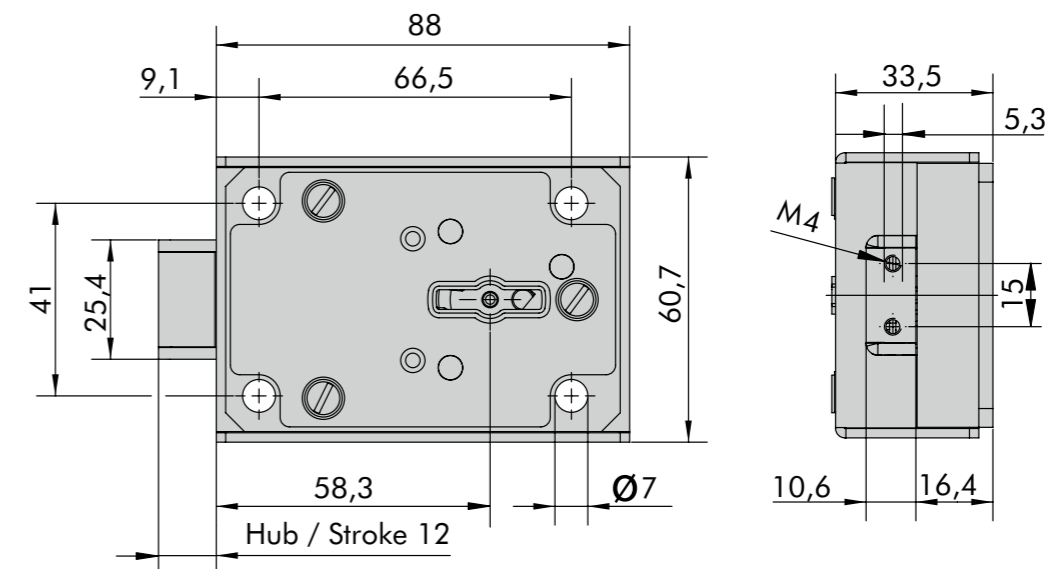
- EN 1300 C
- VdS Class 3
- IMP Class C
- BSI listed

### Application range

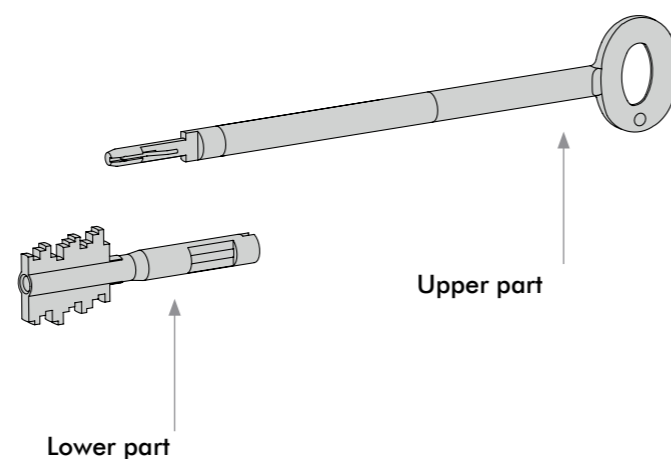
- Safes according to EN 1143-1 Grade VI to XII
- Examples
  - Safes, armored cabinets (Grade VI to XII)
  - Vault doors (Grade VI to XII)



Lock 1824-01-0-N096-2



Detachable key



### Basic lock 1824

Article number	Material	Length (mm)	Number
1824-01-0-N096-2	Nickel silver	96	2
1824-01-0-N150-2	Nickel silver	150	2

### Detachable key lower part incl. lock

Article number	Material	Length (mm)	Number
1824-01-0-N060-2	Nickel silver	60	2

### Detachable key upper part

Article number	Material	Length (mm)	Number	Detachable key Total length (mm)
SE-S170-00	Steel	170	1	230
SE-S260-00	Steel	260	1	320

3-BOLT LOCK 1387 / 1386



1387-01-0-Z053-2

Lock	Version	R / L	Key material	Key length (mm)	Number keys / lock
1387	01	0	Z = Die-cast zinc	53	2

SAFE LOCK OPTIMA 2647



2647-02-0-1-Z065-2

Lock	Version	R / L	Number locks	Key material	Key length (mm)	Number keys / lock
2647	02	0	1	Z = Die-cast zinc	65	2

LOCKS FOR MASTER-KEY INSTALLATIONS

H1609-01-0-0-T056-2



H1609



H1819



H2648

Lock	Version	R / L	Number Master key*	Key material	Key length (mm)	Number user keys / lock
H1609	01	0	0	T = Red brass	56	2

DEPOSIT LOCKS

5347-01-0-0-Z062-2



5347



5367



5427



5457

Lock	Version	R / L	Number bank key*	Key material	Key length (mm)	Number user keys / lock
5347	01	0	0	Z = Die-cast zinc	62	2

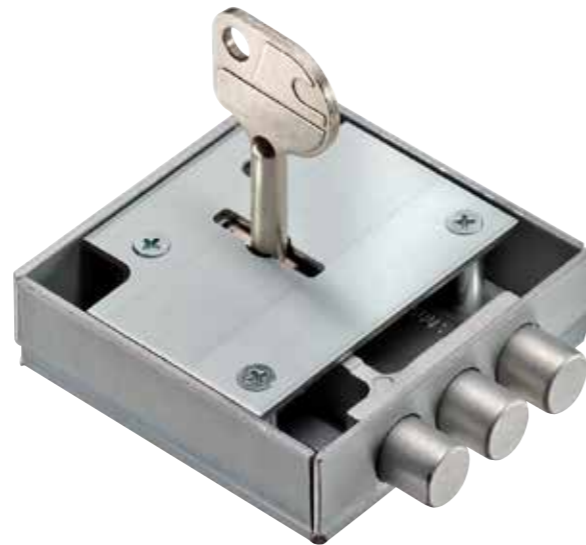
\* Master or bank keys have to be ordered separately



## 3-bolt lock: small, precise, direct.

### Characteristics

- Suitable for direct closure of light safes and inner compartments
- Simplified installation possible by weld-on mounting plate
- Protected against scanning and knocking off
- Theoretical number of codes: 46,656
- **Optional 1386 keyed-alike:**  
Keyed-alike designates a group of locks that open with identical keys
- **Optional 1386 keys removable:**  
Keys can be removed when lock is opened. The key can be deposited in a safe place during opening times



3-bolt lock 1387

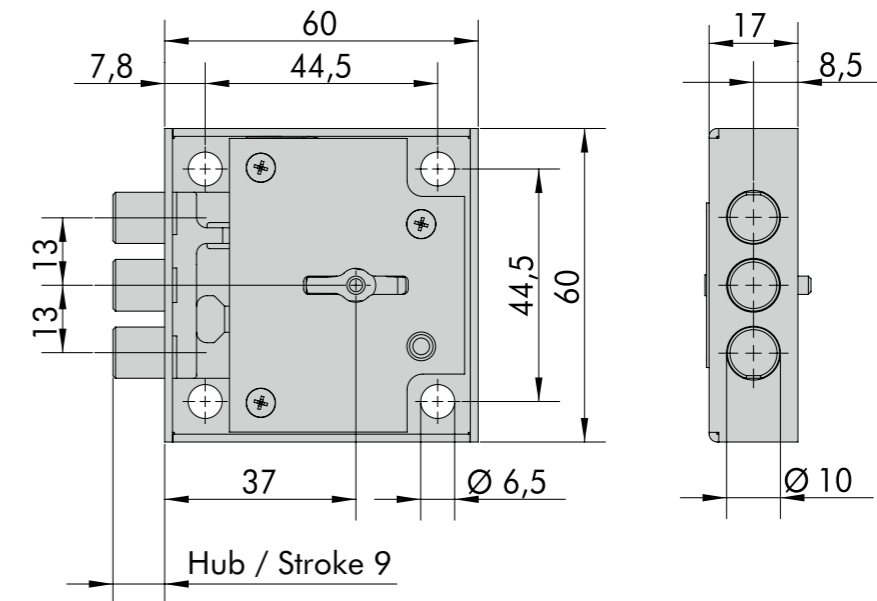
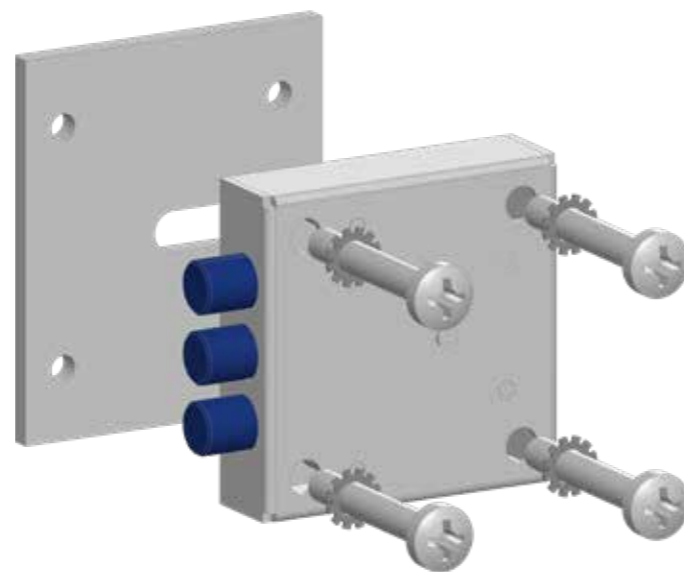
### Composition of lock

- Lock: right-hand / left-hand
- Lock case: steel, galvanised
- Bolt: 3 bolts, die-cast zinc
- Bolt hub: 9 mm
- Lock cover: screwed
- Levers: 7
- Fixing points: deviation from standard

### Application range

- Small safes and home safes, hotel safes
- Inner safe compartments
- Vehicle safes
- Drawer locking mechanism for furniture and interior fittings

Installation of lock fixing plate Z-001



### Basic lock 1387

Article number	Key		Material	Length (mm)	Number	Stamping
	Right-hand	Left-hand				
1387-01-0-Z053-2	•		Die-cast zinc	53	2	-
1387-01-1-Z053-2		•	Die-cast zinc	53	2	-
1387-01-0-Z053-4	•		Die-cast zinc	53	4	-
1387-01-1-Z053-4		•	Die-cast zinc	53	4	-
1387-02-0-Z053-2	•		Die-cast zinc	53	2	Closure number*

\* With the stamped closure number the key can be ordered without sending the original key via mail. This simplifies the ordering procedure and reduces the process and shipping costs.

### Basic lock 1386

Article number	Key			Material	Length (mm)	Number
	Right-hand	Keyed-alike	Removable			
1386-01-0-Z053-2	•		•	Die-cast zinc	53	2
1386-03-0-1-Z053-2	•	•		Die-cast zinc	53	2

### Accessories

Article number	Description
Z-001	Lock fixing plate: weld-on, 70 x 60 x 4 mm

## The special variant of the Optima.

### Characteristics

- Variant of the Optima 2648 but without VdS certification
- Protected against scanning and knocking off
- Theoretical number of codes: 823,543

### Locks keyed-alike:

Keyed-alike designates a group of locks that open with identical keys

### Keys removable:

Keys can be removed when lock is opened. The key can be deposited in a safe place during opening times

### Composition of lock

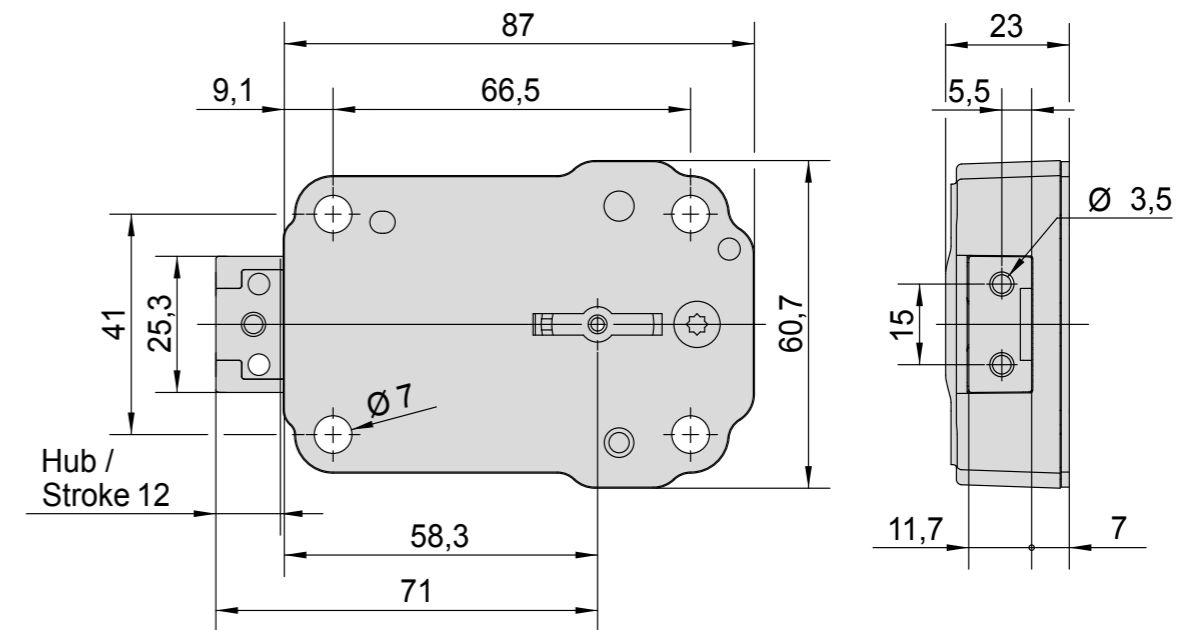
- Lock: right-hand
- Lock case: die-cast zinc
- Bolt: deadbolt with 2 holes, die-cast zinc
- Bolt hub: 12 mm
- Lock cover: screwed
- Levers: 8
- Fixing points: standard

### Application range

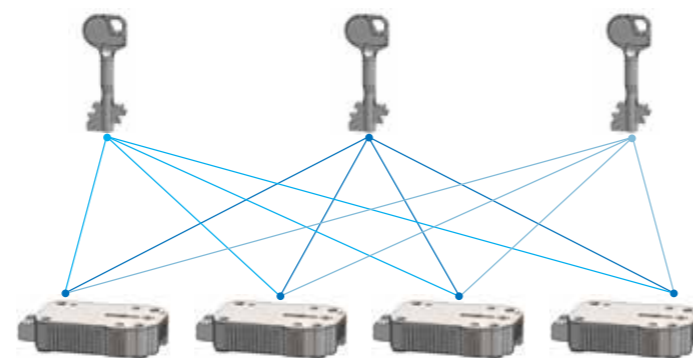
- Hotel safes, small safes and home safes
- Gun cabinets
- Inner compartments, drawers, shelf doors
- Furniture safes



Lock 2647-03-0-1-Z065-2



Functionality of keyed-alike and removable locks



Key non-removable

Key removable

### Basic lock 2647

Article number	Keys		Material	Length (mm)	Number
	Keyed-alike	Removable			
2647-01-0-Z095-2		•	Die-cast zinc	95	2
2647-01-0-Z120-2		•	Die-cast zinc	120	2
2647-01-0-Z145-2		•	Die-cast zinc	145	2
2647-03-0-1-Z065-2	•		Die-cast zinc	65	2

## WITTKOPP master key installations – Opening principle of overriding importance.

Wittkopp master key locks are derived from the safe lock series 16, 18 and 26, which have been extended by the so-called master key function. Master key installations with WITTKOPP master key locks are therefore as safe as the proven WITTKOPP safe locks.

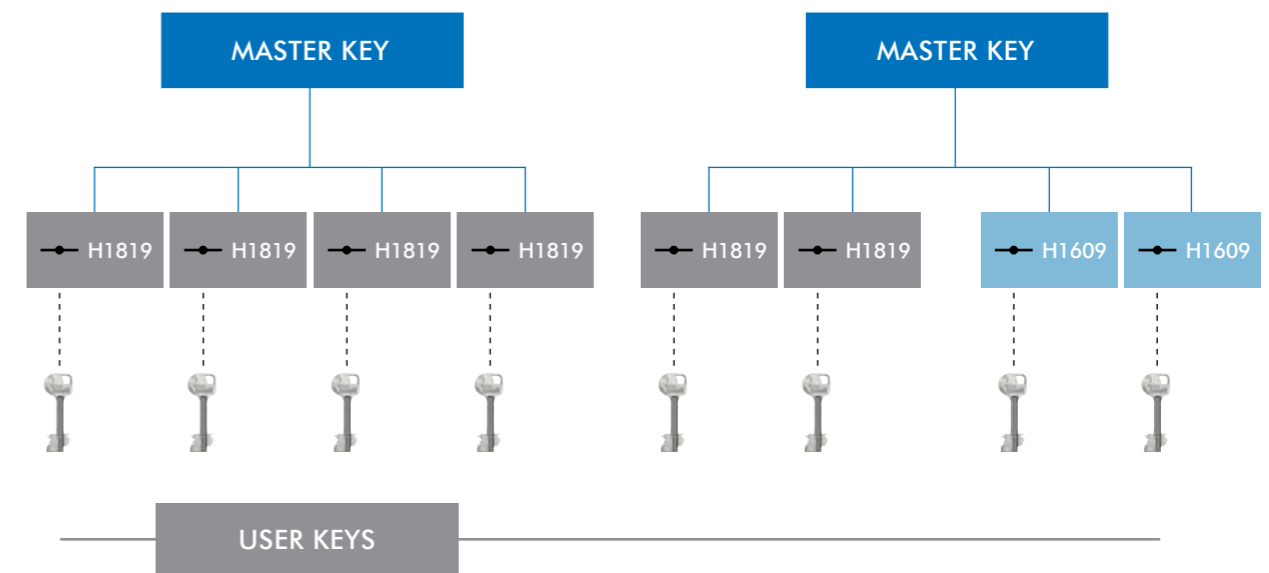
Master key function: The master key opens and closes every lock within the installation as superior key of the hierarchy. The user key can only open the single lock or deposit assigned to him.

Special feature of the Wittkopp master key installations: Because the series 16 and 18 are designed with identical lever packs, the master-key locks of the series H1609 (with extension latches) and H1819 can be combined within an installation with the same master key.

Herefrom result user benefits, because these locks are used in installations for rifles (H1609) and handguns (H1819) together.

### Master key installation with safe lock H1819

### Combined master key installations with safe locks H1819 and H1609



#### Order example for combined installation 20 x H1609 / 30 x 1819

Article number	Pieces
H1609-02-0-0-T056-2	20
H1819-21-0-0-T056-2	30

Article number master key	Material	Length (mm)	Number
SH-M072-10	Brass	72	2

Please indicate the quantity of locks H1609 and locks H1819 as well as the number of master keys.

Ideal for big compartments in master-key installations.

**Characteristics**

- Combines all advantages of the 1609's construction kit system (see page 10)
- Ideal locking mechanism when using extension latches in safe deposit systems for long arms
- High-quality, robust user key
- Theoretical number of codes: 5,764,801

**Composition of lock**

- Lock: right-hand
- Lock case: die-cast zinc
- Bolt: deadbolt, die-cast zinc
- Bolt hub: 12 mm
- Lock cover: screwed
- Levers: 9
- Fixing points: deviation from standard
- Master / user key: stamped installation number

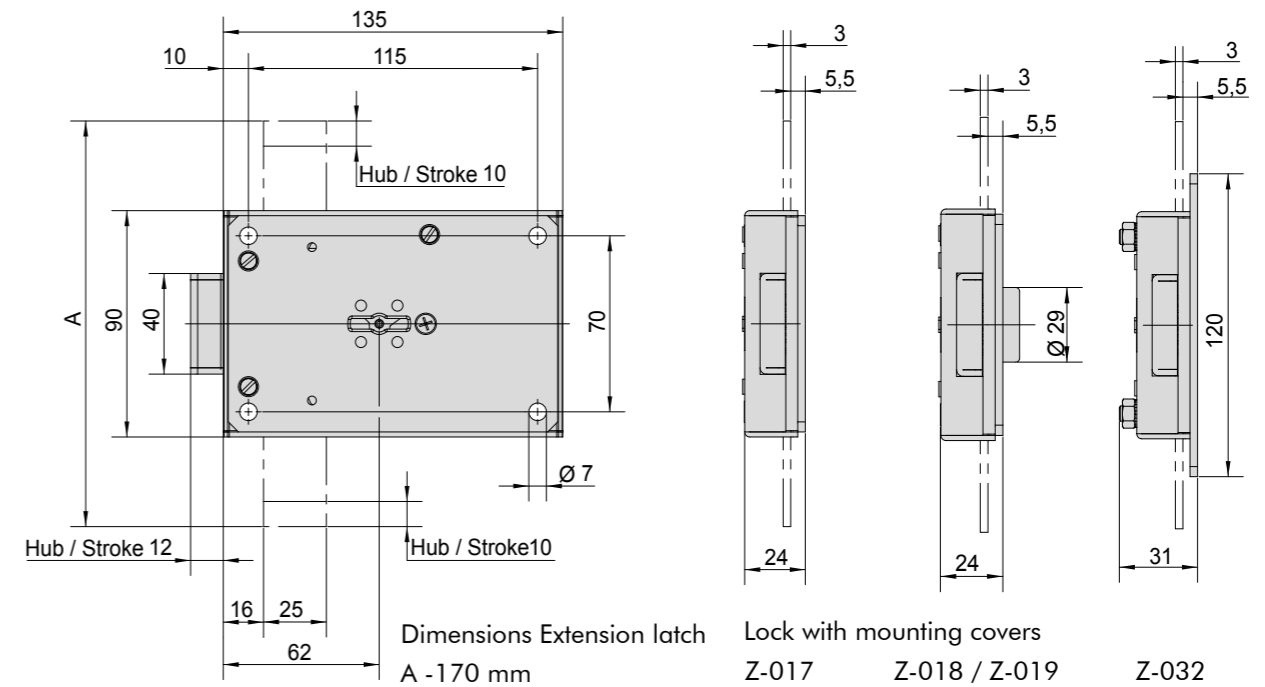
**Application range**

- Master key installations with up to 1,500 compartments
- Safe deposit systems with big doors  
Examples for long arms



Lock H1609-01-0-0-T056-2, lock cover Z-017, extension latch Z-020

Long deposits



**Basic lock H1609**

Article number	Material	Length (mm)	Number	Stamping
H1609-01-0-0-T056-2	Red brass	56	2	-
H1609-02-0-0-T056-2	Red brass	56	2	Deposit number

**Master key**

Article number	Material	Length (mm)	Number
SH-M072-10	Brass	72	2

**Lock covers**

Article number	Material	Fixing
Z-017	Steel chromated	Screw-on
Z-018	Steel chromated, with key hole attachment $\varnothing 29 \times 6.5$ mm	Screw-on
Z-019	Steel chromated, with key hole attachment $\varnothing 29 \times 9.5$ mm	Screw-on
Z-032	Steel chromated	Weld-on

**Accessories**

Article number	Description
Z-020	Extension latch: 170 mm
Z-030	Guidance rails for extension latches
ZS-T056-00	Lever pack for right-hand lock: with 2 keys, red brass, 56 mm

The best solution for many compartments.

**Characteristics**

- Great flexibility within master key installations by combination possibility with H1609
- High-quality, robust user key
- Theoretical number of codes: 5,764,801

**Composition of lock**

- Lock: right-hand
- Lock case: steel, galvanised
- Bolt: deadbolt, steel, galvanised
- Bolt hub: 12 mm
- Combined lock cover screwed: steel, chromated
- Levers: 9
- Fixing points: standard
- Master / user key: stamped installation number

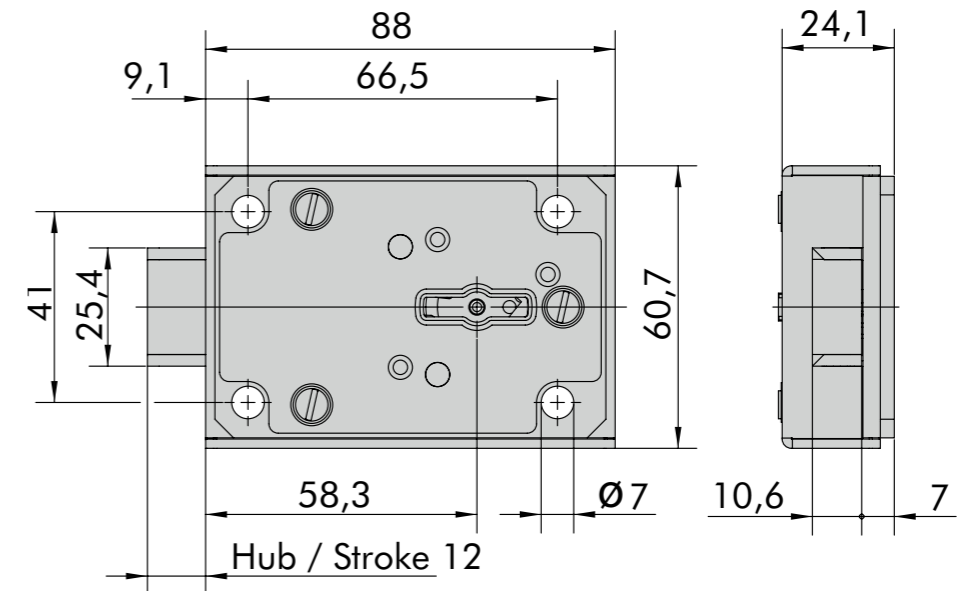
**Application range**

- Master-key installations with up to 1,500 compartments
- Safe deposit systems with small doors  
Examples for handguns



Lock H1819 -11-0-0-T056-2

Small deposits



**Basic lock H1819**

Article number	Material	Length (mm)	Number	Stamping
H1819-11-0-0-T056-2*	Red brass	56	2	-
H1819-12-0-0-T056-2*	Red brass	56	2	Deposit number
H1819-21-0-0-T056-2	Red brass	56	2	-
H1819-22-0-0-T056-2	Red brass	56	2	Deposit number

\* Only as replacement for installations with the number < 2000 (indication of installation number required)

**Master key**

Article number	Material	Length (mm)	Number
SH-M072-10**	Brass	72	2

\*\* not suited for replacement locks

The Optima for master key installations.

**Characteristics**

- Low-cost solution for master key installations
- Theoretical number of codes: 823,543

**Composition of lock**

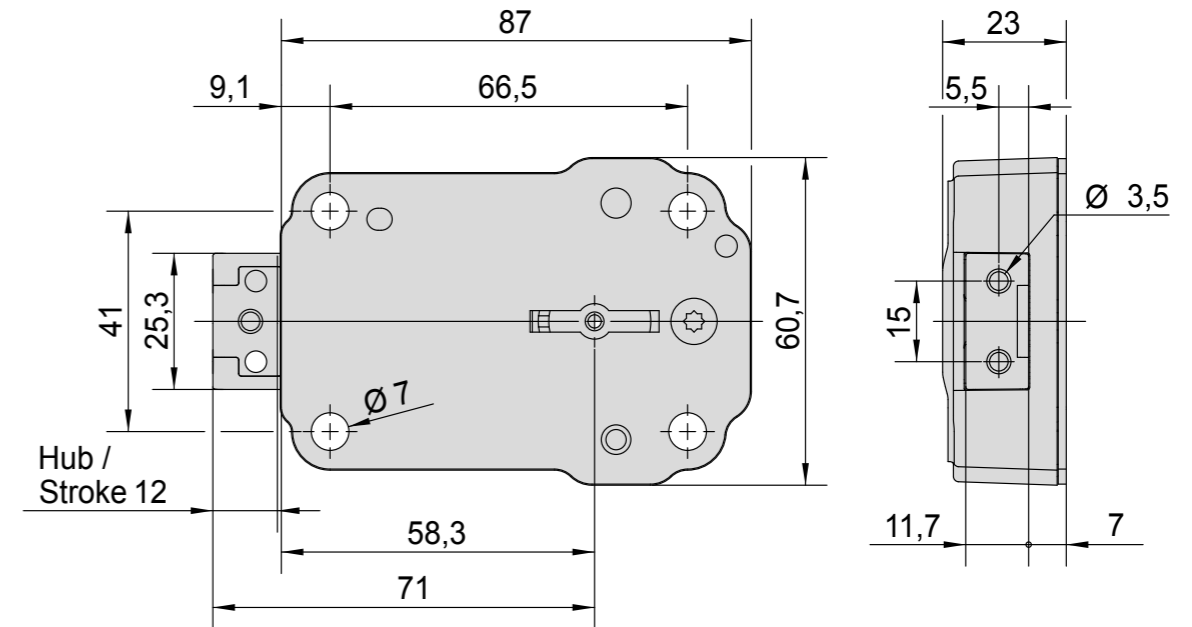
- Lock: right-hand
- Lock case: die-cast zinc
- Bolt: deadbolt with 2 holes, die-cast zinc
- Bolt hub: 12 mm
- Lock cover: screwed
- Levers: 8
- Fixing points: standard
- Master / user key: stamped installation number

**Application range**

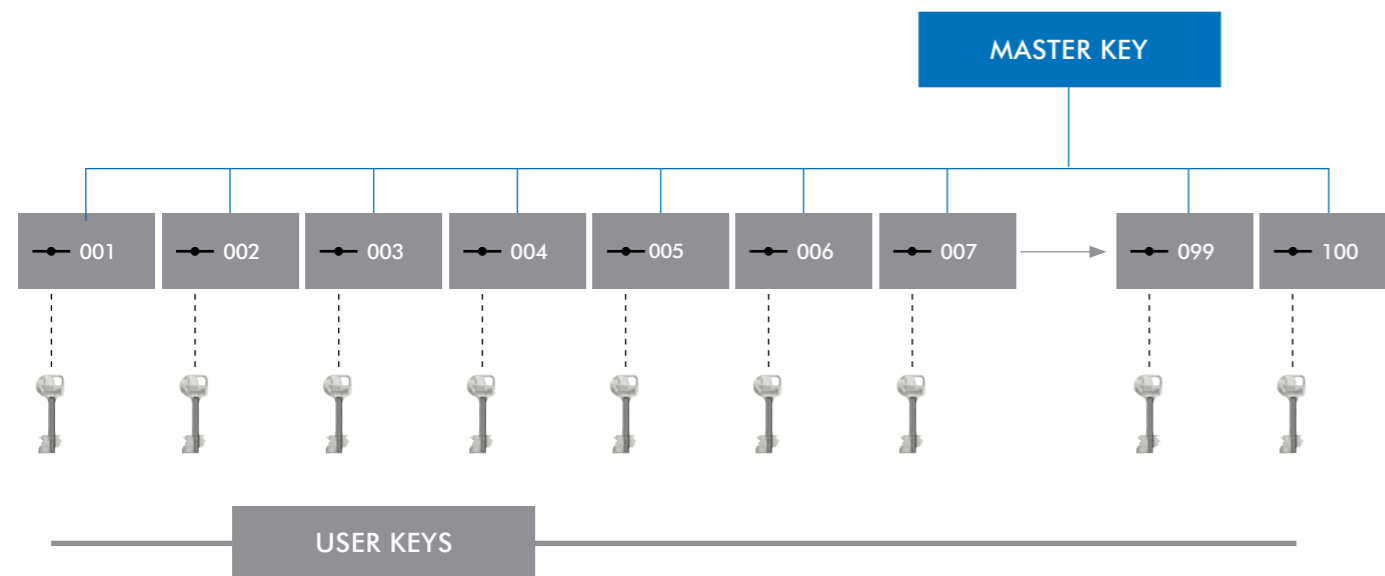
- Master key installations with up to 100 compartments



Lock H2648-01-0-0-Z065-2



Master key installations with numbering of compartments as well as master and user keys



**Basic lock H2648**

Article number	Material	Length (mm)	Number
H2648-01-0-0-Z065-2	Die-cast zinc	65	2

**User key**

**Master key**

Article number	Material	Length (mm)	Number
SH-M072-11	Brass	2	2

## The well-proven lock for deposit systems.

### Characteristics

- Mechanical deposit lock to open with dual verification code
- Theoretical number of codes
  - Bank mechanism: 1,296
  - Client mechanism: 279,936

### Composition of lock

- Lock: right-hand
- Lock case: steel, surface-treated
- 3 fixing points
- Bolt: deadbolt, die-cast zinc
- Bolt hub: 10 mm
- Lock cover: screwed
- Overlying mechanisms: bank and client mechanism in one-hole look
- Bank levers: 4
- Client levers: 7

### Operating principle

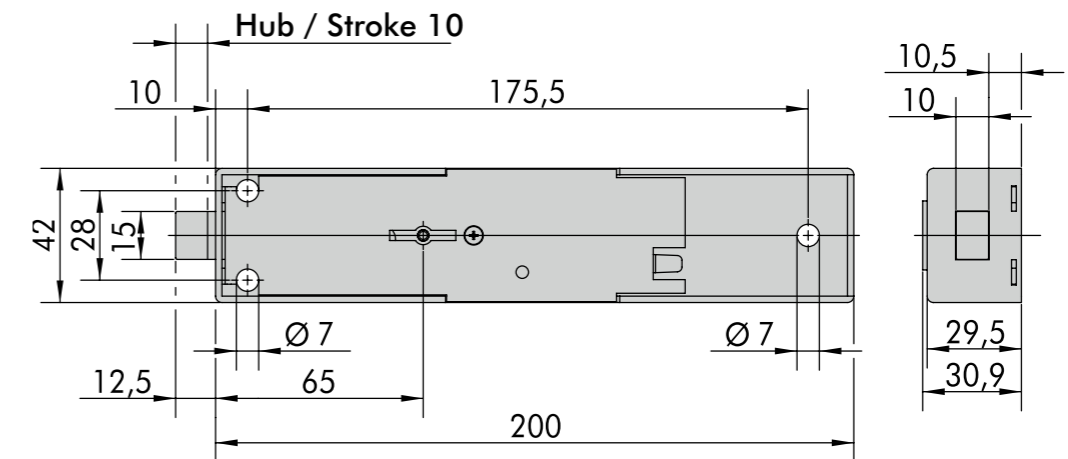
- Dual-key principle: first, opening of the bank mechanism required, then opening of the client mechanism possible
  - Bank key removable with opened lock
  - Client key not removable with opened lock
  - After locking the client's mechanism, the bank mechanism is automatically locked too

### Application range

- Deposit systems



Lock 5347-01-0-0-Z062-2



Opening with dual verification principle



1. Pre-opening with bank key



2. Opening with client key

### Basic lock 5347

Article number	Material	Length (mm)	Number	Stamping
5347-01-0-0-Z062-2	Die-cast zinc	62	2	-
5347-02-0-0-Z062-2	Die-cast zinc	62	2	Deposit number

### Bank key

Article number	Material	Length (mm)	Number
SB-S065-10	Steel	65	1

### Accessories

Article number	
ZS-Z062-00	Client lever pack: with 2 keys, without deposit number, die-cast zinc, 62 mm

The compact version for deposit systems.

**Characteristics**

- All advantages of 5347 but in a smaller casing
- Theoretical number of codes
  - Bank mechanism: 1,296
- Theoretical number of codes
  - Client mechanism: 279,936

**Composition of lock**

- Lock: right-hand
- Lock case: steel, galvanised
- 4 fixing points
- Bolt: deadbolt, die-cast zinc
- Bolt hub: 10 mm
- Lock cover: screwed
- Overlying mechanisms: bank and client mechanism in one-hole look
- Bank levers: 4
- Client levers: 7

**Operating principle**

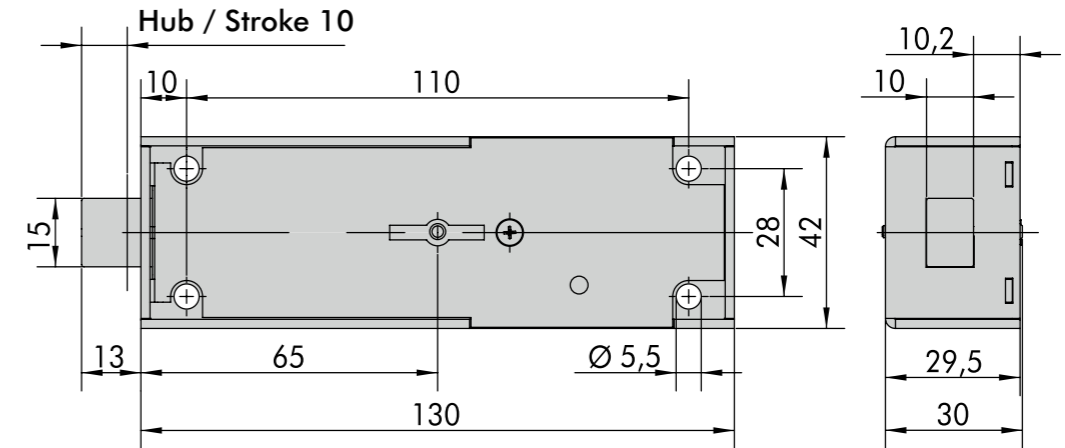
- Dual-key principle: first, opening of the bank mechanism required, then opening of the client mechanism possible
  - Bank key removable with opened lock
  - Client key not removable with opened lock
  - After locking the client's mechanism, the bank mechanism is automatically locked too

**Application range**

- Deposit systems



Lock 5367-01-0-0-Z062-2



Size comparison



5347



5367

**Basic lock 5367**

Article number	Material	Length (mm)	Number	Stamping
5367-01-0-0-Z062-2	Die-cast zinc	62	2	-
5367-02-0-0-Z062-2	Die-cast zinc	62	2	Deposit number

**Client key**

**Bank key**

Article number	Material	Length (mm)	Number
SB-S065-10	Steel	65	1

**Accessories**

Article number	
ZS-Z062-00	Client lever pack: with 2 keys, without deposit number, die-cast zinc, 62 mm



## The deposit lock with electronic convenience.

### Characteristics

- Deposit lock with electronic release and key retention for opening with dual-key principle
- Theoretical number of codes
  - Bank mechanism: 7,776
- Theoretical number of codes
  - Client mechanism: 279,936

### Composition of lock

- Lock: right-hand
- Lock case: steel, surface-treated
- Bolt: deadbolt with key retention, die-cast zinc
- Bolt hub: 10 mm
- Lock cover: screwed
- Bank levers: 5
- Client levers: 7
- Release from bank: electronically with release solenoid, 370 ohm, 12 volt; 100% duty cycle or mechanically with bank key
- Power supply: via bolt contact / cable 3 m

### Operating principle

- Dual verification procedure: first, electronic release required, then opening of the client mechanism possible
  - Client key removable with closed door. Key retention prohibits key removal with opened door
  - In case of an emergency i.e. power outage, the bank mechanism can be opened mechanically with bank key
  - Bank key removable with opened lock
  - After locking the client's mechanism, the bank mechanism is automatically locked too

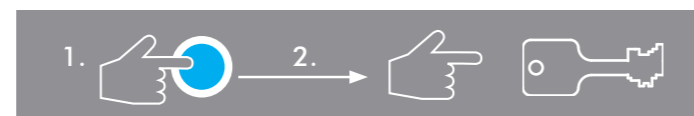
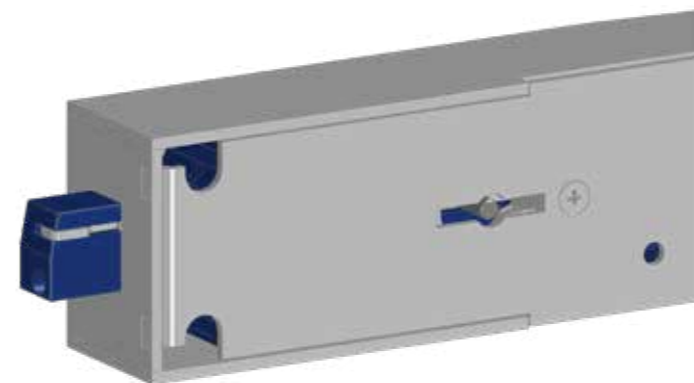
### Application range

- Deposit systems

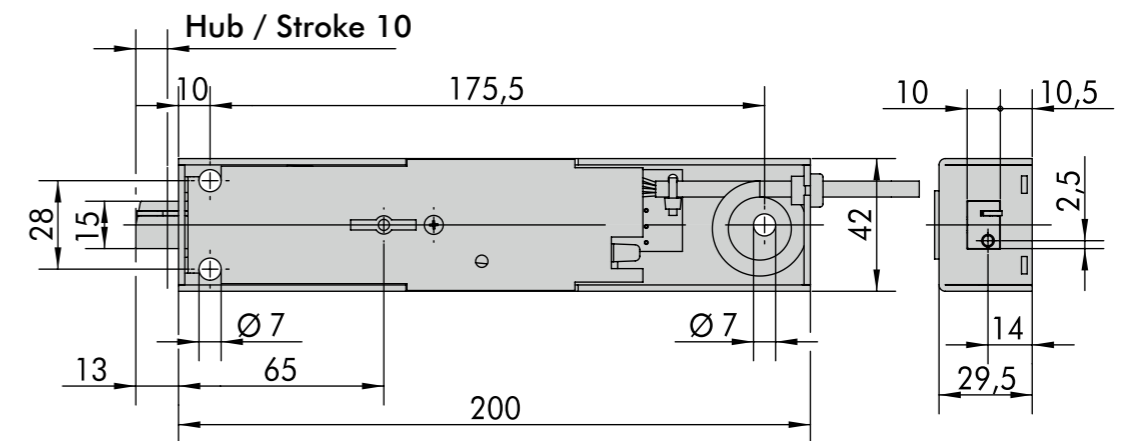


Lock 5427-11-0-0-Z053-2

Transfer lock function



1. Release by electronic signal
2. Opening with client key  
Alternatively: release with bank key



### Basic lock 5427

Article number	Power supply	Material	Length (mm)	Number	Stamping
5427-01-0-0-Z053-2	Via bolt contact	Die-cast zinc	53	2	-
5427-02-0-0-Z053-2	Via bolt contact	Die-cast zinc	53	2	Deposit number
5427-11-0-0-Z053-2	Via cable	Die-cast zinc	53	2	-
5427-12-0-0-Z053-2	Via cable	Die-cast zinc	53	2	Deposit number

### Bank key

Article number	Material	Length (mm)	Number
SB-S065-11	Steel	65	1

### Accessories

Article number	
ZS-Z053-10	Client lever pack: with 2 keys, without deposit number, die-cast zinc, 53 mm

Transfer lock: ideal for consecutive openings.

**Characteristics**

- Deposit lock with electronic release and key retention for opening with dual-key principle
- The lock can alternatively be lined like a transfer lock
- The possibility of a mechanical opening like in the 5427 was left out
- Theoretical number of codes  
- client mechanism: 279,936

**Composition of lock**

- Lock: right-hand
- Lock case: steel, surface-treated
- Bolt: deadbolt surface-treated, die-cast zinc
- Bolt hub: 10 mm
- Lock cover: screwed
- Client levers: 7
- Release from bank: electronically with release solenoid, 370 ohm, 12 volt: 100% duty cycle or mechanically with bank key
- Power supply: via cable 3 m

**Operating principle**

- Dual verification procedure: first, electronic release required, then opening of the client mechanism possible
- Client key removable with closed door.  
Key retention prohibits key removal with opened door

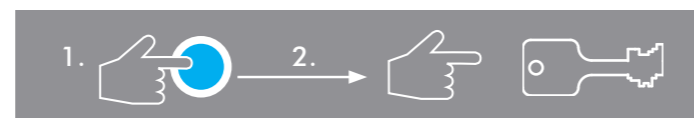
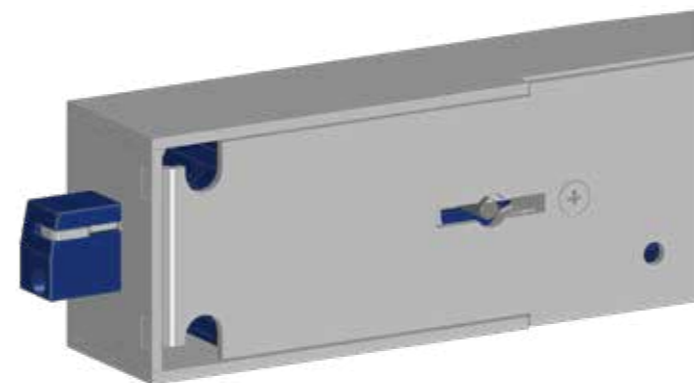
**Application range**

- Deposit systems
- Single transfer application

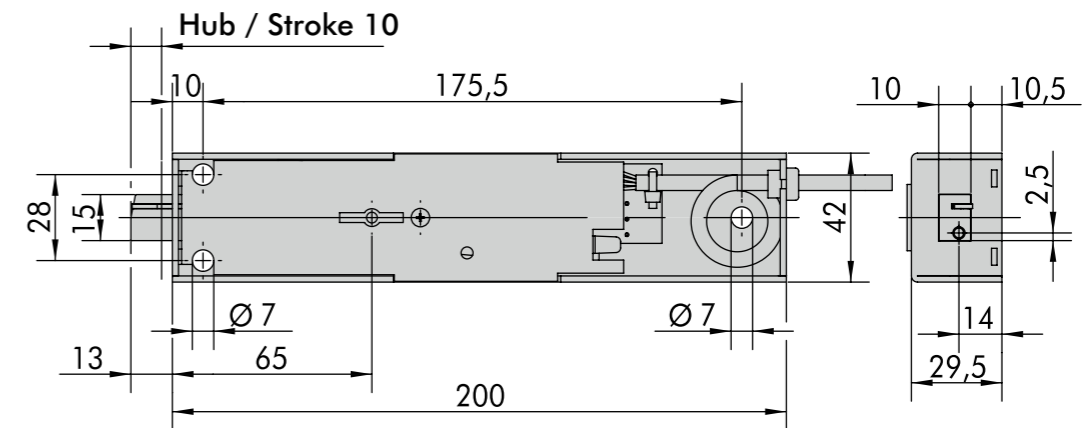


Lock 5457-01-0-0-Z053-2

Transfer lock function



1. Release by electronic signal
2. Opening with client key



**Basic lock 5457**

Article number	Material	Length (mm)	Number	Stamping
5457-01-0-0-Z053-2	Die-cast zinc	53	2	-
5457-02-0-0-Z053-2	Die-cast zinc	53	2	Deposit number

**Client key**

**Accessories**

**Article number**

ZS-Z053-10	Client lever pack: with 2 keys, without deposit number, die-cast zinc, 53 mm
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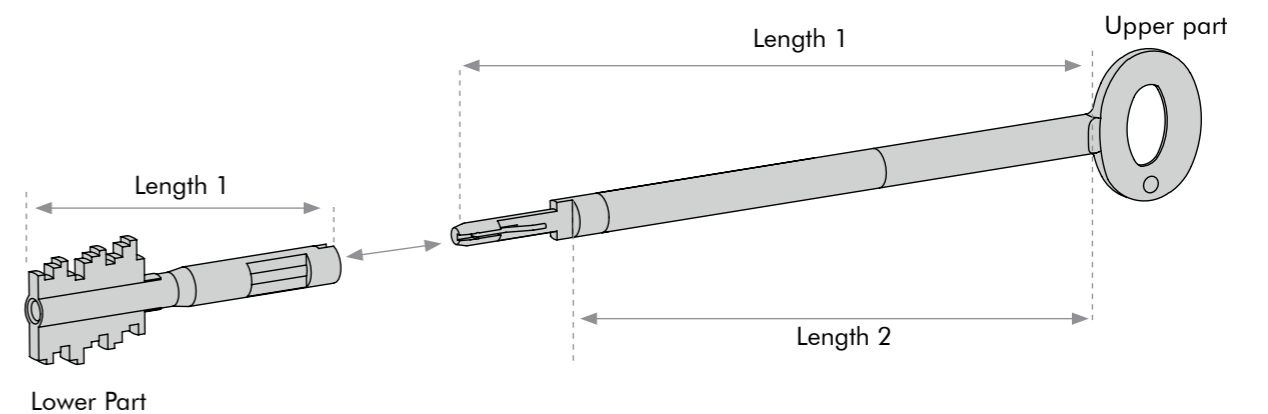
## WITTKOPP keys – quality "Made in Germany":

### The double-bit key

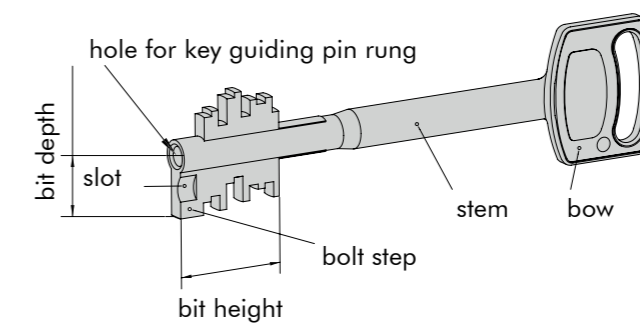
Typical for mechanical locks used in safes is the double-bit key. It is synonymous with precision machining and exceptional security. Wittkopp's double-bit keys are available in various types and materials. The depth of the safe door and how often it is locked should be taken into account when selecting a key. Detachable bit keys or folding keys lend themselves to applications with thick safe doors because they are easy to store.

The detachable bit can be stored separate from the rest of the key. Whenever a lock is opened and closed frequently it is highly advisable to select a red brass or nickel silver key. These materials make the keys far less prone to wear and tear.

### Double-bit key – detachable key



### Double-bit key - rigid



	Article number	Material	Length 1 (mm)	Length 2 (mm)	Ø (mm)	Groove	For safe lock
	SR-Z053-00	Die-cast zinc	53	-	5.50	-	1387 / 1386
	SR-Z065-00 SR-Z095-00 SR-Z120-00 SR-Z145-00 SR-Z160-00	Die-cast zinc	65 95 120 145 160	28 58 81 106 120	5.80 5.80 6.80 6.80 6.80	-	2608 / 2648 / 2647 / H2648 2608 / 2648 / 2647 2608 / 2648 / 2647 2608 / 2648 / 2647 2608 / 2648 / 2647
	SR-Z135-01 SR-Z170-01	Die-cast zinc	135 170	84 120	7.00 7.00	Right-hand Right-hand	1821
	SR-M072-00 SR-M072-01 SR-M072-02	Brass	72 72 72	33 33 33	6.00 6.00 6.00	- Right-hand Left-hand	H2648 1609 / H1609 / H1819 1609
	SR-M094-00	Brass	94	54	6.00	-	2648
	SR-T056-01 SR-T056-02	Red brass	56 56	- -	6.00 6.00	Right-hand Left-hand	1609 / 1639 / H1609 / H1819 1609 / 1639

	Article number	Material	Length 1 (mm)	Length 2 (mm)	Ø (mm)	Groove	For safe lock
	SR-N096-00	Nickel silver	96	49	7.00	-	1824
	SR-N096-01		96	49	7.00	Right-hand	1821
	SR-N150-00		150	103	7.00	-	1824
	SR-N150-01		150	103	7.00	Right-hand	1821
	SE-S170-00	Steel	170	149	7.00	-	1824
	SE-S260-00		260	239	7.00	-	
	SR-N060-00	Nickel silver	60	-	6.00	Right-hand	1824
Client key 	SRM-Z053-00	Die-cast zinc	53	-	5.50	-	5427 / 5457
Client key 	SRM-Z062-00 without bank closure	Die-cast zinc	62	-	5.50	-	5347 / 5367
	SRM-Z062-01 with bank closure						
Bank 	Bank SRB-S065-00	Steel	65	-	5.00	Right-hand	5347 / 5367 / 5427

