The top of security.

SECURITY MADE IN GERMANY
1883

STUV



HIGH SECURITY PRISON LOCKS

HSL Series

The most secure, innovative and reliable prison locks in the world.

High-security solutions – Made in Germany

For over 140 years, STUV has been one of the world‘s most traditional manufacturers of security technology. Our products provide protection where the highest security standards are required – in prisons, by the police and military, in banks, by critical infrastructure providers and by security and logistics service providers.

As an international technology leader with numerous patents, we shape the development of global standards. We combine many years of experience with innovative strength and stand for high-security solutions that are valued worldwide for their absolute reliability. Uncompromising quality is our claim. For us, “Made in Germany” means precision, durability, and security at the highest level. Our systems set standards and give our customers the certainty that they can rely on technology that works reliably under all conditions



Andreas Kupka
Managing director
CEO

„The security of our access solutions begins where the imagination of others ends.“

Andreas Kupka
Managing director
CEO



HSL locks
Technology in a world of opening and closing

RECODABLE
The world's only recodable prison lock. In just 5 sec. Up to 9 key sets

UNPICKABLE
7 lever double bit technology PLUS Picking-Protection systems

UNIQUEABLE
35,000,000 possible codings enable a huge range of locking variants

RELIABLE
Up to 60 years average service life. Tested with up to 1,500,000 cycles

MAINTENANCE-FREE
Non spring loaded levers made of refined bronce. 100% stainless steel

INDESTRUCTIBLE
Tested with a side load of 50 kN (5 t), after which the key is still functional

COMMUNICABLE
Controllable via I/O, RS485, ODBC, RFID, Bluetooth, LoRa WIFI

BLOCKABLE
The only prison lock in the world with electronic hostage/night control



STUV Prison Solutions

Product lines

With us, you have the choice. Regardless of whether you are replacing locks in existing doors or building a new prison: STUV Prison offers a flexible product portfolio for all structural requirements that can be individually adapted to your possibilities or future plans.

MECHANICAL LOCKS



ELECTROMECHANICAL LOCKS



MOTORIZED LOCKS



RETROFIT LOCKS



ACCESS CONTROL



Lock types

HATCH LOCK



DEAD BOLT



LATCH BOLT



DEAD-LATCH BOLT



SLAM ACTION



CREMONE



MULTI POINT



Mechanical locks

Our mechanical prison locks are engineered for high-security environments, providing reliable and robust solutions for prison facilities.

Usage

Designed specifically for correctional institutions, these locks ensure maximum security for cell doors, gates, and restricted areas, combining strength with ease of operation for correctional staff.

Technology

The tumbler mechanism, made of refined bronze, ensures smooth, reliable operation, allowing for quick locking and unlocking while maintaining high security.



Features

RECODABLE

In just 5 sec. No tools required.
Up to 9 key sets

LOCKING ELEMENT VARIETY

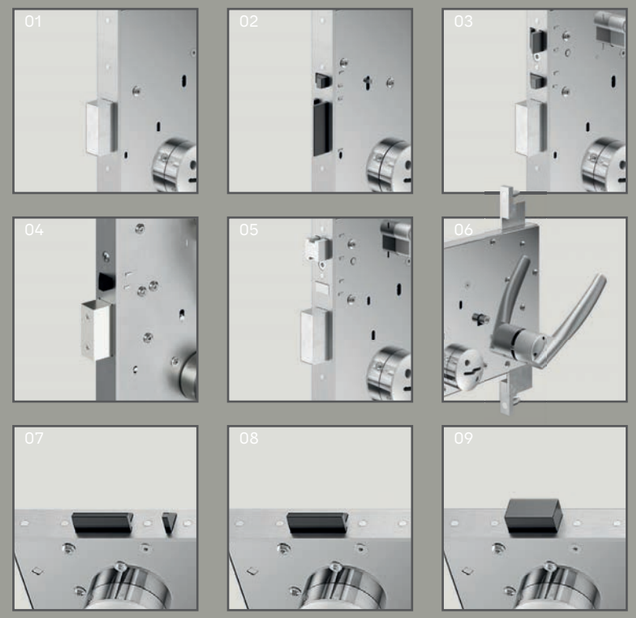
Deadbolt, latchbolt, latch, slam action - and everything in between

PRIVACY FACILITY OPTION

Privacy and security for the cell occupant, overridable by staff

RELIABLE

Up to 60 years average service life.
Tested up to 1,500,000 operations





Cell- and Passageway Locks

01	Deadbolt
02	Latchbolt
03	Deadbolt / Latchbolt combo
04	Slam action
05	Deadbolt / Bolt combo
06	Cremone rod extension

Food Hatch Locks

07	Latch / Auxiliary latch
08	Latchbolt
09	Deadbolt

References

More than 500 prisons worldwide -
ask for more details.



Electromechanical locks

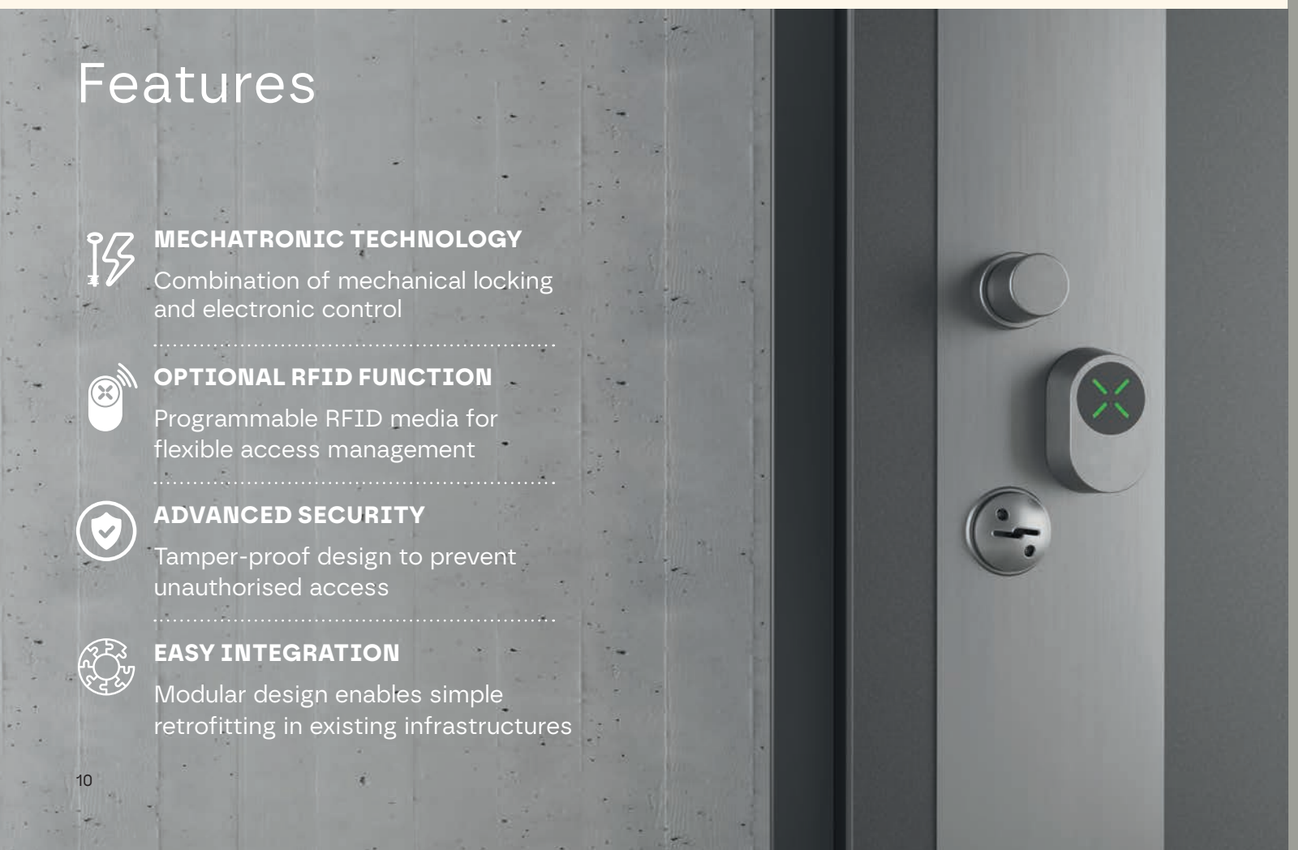
Mechatronic prison locks offer an advanced security solution for prisons. These innovative locks combine mechanical robustness with electronic intelligence to ensure maximum security and reliability. They are optionally equipped with an RFID function, which offers additional flexibility and convenience.

Mechatronically engageable rotary knob

The latch bolt is operated either mechanically by means of an HSL double-bit key or via a rotary knob / lever handle which is electronically activated by a coupling mechanism.

Activation

The coupling mechanism is controlled either via encrypted security RFID ident media (card/chip) locally via wall reader or outside module and/or via external control signals.



Features

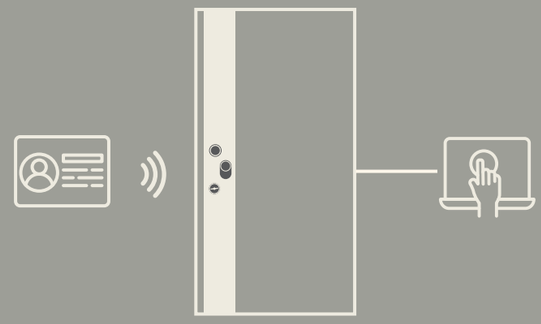
MECHATRONIC TECHNOLOGY
Combination of mechanical locking and electronic control

OPTIONAL RFID FUNCTION
Programmable RFID media for flexible access management

ADVANCED SECURITY
Tamper-proof design to prevent unauthorised access

EASY INTEGRATION
Modular design enables simple retrofitting in existing infrastructures

SECURE ACCESS CONTROL.
DIRECTLY AT THE DOOR OR REMOTELY.





The RFID outside modul

Clear signalling. Intuitive operation.

ACCESS AUTHORISED
Green flashing pulse
short tone

ACCESS DENIED
Red flashing pulse
3 x short tone

PRESENCE STATUS 1
without time limit
Green flashing pulse

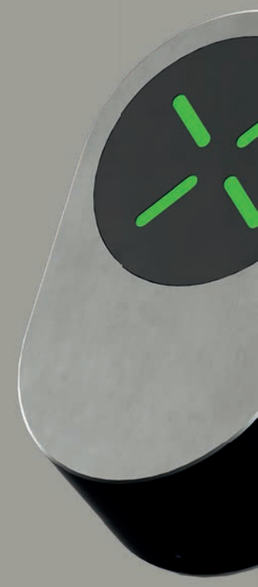
PRESENCE STATUS 2
with time limit
Green running light

RFID READER LOCKED
via RS485 / radio
Red flashing pulse

LOCKING MECHANISM BLOCKED
via RS485 / radio / I/O
Flashing pulse

PRESENCE STATUS REMOVED
Green flashing pulse

ERROR
red / yellow flashing pulse



Motorised locks

Motorised locks from STUV are robust and extremely functional latch bolt, multi point and sliding door locks. The locks can be installed either in the door leaf or in the frame. They are controlled via conventional PLC (C-Locks) or BUS (T- / E-Locks) technology and can be operated locally at the door, e.g. via RFID medium. You can realise a stand-alone solution with just one lock or a whole complex of buildings with hundreds of motorised locks. The system can be easily scaled.

Our motorised HSL high-security technology provides comfort and reliability. It offers flexibly customisable and intuitively operable solutions. These support prison staff and increase security, convenience and energy efficiency. They can also be integrated into existing buildings or added to functionally and aesthetically as required.

HSL motorised locking solutions. Make the safest decision today for tomorrow.

OPERATING OPTIONS
(Lock HSL 104)

RFID Medium



Opening request to control centre



Emergency key



at the door



remote

Control panel



STUV PYCONTROL



3D adjustable hinge

up to 300 kg

HSL 104

available with RFID

RFID Fitting

Various designs available

Cable transition hinge

tamper-proof



With electrical installations planned with foresight, you can fulfil the requirements placed on today‘s prison facilities.

Retrofit locks

STUV offers a modular locking system that allows you to replace old locks from CHUBB®, HOLLIS SCOTT, SOUTHERN FOLGER® and others with modern high-security locks in just a few minutes. No or only minor conversion work is required on your doors. STUV locks offer exactly the same basic dimensions as your existing flush-mounted and surface-mounted locks.

HSL retro. The system.

The aim of STUV‘s product developers is not only to ensure that as many locks as possible fit the doors available on the market, but also that they are absolutely secure and reliable. The market-wide-unique features of our locks are proof of this goal.

The master / group option.

Additionally, the HSL retro series supports a master/group key function using notched plates. The master key has access to all (up to 18 different) subgroups. The goup key has access to selected subgroups. Each subgroup has its own subgroup key.

Features

- Forend, striking plate, lock case and all functional parts made of corrosion-resistant stainless steel.
- Solid stainless steel locking elements, e.g. latches, latchbolts and shootbolt attachments, optionally with saw protection.
- High protection against side load forces up to 50 kN, maximum end load latch back pressure up to 6 kN.
- Secured latch opening protects against lock manipulation when the door is open and accessible to inmates.
- Manufacturer-exclusive key profiles. No illegal key copies. More than 100,000,000 combinations
- In the event of key loss or change of locking: 9-fold recodable locking mechanism, recodable as often as required, in five seconds per lock
- Double-bit lever locks with seven levers that are fully integrated into the lock housing and protected against tampering.
- Non-pickable, springless levers made of low-wear special bronze alloy with 35,000,000 possible codings.

Retrofitting made extra easy
The simple process of replacing an old Chubb® 4L55 with a state-of-the-art HSL C175



1. Remove old lock
2. Install mounting plate if required
3. Install new HSL C175 with 5 screws - done



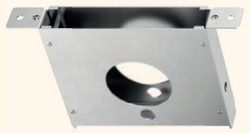
HSL lock boxes

The easy and secure way to install and maintain prison locks.
For mechanical, mechatronic and motorised high-security locks.

MECHANICAL **ELECTRONIC** **FOOD HATCH** **CUSTOMIZED**









Features

WELDABLE
Stainless steel lock pockets are welded into the door leaf

PRACTICABLE
Electronic connection is made automatically by inserting the lock

SIMPLICABLE
Guarantees correct lock retention and makes installation and removal easy

PROTECTABLE
Provides additional protection and makes tampering even more difficult

STUV Prison Solutions

HSL

Forward thinker. Systems thinker. Security designer. STUV develops high-security locks that are leading in technology and concept.
A selection of our solutions:

HSL 101



Deadbolt lock with single key turn deadbolt throw

HSL 102



Deadbolt lock with privacy latch (with follower)

HSL 103



Latchbolt lock with RFID engageable rotary knob

HSL 104



Motorised latchbolt lock with I/O contacts or BUS connectors

HSL 111



Deadbolt lock with additional daytime latch (no follower)

HSL 175



Deadbolt slam action cell lock

HSL 104 RT



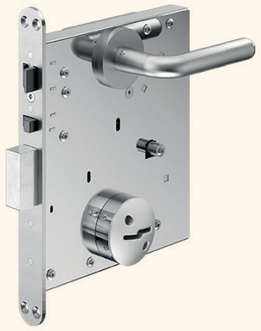
Motorised latchbolt lock with two HSL locking mechanisms and key switch

HSL 105



Latchbolt lock with auxiliary latch

HSL 106



Deadbolt/latch lock with handle/lever function for administration doors

HSL 110



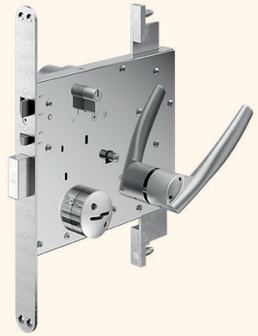
Deadbolt lock with additional bolt (no follower)

HSL 301



Cremone lock with deadbolt

HSL 302



Cremone lock with deadbolt and privacy latch (with follower)

HSL 402



Multi-point deadbolt lock with privacy latch (with follower)

HSL 404



Multipoint motorised latchbolt lock with I/O contacts or BUS connectors

HSL / HSL retro

HSL 201



Food hatch latchbolt lock-with auxillary latch

HSL 204



Food hatch latchbolt lock

HSL 205



Food hatch deadbolt lock

HSL C175



Retro deadbolt slam action cell lock (rplc. for Chubb® 4L55 and 4L56)

HSL C171



Retro deadbolt slam action cell lock (rplc. for Chubb® 4L55 and 4L56)

HSL C801X



Retro deadbolt lock (rplc. for Chubb® 3G112)

HSL C201X



Retro food hatch lock (rplc. for Chubb® 4L80)

SL

SL 101



Deadbolt lock with profile cylinder

SL 201



Food hatch latchbolt lock-with auxillary latch

SL 204



Food hatch latchbolt lock

SL 205



Food hatch deadbolt lock

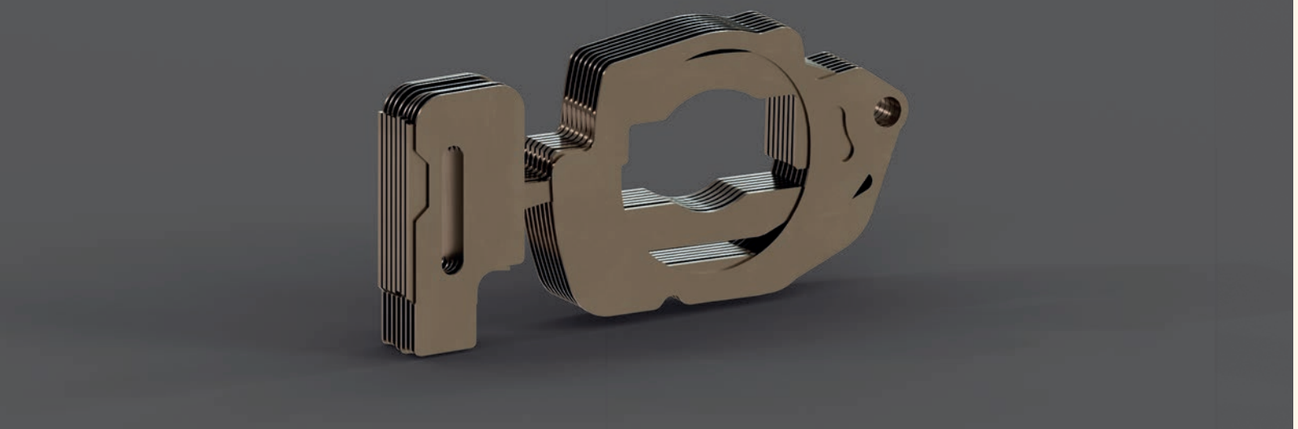
More solutions?

Further product variants and accessories are available on our website.

TUMBLER TECH

Maintenance free • Spring free

High refined bronze tumblers



Tumbler set

TECHNOLOGY

BENEFITS

- STUV tumbler sets are completely maintenance-free.
- STUV‘s double-bit technology prevents incorrect locking and misaligned tumblers, which occur with old single-bit locks. Other international manufacturers still produce the insecure single-bit technology for prisons today.
- In contrast to the brass material used by other manufacturers, STUV only uses high-quality bronze material with self-lubricating properties for a significantly longer than average service life.
- Unlike single-bit technology, the STUV locking system does not use a single spring. This means there is no risk of breakage and therefore no locking failures and time-consuming repairs.
- The STUV double-bit technology offers maximum security.

RECODING

No tools • No conversions

In just 5 seconds per lock



HSL double bit key

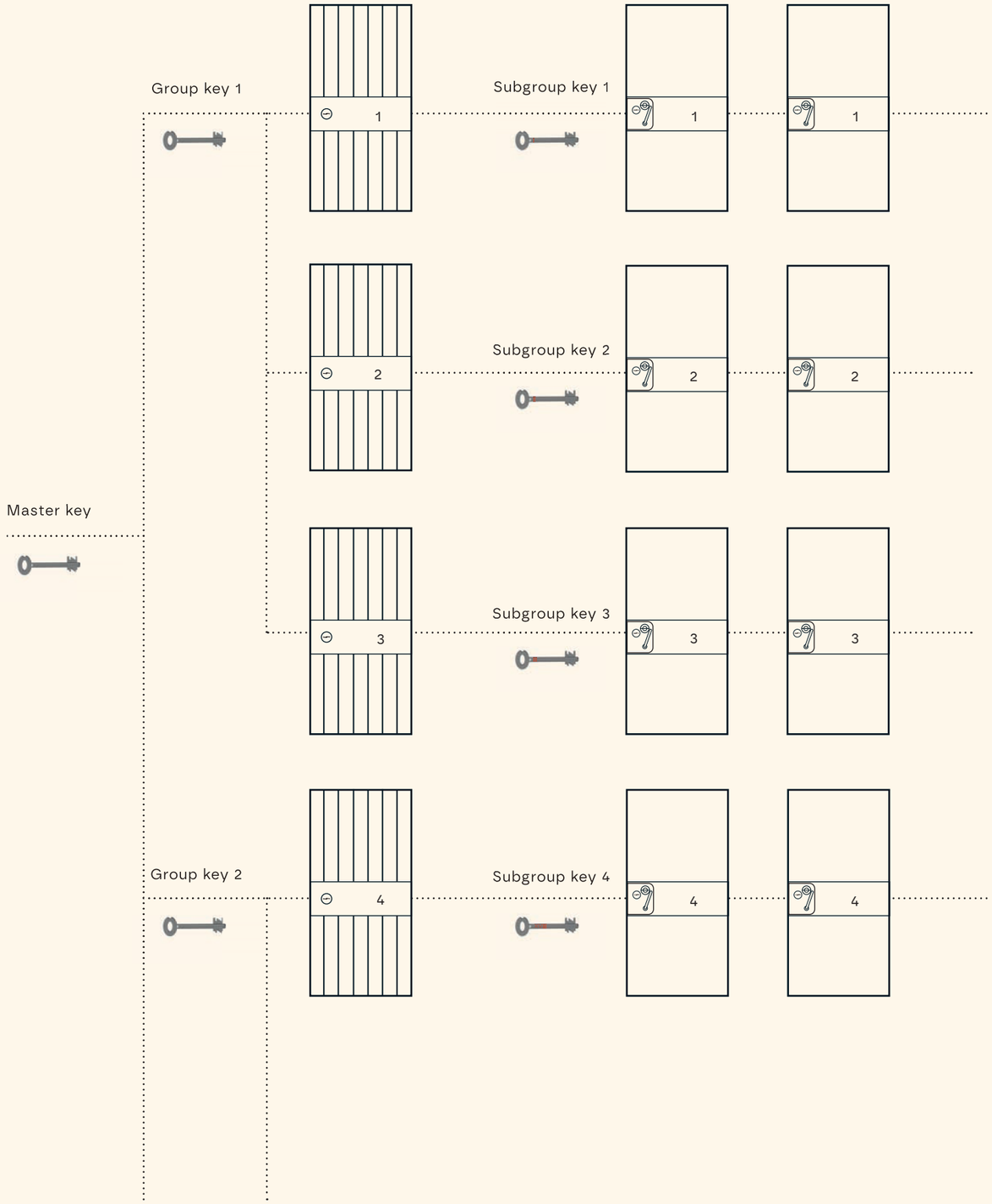
TECHNOLOGY BENEFITS

- If a cell or pass key is lost, users of competitor locks generally have to replace all the locks. This has already happened in many Commonwealth prisons in the past.
- STUV locks with recodable double-bit technology save an incredible amount of time, money and effort in such cases.
- If a current key is lost, the new set of keys is taken from a prison safe. We recommend ordering a minimum of three sets of keys when commissioning the locks. Each set should cover the number of officers.
- An entire prison can be recoded to the new locking system in just one shift.
- Recoding takes a maximum of 5 seconds per lock.
- How does it work? Simply unlock with the current key and lock with the new key. Done.
- Previous lockings are not invalidated. The process can be repeated as often as required.

MASTER / GROUP OPTIONS

THE SMART SECURITY SYSTEM

HSL and HSL retro series support a master/group key function using notched plates. The master key has access to all (up to 21 different) subgroups. The goup key has access to selected subgroups. Each subgroup has its own subgroup key.



Door hinges

The STUV door hinges made of high-quality stainless steel were specially designed for use in high-security areas such as prisons, detention centres and airlocks. The range includes load-bearing hinges and cable transition hinges.

3D adjustable load-bearing hinges

The product line convinces with its 3D adjustability, which allows the door to be precisely adjusted in three dimensions, thereby offering maximum flexibility during installation. With a load capacity of up to 300 kg per hinge pair, they are suitable for heavy steel doors.

Protected cable transition hinges

The cable transition hinge is the best solution when using electronic or motorised locks. It is attached to the door as a third, non-load-bearing hinge and, thanks to the ribbon cable, offers over 1 million tested opening cycles as well as an easy-to-replace cable element should replacement become necessary after many years of use.

Features

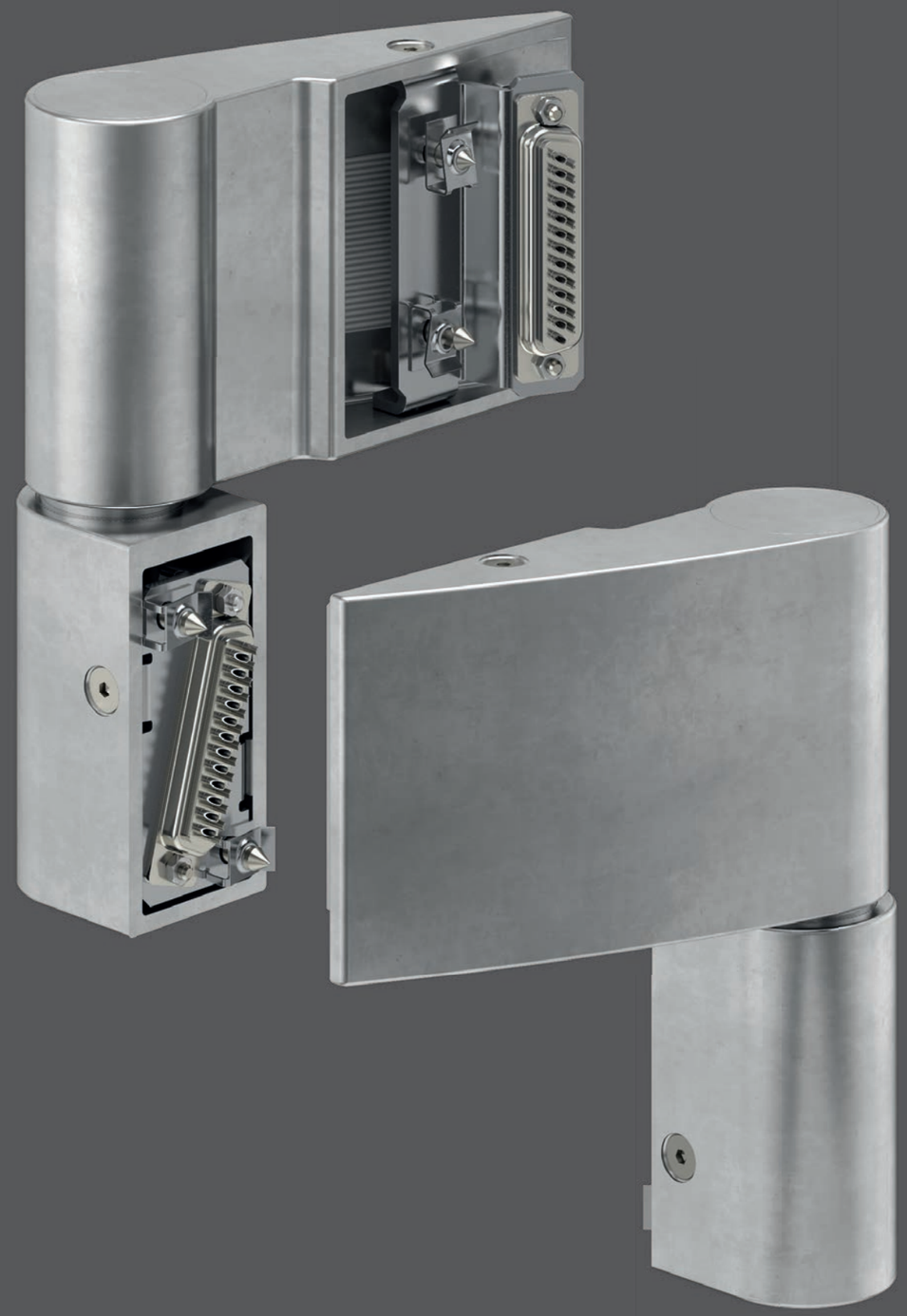
LONG-LASTING
Tested for more than 1,000,000 opening cycles.

LOAD BEARING
Load capacity of up to 400 kg per hinge pair

TAMPER-PROTECTED
Provides additional protection and makes tampering even more difficult

EASY CABLE REPLACEMENT
Cable can be easily replaced if necessary by opening the hinge





Weather protection

The screw-on weather protection rosettes offer optimum protection for locks on doors and gates in prisons. The escutcheons are made of high-quality stainless steel, which not only resists corrosion but also withstands heavy mechanical loads.

Easy to retrofit

Thanks to the screw-on installation, these rosettes are particularly suitable for retrofitting existing doors and gates. The dimensionally stable design provides reliable protection against moisture, dirt and temperature fluctuations. At the same time, they make tampering attempts more difficult and offer additional protection against vandalism.

Features

SIMPLE INSTALLATION
Screw-on installation with existing key guide. Easy to retrofit.

ONE-HAND OPERATION
Cover slide is lifted with key.
No second hand required.

TAMPER-PROTECTED
Provides additional protection and makes tampering even more difficult

WEATHERPROOF
Provides reliable protection against rain and dirt for outdoor locks.



Signal light

The curved metal front of the triple beacon housing allows it to blend in with walls and building services applications. The 180 degree viewing angle ensures exceptional visibility even from the side.

The signal light is designed for use as cell call communication, presence signalling and lock status display for electronic and motorised locks. The three bright illuminated areas are long-life, energy-saving LEDs with 24V DC operating voltage.

Features

SIMPLE INSTALLATION
Pre-equipped for simple surface mounting on the wall using support plate

EXCELLENT VISIBILITY
Three super-bright LED chambers with 180° field of vision

PRISON APPLICATION
Robust tamper-proof design with high-intensity LEDs in red, amber, green

EASY CONNECTION
4-pin Phoenix plug at 24V DC, complies with DIN VDE 0834/1



References

HSL C175 Hongkong (Asia)



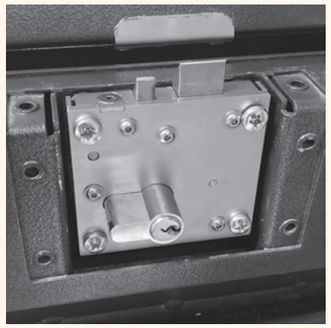


HSL C175 Eswatini (former Swaziland)





SL C204 Sydney (Australia)


Certified test center

To ensure the high quality of our high-security products, STUV operates its own test centre as part of our quality management system. All components of the safety products are systematically subjected to various tests - from development to delivery. In this way, we ensure that our customers always receive a flawless product.

We regularly carry out up to 1,500,000 test cycles for HSL locks, hinges, fittings, handles and RFID readers.



Watch the video



STUV ACADEMY

With decades of experience in the field of high security technology and years of industry specialisation, STUV offers unique insights into the correctional industry through the best training courses available on the market. We offer training in a variety of formats, including classroom training, virtual classroom training and customised training at our state-of-the-art STUV ACADEMY in Heiligenhaus near Düsseldorf, which opened in 2024. The STUV ACADEMY supports staff, professionals, planners and architects in developing valuable skills and acquiring in-depth knowledge through a range of high quality and practical training courses delivered by experts from the field.

OPERATORS / GUARDS

User training with practical sessions on installation, maintenance and product knowledge



ARCHITECTS / PLANNERS

Technical properties, smoke and fire protection, instructions for tendering



DOOR MANU-FACTURERS

Product knowledge, installation practice, certificates and product customisations





Did you already know?

We are not just specialists in replacement locks for prisons. Our product portfolio includes over 5,000 items. We are constantly developing new solutions for the justice system, police and forensics. These include mechanical and electronic high-security locks, door control and access solutions as well as a wide range of accessories.

And if you are looking for an individual solution, we will be happy to develop it for you.

Talk to us, what can we do for you?

SECURITY
MADE IN
GERMANY

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