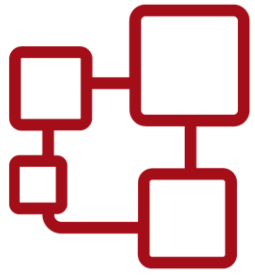




# PRISON SECURITY

MADE IN GERMANY





unival<sup>®</sup>  
group

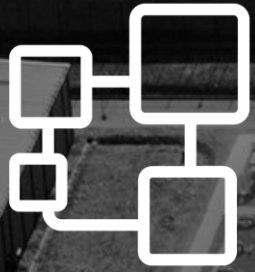


# PRISON SECURITY

MADE IN GERMANY

GEUTEBRÜCK





**unival<sup>®</sup>  
group**

**TURN-KEY PRISON  
SECURITY**



**ACCESS SECURITY & PEOPLE SCREENING**

# **PRISON SECURITY**

**HIGH-SECURITY WINDOWS, DOORS AND GATES**

**PRISON JAMMING & COUNTER-UAS**

**MADE IN GERMANY**

**PHYSICAL SECURITY & MANAGEMENT**



**SCREENING SYSTEM & VIDEO SECURITY**

**HIGH SECURITY LOCKS & CENTRAL CONTROL SYSTEMS**





**MULTI-LEVEL  
SECURITY**





## ABOUT UNIVAL GROUP

unival® group is a Bonn, Germany based group of companies specialized in governmental and corporate protection. We are operating in more than 35 countries around the world with specially selected and trained unival distributors, who represent our multi-level-protection philosophy.

As a German group we guarantee supreme quality standards, customer-orientated services and highest reliability to our international clientele.

With a strong focus on security solutions for governmental organizations, NGOs and multi-national companies, we develop and manufacture individual products as well as multi-level-security solutions that are customized for the local requirements of our clients.

Our experience and competence of more than 10 years of international business development and transactions guarantee turnkey execution of projects.

# WHY unival group?



GERMAN PROJECT MANAGEMENT



CERTIFIED ENGINEERS & PERSONNEL



STRONG LOCAL PARTNERS



SECURITY MADE IN GERMANY



RELIABLE & PROVEN SYSTEMS



COMPETENT AFTER SALES-SUPPORT



MORE THAN 15 YEARS EXPERIENCE



HIGHEST QUALITY STANDARDS



OPERATION IN MORE THAN 35 COUNTRIES



# KEEPING PRISONS SAFE WITH UNIVAL





# CELLPHONE & CONTRABAND DETECTION

## uniSCAN FMD<sup>®</sup> PLUS

With the uniSCAN FMD PLUS, cellphones and other ferrometal contrabands, such as razor blades, tattoo needles, etc. are reliably detected, even if concealed inside the body.

The uniSCAN FMD PLUS is completely passive and therefore safe for pregnant women and people with pacemakers.

Furthermore, the uniSCAN FMD PLUS can be used everywhere, even outside at the courtyard or behind doors or corners – screen inmates wherever you want, whenever possible!

Also personal objects, such as mattresses, clothes, books, etc. can be screened for contrabands.



# uniSCAN<sup>®</sup> FMD PLUS

THE MOST RUGGED,  
VERSATILE & EFFECTIVE  
TOOL FOR FINDING CELL  
PHONES, WEAPONS AND  
CONTRABANDS



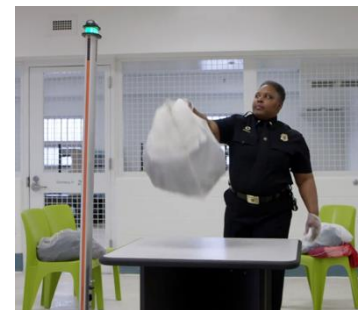
## DETECTS CELL PHONES & CONTRABANDS

Screens inmates & their belongings  
Scans ON and INSIDE the body  
Screens through walls & inside  
objects



## SCANS QUICKLY

Highest throughput  
Up to 60 people per minute  
Simple pass-by operation

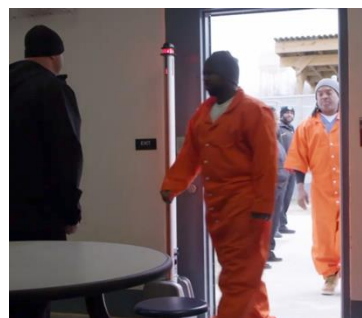


## FLEXIBLE

Cellsense<sup>®</sup> Plus is ready to use  
within 10, and can be used everywhere  
(inside and outside),  
for person or object screening.



## DETECTS SMALLEST PHONES AVAILABLE ON THE MARKET!



## PASSIVE DETECTION

Emits NO signal  
Safe for staff & inmates  
Safe for pacemakers & pregnant



## INTEGRATION INTO GEUTEBRÜCK G-SIM

Full integration into  
Geutebrück's Alarm Management  
System for covert inmate  
screening via unival plugin

# FULL BODY X-RAY SCREENING

## COMPASS SMART

The COMPASS SMART is the newest generation of full body scanners: providing high-resolution images, automatic drug detection, highlighting of threats, object & material discrimination and intuitive to operate.

Furthermore, COMPASS SMART is completely safe according to ANSI 43.17-2009 health standard for general people screening.

COMPASS SMART can be setup quickly and even transported easily to another location, if required. Also available as dual-view version.





# COMPASS SMART

THE WORLD'S  
LEADING LOW-  
TRANSMISSION  
X-RAY FULL  
BODY SCANNER



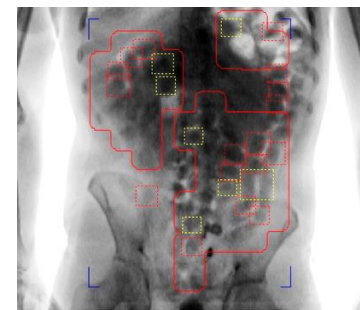
## HEALTH SAFE

Radiation safe according to US health standard ANSI 43.17-2009, as a single scan emits only  $>0.25 \mu\text{Sv}$  (single view)



## HIGH-RES IMAGES WITH ARTIFICIAL INTELLIGENCE DETECTION

Special algorithms provide automatic threat and object classification in the provided high-res full body images



## AUTOMATIC DRUG DETECTION

With the internal drug detections software "Druguard®", drugs are automatically detected and marked inside the human body



## INTEGRATION INTO GEUTEBRÜCK G-SIM

Full integration into Geutebrück's Alarm Management System for covert inmate screening via unival plugin

# VEHICLE SCREENING

## DTP X-RAY PORTALS

DTP drive-through X-ray portals have been specifically designed for screening occupied vehicles, trucks and cargo.

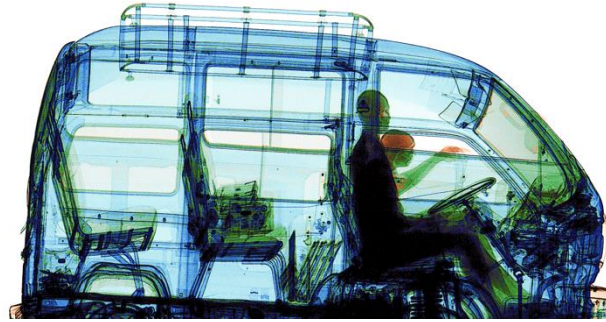
They are the perfect solution to prohibit any smuggling of persons or threat objects into or out of a prison.

The low transmission X-ray screening makes it safe for the driver and vehicle occupants, while showing the complete interior of the screened vehicles; thus making it easy to detect any smuggled person or contraband.



# DTP X-RAY PORTALS

MAKING HIDDEN THREATS VISIBLE.



## HIGH-RES X-RAY IMAGES WITH FULL MATERIAL DISCRIMINATION

All DTP systems provide high-resolution X-ray images, with full material discrimination, either with 3+1 or 7+1 color material coding. Threats and smuggled persons can be easily identified



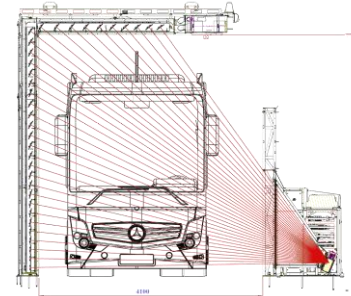
## INTEGRATION INTO GEUTEBRÜCK SYSTEM

Full integration into Geutebrück's Alarm Management System via unival plugin



## HEALTH SAFE

Radiation safe according to US health standard ANSI 43.17-2009, as a single scan emits only  $>0.25 \mu\text{Sv}$  (single view)



## HIGH STEEL PENETRATION

DTP systems provide steel penetration up to 60 mm (vehicle scanner) and 320 mm (truck/cargo scanner)



## HIGH SCANNING SPEED

Vehicles can be screened with up to 25 km/h, which provides a high traffic flow





# VEHICLE SCREENING

## uniSCAN UVMS

The uniSCAN UVMS is a state-of-the-art, automatic under vehicle screening system, which provides an unmatched quality image of the vehicle's underbody.

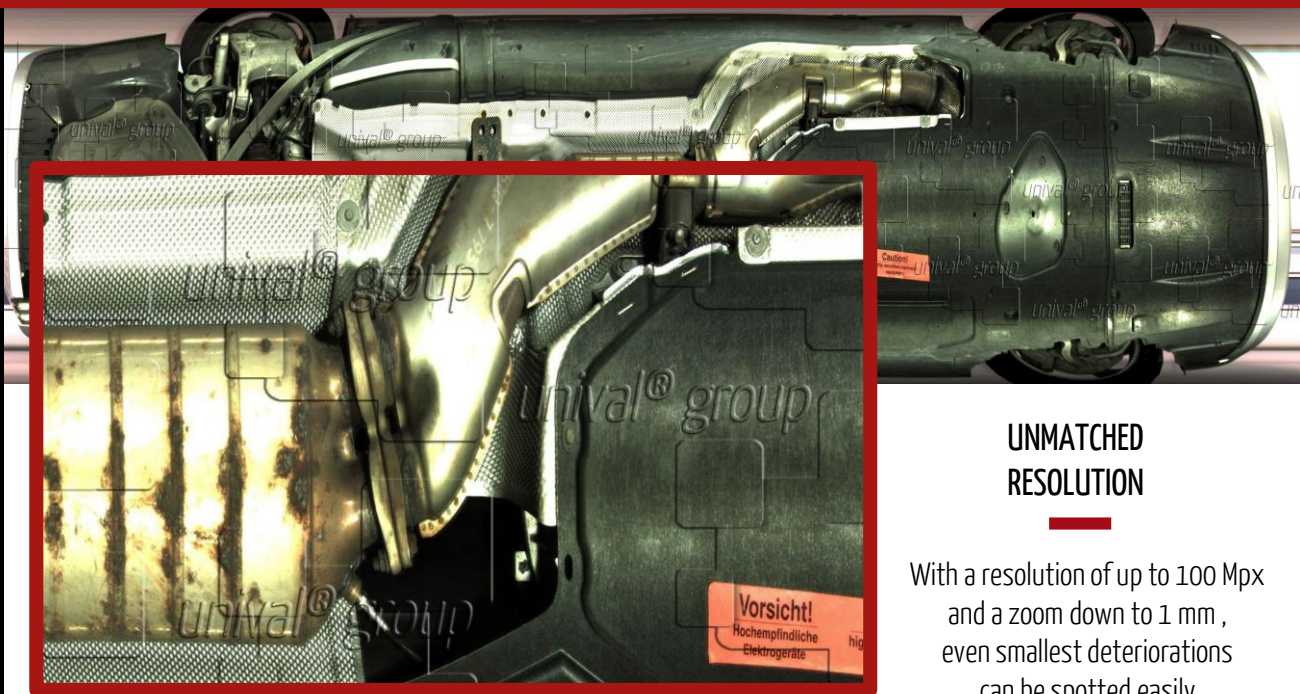
With its extreme HD resolution of up to 100 Mpx, it shows even the smallest details of the vehicle's underbody.

Furthermore, advanced AI algorithms are comparing every scan of the same car and alert the operator immediately, if something has been placed under the vehicle.



# uniSCAN UVMS

DETECTING EVEN  
SMALLEST THREATS  
OR CONTRABANDS



## UNMATCHED RESOLUTION

With a resolution of up to 100 Mpx and a zoom down to 1 mm, even smallest deteriorations can be spotted easily



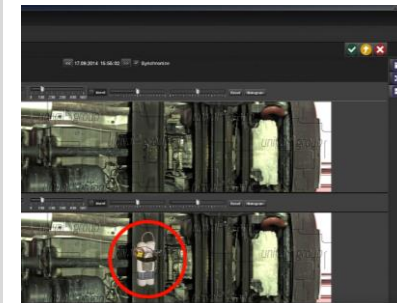
## FULL COLOR SCAN

The uniSCAN UVMS provides full color scans at every weather condition, at all times of the day



## FASTEST SCANNING SPEED

The uniSCAN UVMS can scan vehicles up to 40 km/h, without any loss in image quality.



## AUTOMATIC COMPARISON

Advanced detection algorithms alert the operator if any deterioration to previous scans is detected



# X-RAY INSPECTION SYSTEMS

## BV SYSTEM SERIES

DTP drive-through X-ray portals have been specifically designed for screening occupied vehicles, trucks and cargo.

They are the perfect solution to prohibit any smuggling of persons or threat objects into or out of a prison.

The low transmission X-ray screening makes it safe for the driver and vehicle occupants, while showing the complete interior of the screened vehicles; thus making it easy to detect any smuggled person or contraband.





# BV X-RAY INSPECTION SYSTEMS

FOR FINDING  
CONTRABANDS &  
THREAT DETECTION



## BEST MATERIAL DISCRIMINATION

The latest generation of BV systems comes with an incredible material discrimination, showing the different material types in a very clear and definite color pattern

Material Type	3 Colors	7 Colors	Possible Threat
Light Organic	Bronze	Red	Natural gas, gasoline
Organic	Bronze	Bronze	Explosives
Low Density Organic	Bronze	Olive	Narcotic
Mixed	Green	Lime	Jewelry, gems
Light Metals	Green	Green	Powder, detonators
Heavy Metals	Blue	Blue	Weapons, ammunition, knives
Dense Metals	Blue	Purple	Contraband
Impenetrable	Black	Black	Masked dangerous object

## 7+1 COLOR CODING OPTION

All BV systems come with the 7+1 color material coding option, thus giving the operator more detailed material separation



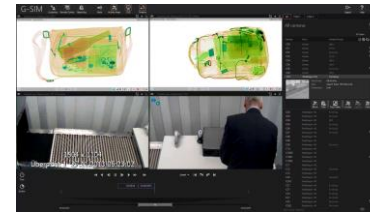
## ADVANCED AI THREAT DETECTION

Artificial intelligence helps to detect and identify even the most concealed threats & contrabands



## TOUCH SCREEN OPERATION

The GUI of all BV systems has been specifically developed for touch screens, thus making the operation more efficient than ever.



## INTEGRATION INTO GEUTEBRÜCK

Full integration into Geutebrück's Alarm Management System via unival plugin



## RELIABLE & SAFE

All BV systems are operational proven under harshest conditions, while providing highest safety and superior image quality





# BV X-RAY INSPECTION SYSTEMS

VERSATILE &  
DESIGNED FOR  
PRISON ENVIRONMENT



BV M.A.X.



BV 5030CA



BV 6045DV



BV 100100DV



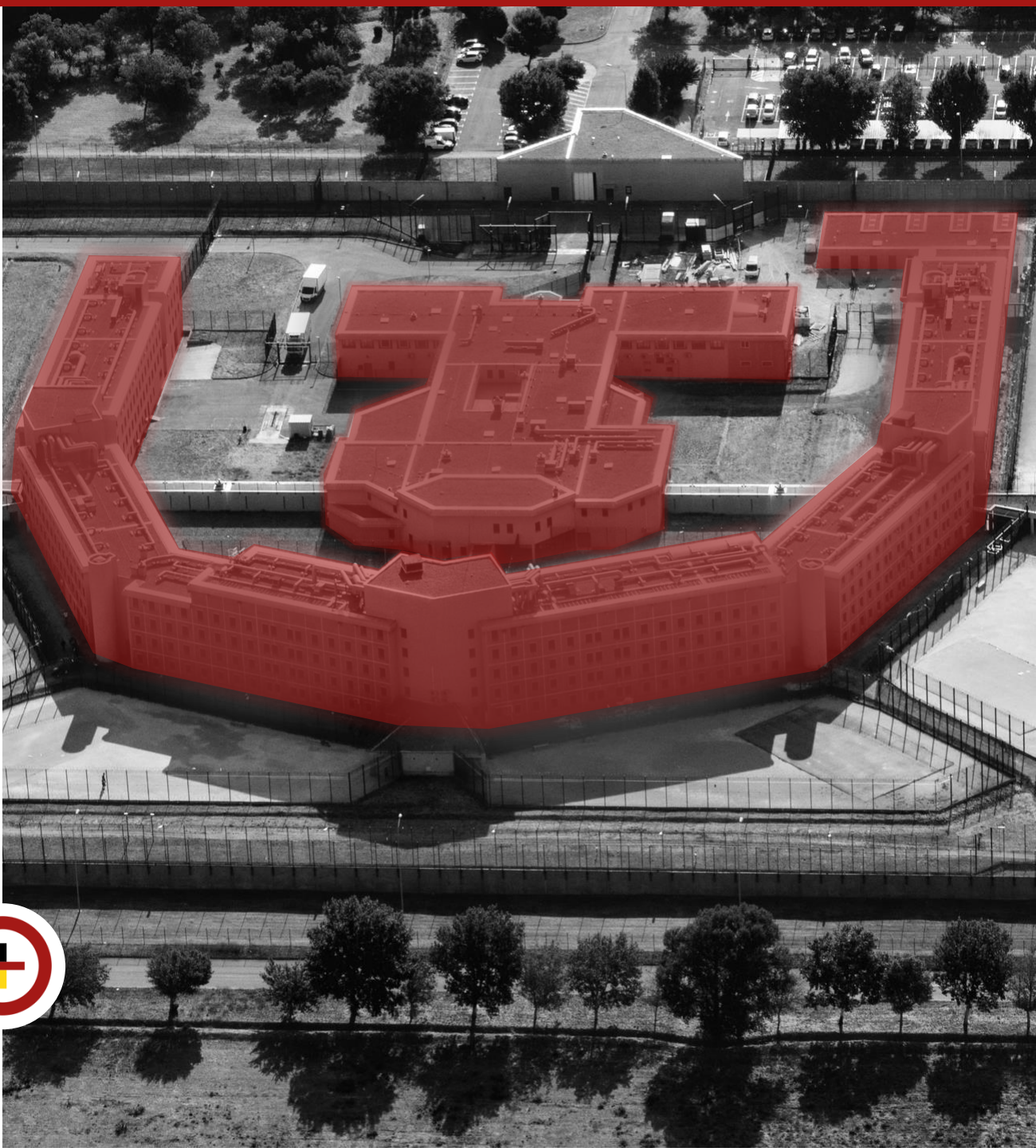
# XWJ2 JAMMING SYSTEMS

## COUNTERING ANY TRANSMISSION

Smuggled communication devices, such as cellphones, smartphones, mini phones, etc., are still one of the major threats in prisons, as they are used to coordinate the drug trafficking, escape attempts and other criminal activities.

The XWJ2 digital jamming series by unival counters any transmission via blocking the used frequency.

XWJ2 jamming systems are customized for each prison and are amongst the leading “smart jammers” available on the market – high-tech made in Germany.



# XWJ2 JAMMING SYSTEMS

SMART DIGITAL  
JAMMING OF THE  
NEXT GENERATION

COUNTER-UAS  
SOLUTIONS



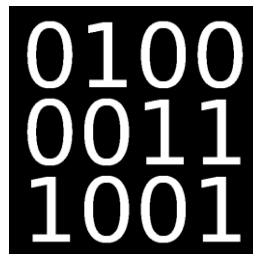
HF SHIELDED ALUMINUM CASE WITH  
ACTIVE COOLING AND HIGH-GAIN ANTENNAS

The XWJ2 consists of specially designed Aluminum modules, which are completely HF shielded and have an integrated cooling system. Special high-gain antennas are selected for maximum output power.



MODULAR DESIGN

Due to its modular design, the XWJ2 can be easily maintained, extended and upgraded



DIGITAL SYSTEM

Frequencies, jamming modes, output power and other parameters can be freely programmed for maximum performance



INTUITIVE SOFTWARE

The XWJ2 software allows easy programming and setup of the jammer. Special algorithms are automatically providing optimized settings



BAND-SELECTIVE JAMMING

Band-selective jamming ensures maximum performance on all relevant threat frequencies.





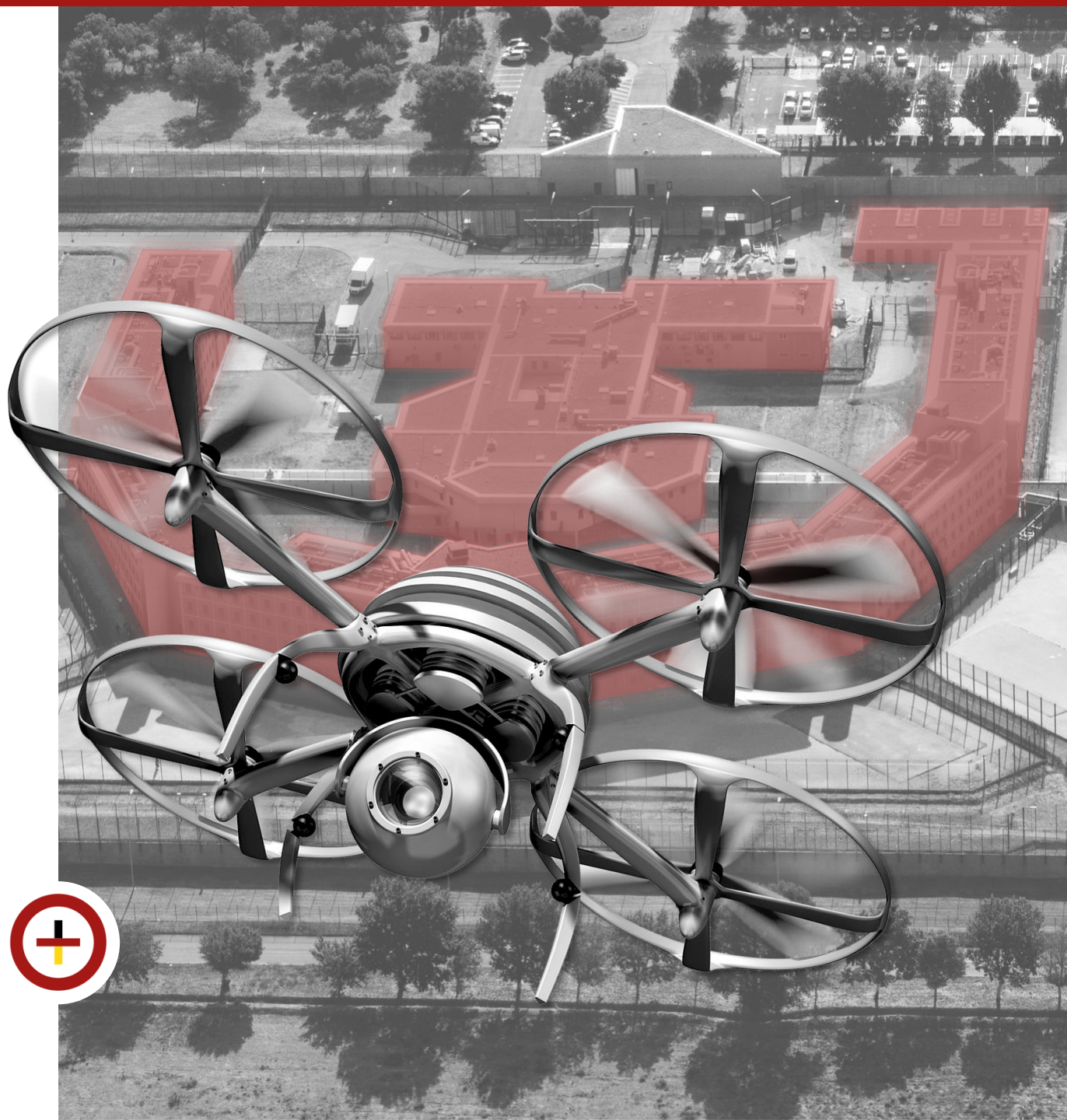
# unival DRONE DEFENCE SYSTEM

## DETECTION, SOFT- & HARDKILL OF DRONES

Drones and U.A.V.s are becoming a larger security threat at prisons, as they are often used to deliver weapons, drugs and other threats and contrabands to inmates.

In the worst case, this can lead directly to armed prison outbreaks.

The unival DRONE DEFENCE SYSTEM consists of several specialized subsystems, which can detect incoming drones, jam them or, as a last solution, emit a directed high power electromagnetic pulse (HPEMP) to bring them down on spot.





# unival DRONE DEFENCE SYSTEM

REDUNDANT DEFENCE SYSTEMS AGAINST INCOMING DRONES



## ALL-IN-ONE SOLUTION

The unival DRONE DEFENCE SYSTEM includes subsystems for detection, identification, soft kill & hard kill of drones



## RADAR

The advanced radar system identifies incoming drones all day and in every weather condition



## THERMAL FUSION TARGETING

For confirmation and real-time tracking of incoming drones, the T-REX comes as a complete solution with advanced targeting algorithms



## JAMMING

The XWJ2 jammer is the first line of defense for a targeted soft kill of the drone, thus forcing her to land, hover on spot or fly back.



## HPEM

The High Power Electromagnetic Pulse disables the drone, before it can reach the prison and is therefore the ultimate defence.



**THIEM  
SECURITY  
SOLUTIONS**

# THIEM SECURITY SOLUTIONS

VIP protection, governmental institutions, value protection, a high risk environment, the protection of critical infrastructure – there are many reasons why our clients need exceptional protection.

THIEM Security Solutions is the prime manufacturer for customized high-end building security made in Germany. For more than 27 years, we manufacture a wide range of building security products, completely tested and certified in Germany, ranging from bullet resistant windows to completely blast protected guardhouses.

Furthermore, the conceptualization and realization of high-security gateways up to completely secured building complexes such as prisons, embassies and similar critical infrastructure is one of our core competences. All of our products fit seamlessly into the building design and architecture, thus not showing its high-protection value, if required.



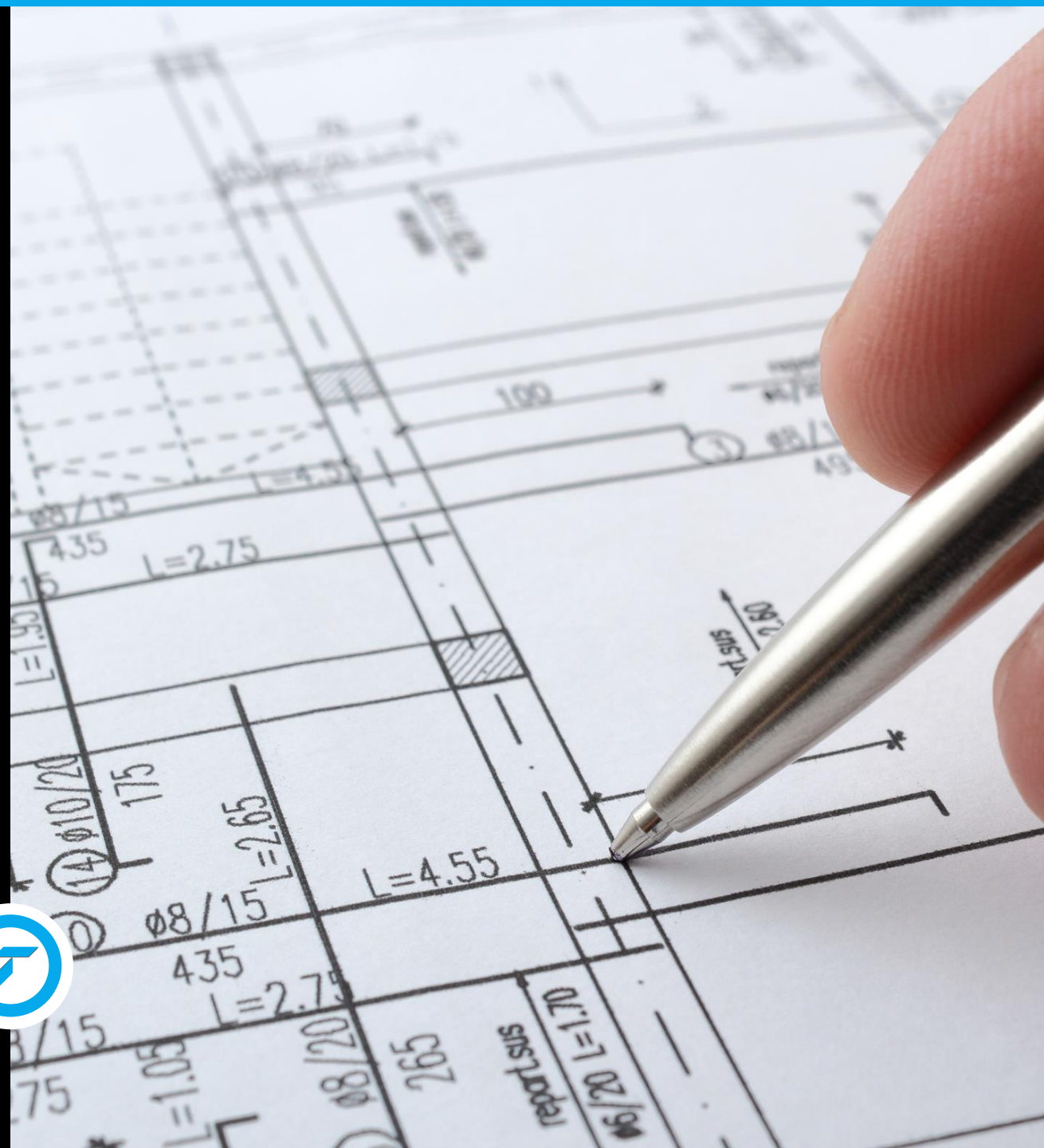


## DESIGNING SECURITY

“Architecture as a mirror of its time” proposes an optimal functional structure of buildings also for prisons. Penal institutions are supposed to attend to their task of social rehabilitation in a modern, objective and unobtrusive way, but especially without posing a direct nuisance for its neighborly environment.

Exemplary for that is the modern and newly built penal institution Augsburg-Gablingen.

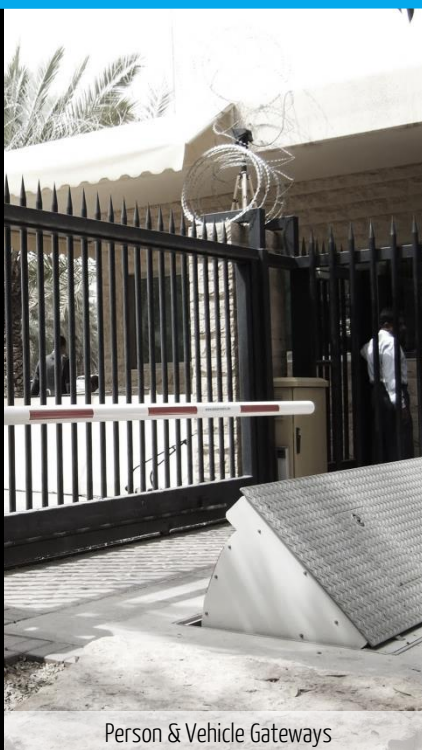
It is equipped with modern security facilities and with its overall concept it supports not only the work of its employees but will have a positive influence on the term of imprisonment and social rehabilitation of its detainees due to its bright and friendly architecture.





# HIGH-QUALITY BUILDING SECURITY

THIEM Security Solutions – high-security & certified construction solutions, such as ballistic doors and windows, fire protection, blast resistant walls, forced-entry protected building parts, blast-protected guardhouses, etc.



Person & Vehicle Gateways



Guardhouses



Glass



Visa counters



Blast facades



Doors & Gates



Prison Buildings

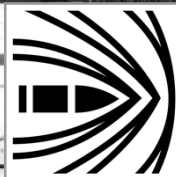
# HIGHEST PROTECTION LEVELS

At THIEM Security Solutions provide highest protection against multiple threats. Due to our inhouse R&D, we are able to offer resistant classes, where others quit.

At THIEM Security Solutions we test all of our manufactured items and constructions according to the hardest conditions available.



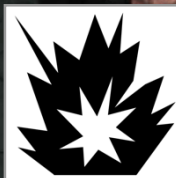
**FORCED ENTRY & BREAK-OUT**  
ACCORDING TO DIN EN 1627/1630 UP TO RC6



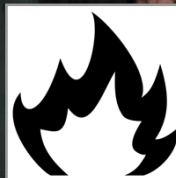
**BULLETS**  
ACCORDING TO DIN EN 1522/1523 UP TO FB7-NS & VPAM 10 (7,62X54 R)



**ARTILLERY GRENADE**  
ACCORDING TO STANAG 2280 UP TO C5



**BLAST & EXPLOSION**  
ACCORDING TO DIN EN 13123 & ISO 16933 UP TO EXR 3 & GSA 3



**FIRE**  
ACCORDING TO DIN 4102 UP TO F90



## CERTIFIED IN GERMANY

All of our products are tested and certified in Germany by independent authorities and test laboratories, including Beschussamt Ulm & Mellrichstadt, IABG and others.

Furthermore, THIEM Security Solutions has several in-house testing systems, in order to simulate harshest and most extreme stress conditions for our materials and products.

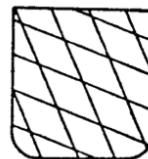


IABG

IABG Lichtenau



Beschussamt Ulm



Beschussamt Mellrichstadt

*der Bundeswehr*  
**Universität München**

University of the German Armed Forces



PFB

Prüfzentrum für Bauelemente

# PRISON BUILDING GATEWAYS

We design & construct turn-key vehicle & person gateways, which make sure that all incoming and outgoing traffic is controlled and checked in the most secure way.

- Design & construction of complete gateways & interlock systems
- High security gates, doors & document counters
- Automatic traffic control systems
- High security bollards & barriers
- Blast protected interlocks
- Integrated screening systems by unival

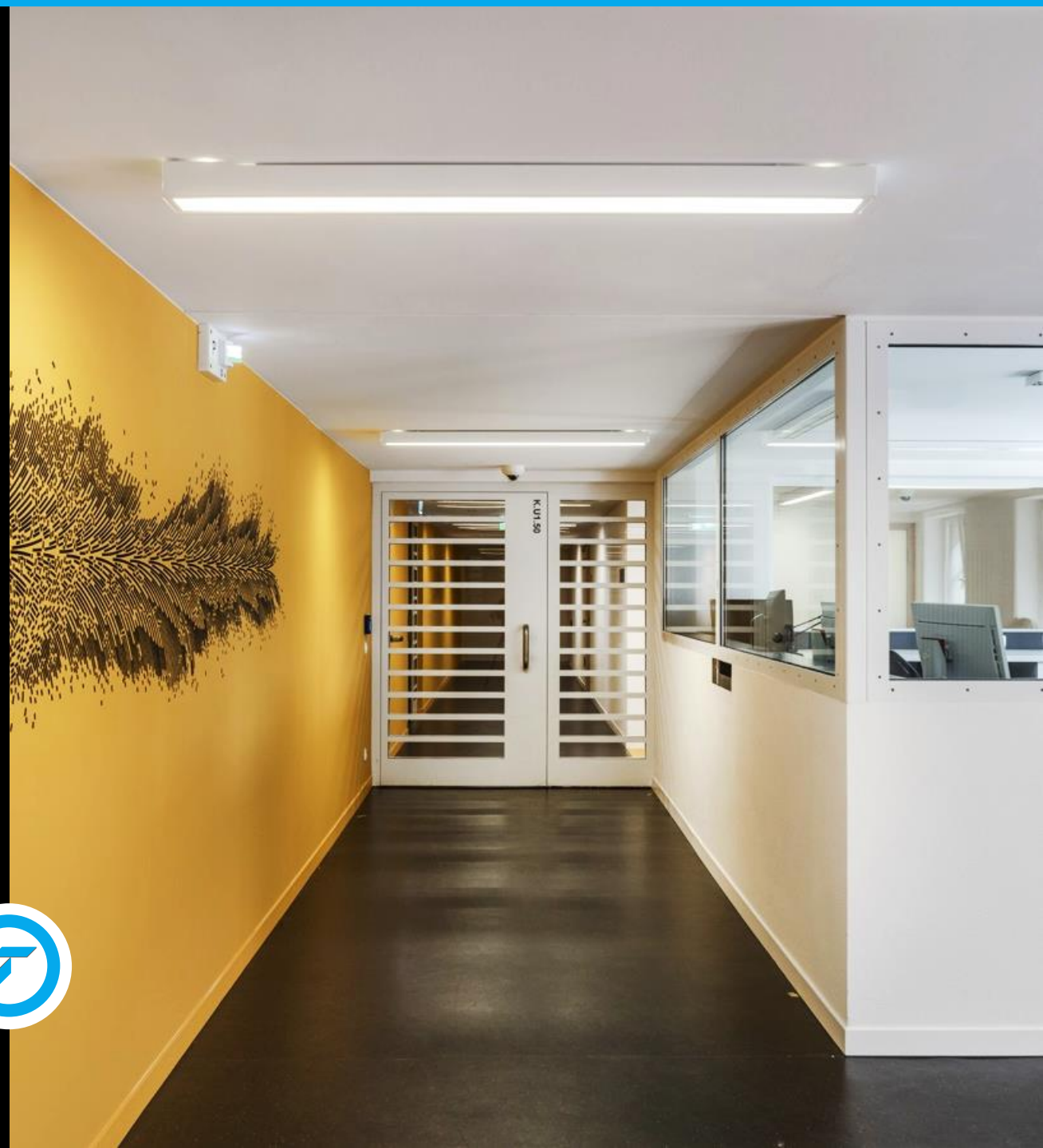




# PRISON BUILDING INTERIOR

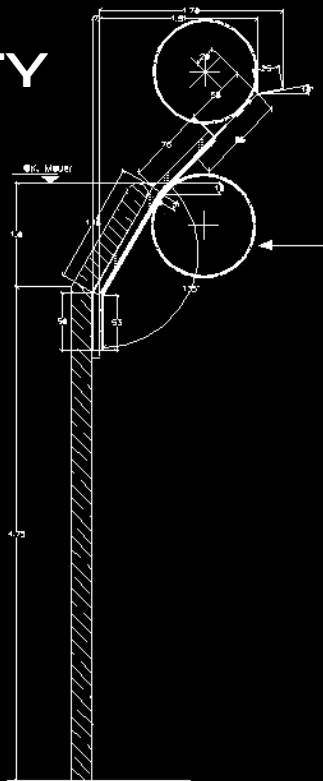
THIEM Security Solutions is a specialized builder for prison interiors, designing and building the following elements:

- Security Center
- Command Rooms
- Server Rooms
- Vehicle Gateways
- Person Gateways
- Visitor booths
- Holding cell doors & windows
- Outer & access doors
- High security windows
- Fire protection doors & elements
- Blast protected building structures
- Transfer trays with intercom system



# HIGH SECURITY FENCES

Thiem Security Solutions installes also high -security fences made in Germany, which provide unmatched quality and durability.



- Made out of highest-quality corrosion free materials
- Highly resistant against forced entry / break out with tools
- Integrated detection sensors
- Ballistic resistance fences
- Crash-rated fences
- RPG pre-detonation screens
- 2-Layer-Fences





# ANTI-RAM GATES

THIEM Security Solutions has a long experience in constructing highly-resistant anti-ram security gates, which are specially protected against forced entry and break out.

- Different gate types, like sliding gate, roll gate, turn gate
- Highly resistant against ram and forced entry/break out
- Highly customized according to local requirements
- Highest protection classes (certified)





# HIGH SECURITY CELL DOORS

THIEM Security Solutions is one of the leading providers of high-quality, customized prison doors, which are setting a new standard in terms of resistance against forced break out, durability and customization.

- High-quality prison doors
- Tamper-proofed
- Highest resistance class against forced entry/ break out
- Heavy-duty hinges
- Durable and reliable
- Smart, motorized locks from STUV



# BLAST PROTECTED GUARDHOUSES

All of our high-security guardhouses are specifically designed and tested to withstand explosion blasts up to STANAG level, along with the highest burglary and ballistic protection.

- Highest protection levels against ballistics, blast, fire & forced entry
- Various forms and designs
- Flexible configuration (e. g. Guardhouse, Command & Control, Server Room, etc.)
- Made in Germany according to highest German quality & protection standards
- Turn-key delivery and fast installation at customer site, relocatable
- Tested and fully certified in Germany



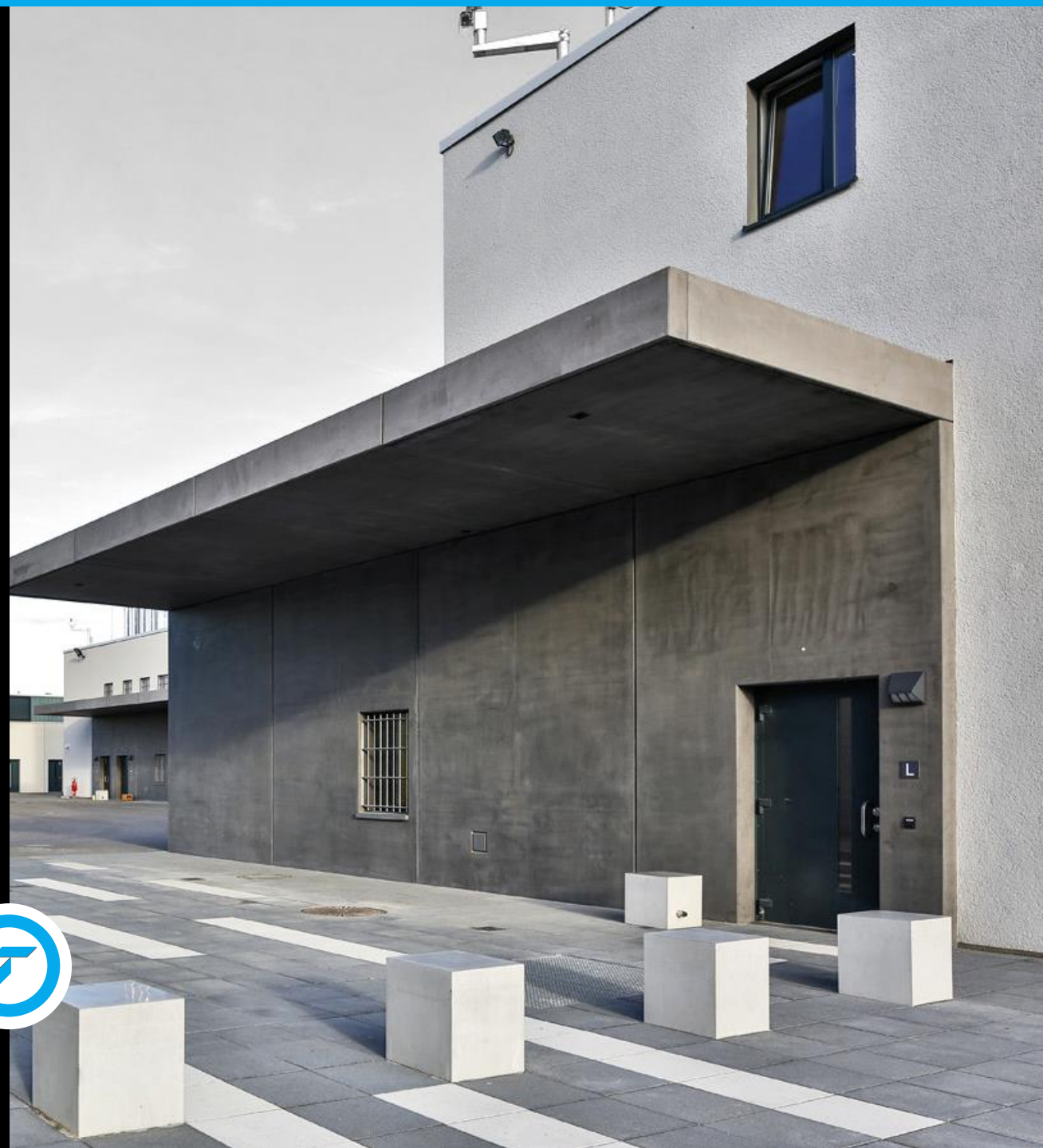


# CORRECTIONAL FACILITY FACILITY GABLINGEN

For the penitentiary in Augsburg-Gablingen, Germany, THIEM Security Solutions built and integrated

- Customized high-security windows and doors,
- Both bullet resistant (level FB7) and breakout/forced-entry protected (level RC5),
- Blast and ram-protected doors and gates, together with
- State-of-the-art gateways for person and vehicles and
- Completely protected guard houses.

All supplied security items had to fulfill the most demanding German federal security standards. Furthermore, all integration needed to be done according to German quality standards, along with a precisely timed time plan.







**GEUTEBRÜCK**

**VIDEO SECURITY &  
ALARM MANAGEMENT**



## **MAXIMUM SECURITY. MAXIMUM EFFICIENCY.**

Geutebrück is a medium-sized family business, which is managed in the second generation, independent of authorities, institutions, shareholders or banks.

For almost 50 years, we have been consistently offering high quality Made in Germany, planning security, flexibility, reliability, loyalty, expertise and service, which are powerful, flexible, reliable and backed with expertise and service.

This combination makes us one of the world's most sought-after providers of video solutions. With employees worldwide, our subsidiaries and international partners on all continents are really very proud of our commitment to excellence!

**Innovation made in Germany**

**Represented worldwide**

**Quality is our claim**

# ESCAPING & CONTRABAND TRADE

- Automated alarm in the event of escape attempts
- Prevention of false alarms
- Detection of smuggling over fences







## PERIMETER PROTECTION

- Reliable alarm in the event of escape attempts with video content analysis
- Detection of items, e.g. contraband, tools
- Security of extensive areas with a single networked system
- Day/night cameras with megapixel resolution and IP thermal imaging cameras

### ADVANTAGES:

- Monitoring of sensitive areas with intelligent alarm zones
- Immediate responsiveness in the event of escape attempts
- Clarification and prevention of smuggling “over the fence”
- No false alarms thanks to video content analysis
- Identification of sabotage and manipulation

# SEAMLESS OVERVIEW

- Protection of entrances and exits
- Identification of tampering and smuggling
- Monitoring of inmates
- Documentation of visitors and suppliers





## ACCESS CONTROL

- Automatic license plate recording
- Individual definition of access rights
- Interface to access controls (visitors and suppliers)
- Interface to X-ray scanners

### ADVANTAGES:

- Complete control of vehicle movements
- Efficient access control and visual documentation
- Central processing of access permits
- Clear reporting of visitors, suppliers and lengths of stay
- Identification of contraband events involving visitors or suppliers



## SECURITY & PRIVACY

- Pixelating or masking of people and image areas
- Flexibly definable private zones, e.g. sanitary facilities
- Extensive audit and reporting function

### ADVANTAGES:

- Observance of the privacy of inmates
- Conformity with data protection and compliance rules
- Detailed, tamper-proof logging of all operating procedures





## CELL OBSERVATION

- Hidden or obvious camera installation
- Highly resistant camera housing
- Infrared lighting night for night observation

### ADVANTAGES:

- Observation of violent inmates
- Suicide prevention
- Manipulation detection
- Privacy protection



# DATA PROTECTION

- Extensive audit and reporting function
- Tamper-proof and conclusive documentation of all reports, operator control actions and changes by administrators

## ADVANTAGES:

- Harmonization of all security processes
- Protection against manipulation with an unchangeable audit trail
- Overview of reports with reporting function







**STEINBACH  
& VOLLMANN**

1

ESTABLISHED 1883

2

BASED IN  
HEILIGENHAUS

3

160 EMPLOYEES

4

€ 21 MIO. TURNOVER

5

4 PRODUCT FIELDS

6

32% EXPORT RATIO

7

MADE IN GERMANY

8

FULL RANGE  
PRODUCER



# HIGH SECURITY

## OUR PRODUCTS



Single Bit Locks



Double Bit Locks



Flap Locks



Visualisation



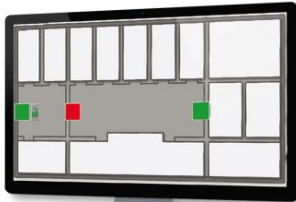
Transponder



Motorized Locks



Preventive Detention

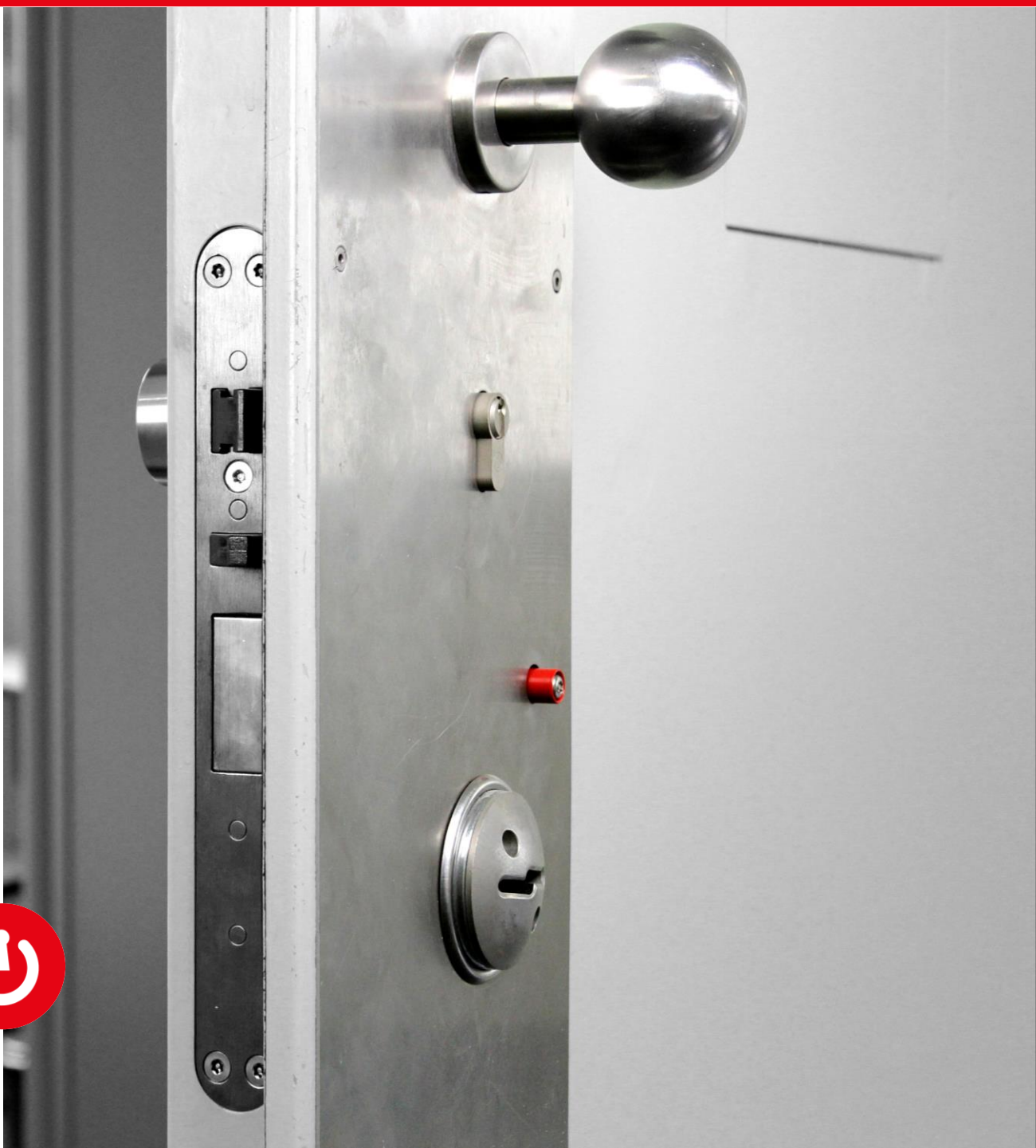


Controlling





**HIGH SECURITY  
LOCKS BY STUV**



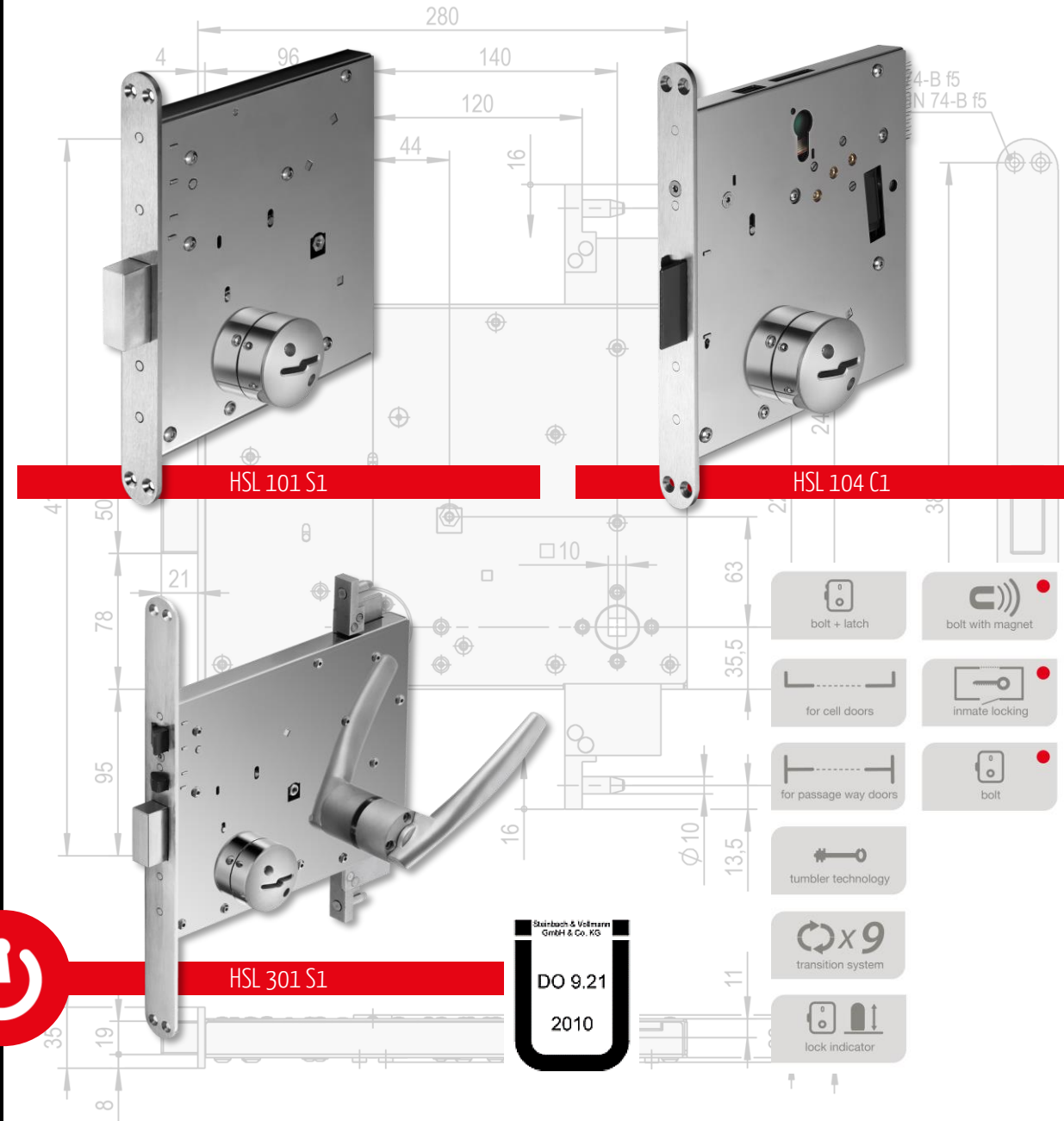
# THE HSL SERIES

The STUV HSL series is setting the leading standard in terms of quality and security.

The HSL series consists of mechanical locks, as well as the next generation of „smart“ locks, which can be centrally monitored, controlled and which are especially tamper-proofed and manipulation resistant.

## UNIQUE FEATURES:

- Industry-leading standard in terms of quality & security
- Made out of stainless steel
- Maintenance-free levers
- Manipulation resistant
- Integrated into the door with security screws
- Special security keys
- Central & remote monitoring & operation (depending on HSL type)
- German Ü-certificate



# THE NEW PRISON CELL TERMINAL





# THE NEW PRISON CELL TERMINAL

Security technology, equipped with versatile digital capabilities, acts as a supporter in the side of the prison staff. The new prison cell terminal combines information and interaction into a single unit.

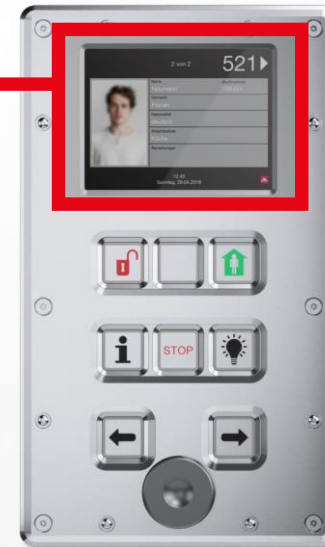
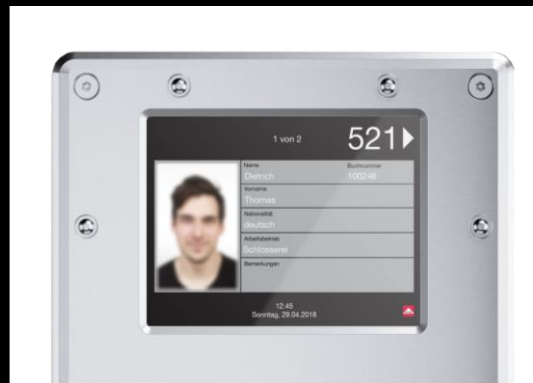
- Transponder-based access
- Manual locking/unlocking, as well as time based locking schedules
- Lighting control
- Cell inmate information
- Centralized & remote cell management



# FULL INFORMATION

Aside of the security features, the new prison cell terminal provides vital information about the inmate(s) in the cell, such as:

- Name
- Prisoner ID
- Nationality
- Working area
- Detention remarks
- Illnesses
- Security level
- Status

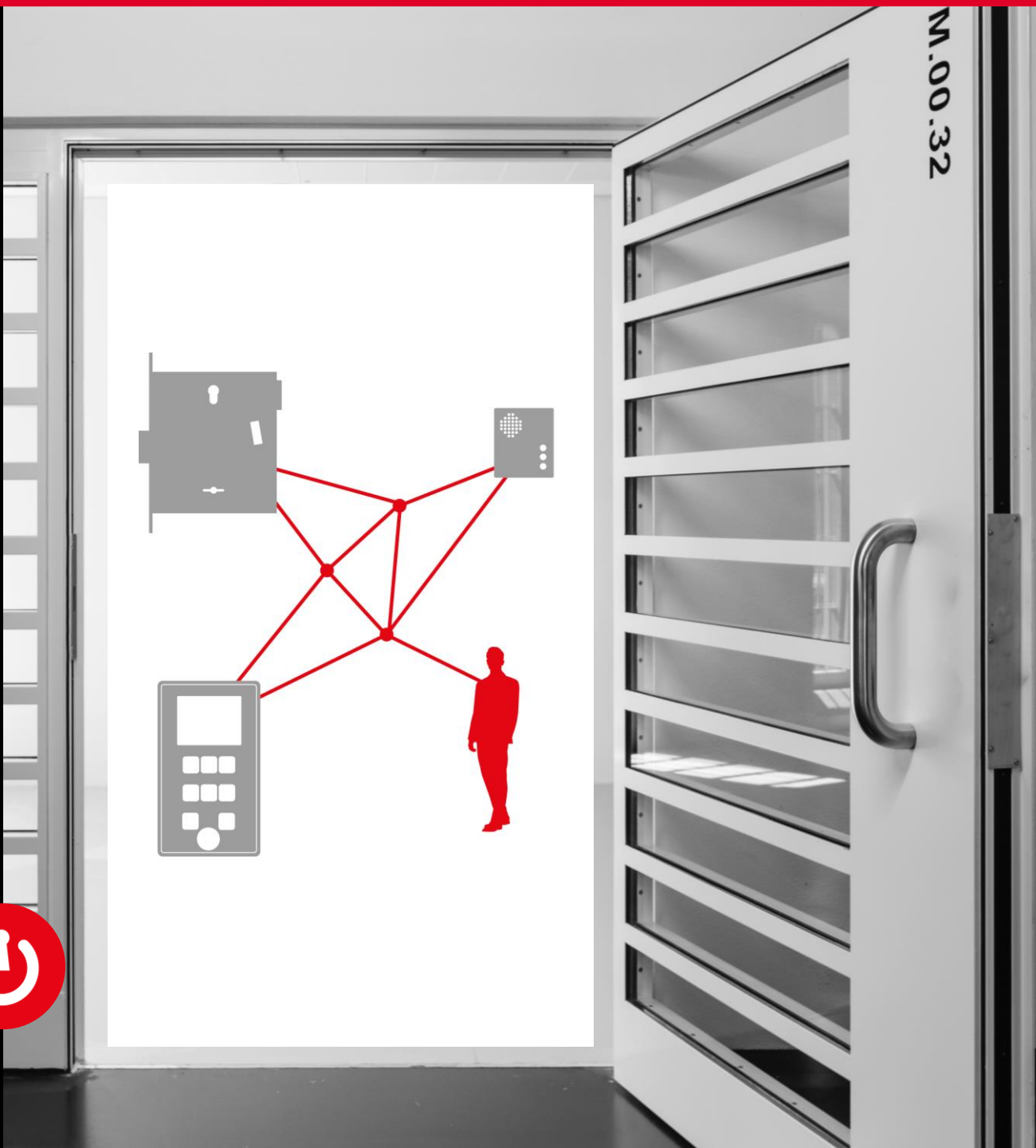


## OPTIMALLY NETWORKED

The HSL terminal is connected to the central unit via TCP/IP. The terminal can be operated from the detention room or via a graphical user interface in the control centre.

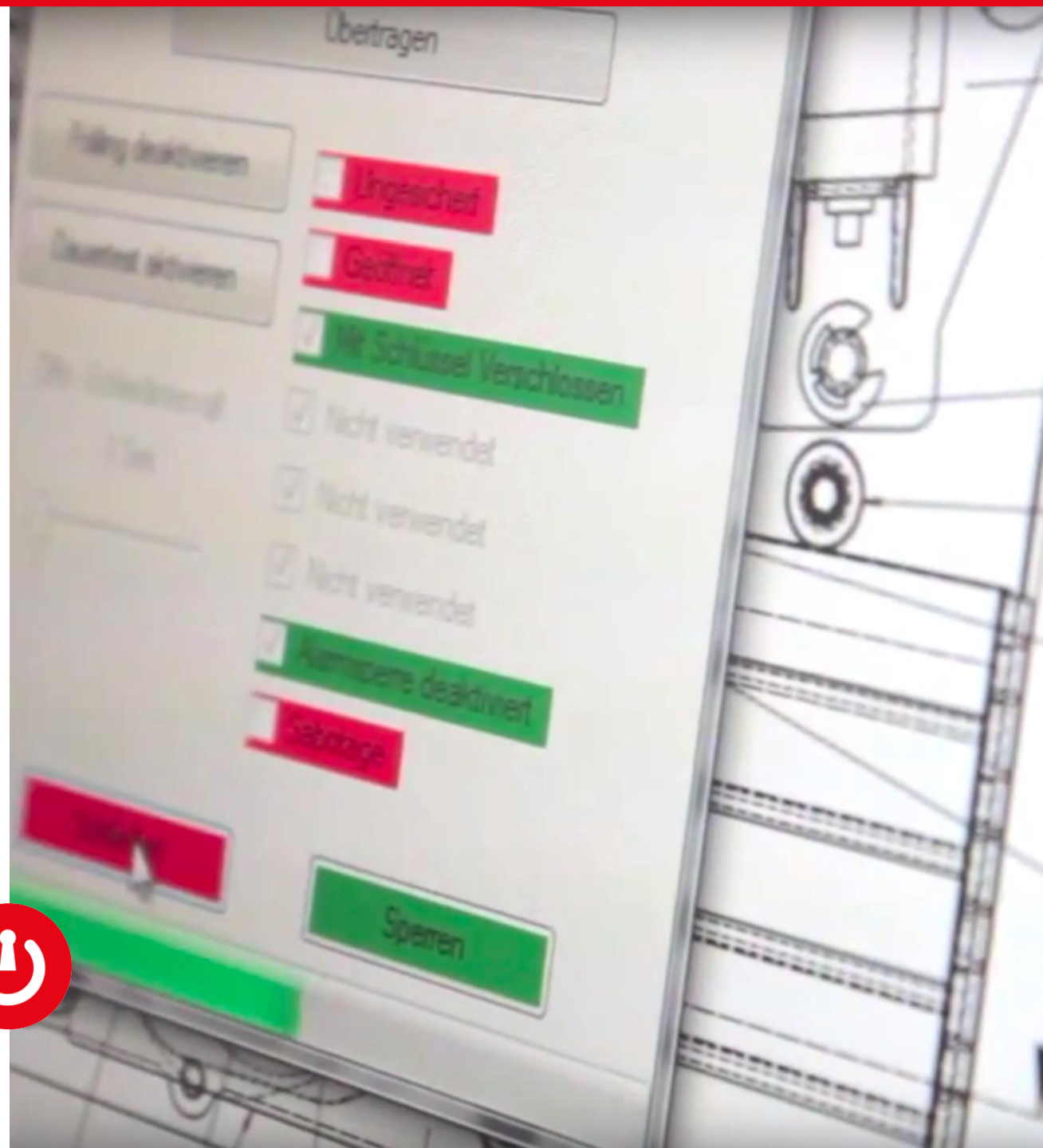
The status of the detention area is displayed graphically at all times on the screen at the terminal and in the control centre.

The operator is relieved by the networked adhesive space technology and can concentrate on important work contents.





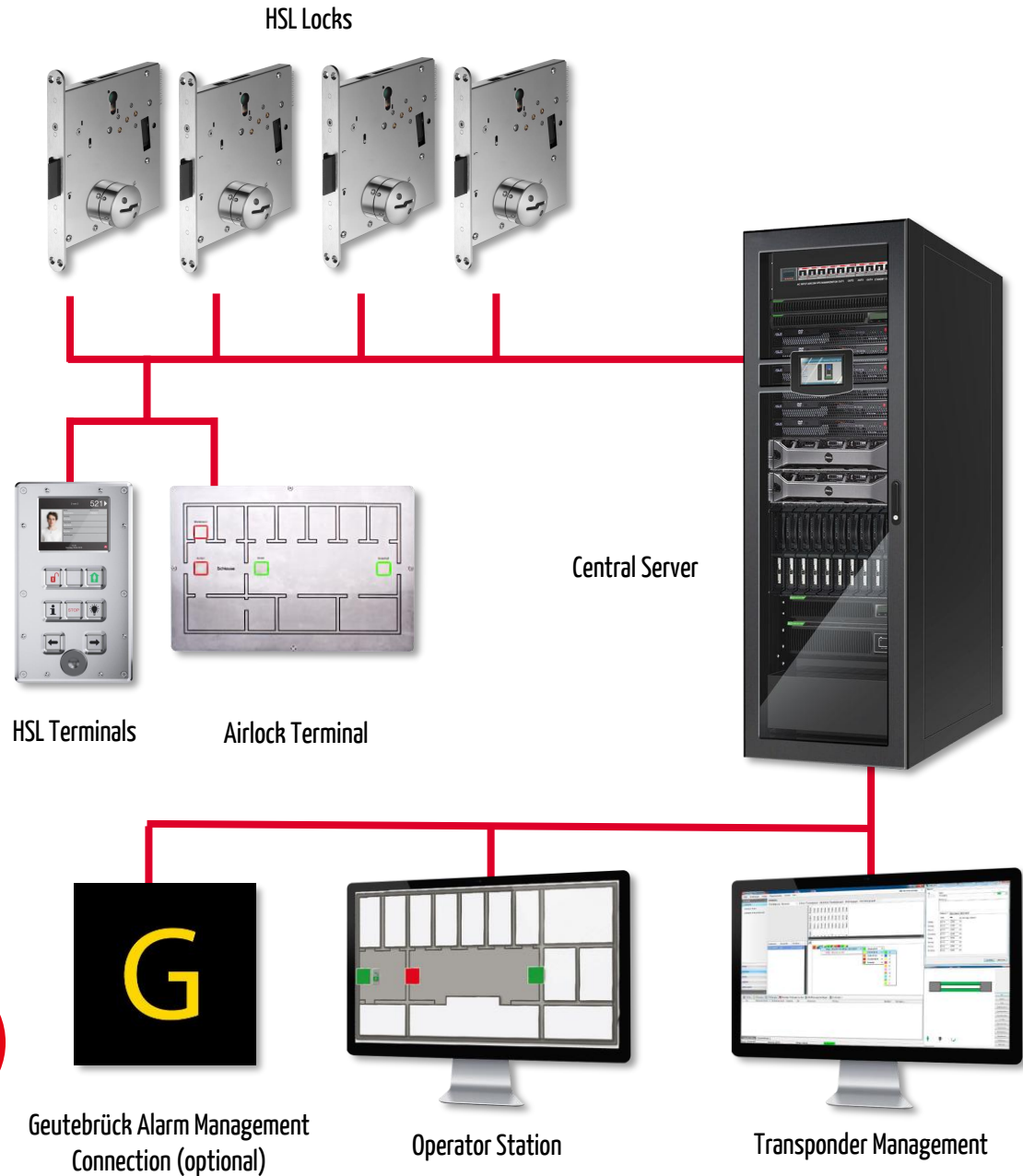
**CENTRAL  
MANAGEMENT  
VIA PRISON  
NETWORK**

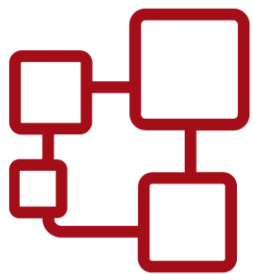


# SMART PRISON

In modern and “smart” prisons, several security systems are constantly and remotely monitored and operated. With locking systems by STUV, the next level of security is reached, as the following functions are integrated to a complete solution:

- Remote monitoring & operation of all HSL locks
- Centralized data management & monitoring of HSL terminals
- Transponder management
- Intelligent airlock control
- Integration into G-SIM Alarm Management System by Geutebrück (optional)





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