



### WORD FROM OUR CEO

Globally, 2022 was a challenging year for everyone. As a company, we took the opportunity to question ourselves, our products and our service. How does Locinox look back, while preparing for both short-term and long-term future? Here's a word from our new CEO, Bram Dieryckx.

"The ambition of Locinox has always been to focus on what we know best and to do this relentlessly. We try to truly understand the needs of our customers and thus find innovative solutions to their needs. Our challenge is to create a range of client optimized products that we ship within 24 hours, that have premium quality and are easy to install.

Our clients are our partners, which is why we work side-by-side to develop solutions to match their specific needs. This is how we came to the Uniwing concept, which is based on a modular range. A wide range of products that fit in a standard hole pattern, offer installers flexibility and ease of installation, while it allows gate manufacturers to fully standardize 1 type of wing that can be used in very different set-ups.

Our innovation-seeking engineering team strives to consistently improve our products and optimize installation flexibility and performance. If our foundational LAKQ lock has become your market standard, it's because Locinox has always stood for quality. We will continue to test our products to the extreme, so we can promise to uphold the same standard.

#### MOMENTUM

"Despite world economy taking a hit in 2022 and the uncertainty of what 2023 might bring, I am confident that we can maintain the momentum of our significant growth in 2021. We will continue to invest in new products and solutions, but also in our already strong and competent teams, from R&D through sales and customer service to logistics.

To make sure our partners benefit from our innovative mindset, we plan on improving and expanding our basic portfolio. As the outdoor market evolves towards automation, we now also develop electrical and motorized products. The market reacted enthusiastic about the Fail Open version of our motorized drop bolt, Electradrop and the Valentino, a battery powered code lock. We look forward to launching our first motorized gate closer, the Venus, in 2023. We will continue to invest in developing digital access control and motorized gate accessories for our core markets.

BRAM DIERYCKX, CEO

Moving into our brand-new Smart Factory of the Future next year will mark a major milestone for Locinox. Our new headquarters will enable us to further expand our service. On top of additional steps in warehouse automation and capacity, a state-of-the-art design center to attract talent and a brand-new experience center to engage with our partners, we are making a great leap forward in sustainability in every form.

> This Innovation Journal reveals a sneak peek of our innovation pipeline, with some completely new and advanced ideas and there is still much more to come."

### **SMART FACTORY OF THE FUTURE**

2022 was the year in which our Smart Factory of the Future started taking shape. With a planned 40.000 m<sup>2</sup> operating surface, we will be tripling our current capacity, which is necessary to fulfill our promises to our clients.

An important part of this area will be our large warehouse, which will have more than 18.000 pallet spaces. There will also be a fully automated mini load warehouse with 80.000 bins to supply our packaging line and 5 cranes to move the products. This will ensure that we can deliver over 2.000 products within 24 hours. To guarantee the success of the automated picking, an extremely level flooring is required in the warehouse. If there is more than 2 mm difference on a surface of 60 m x 100 m, the cranes will not be able to place pallets at 14 m height.

The building will be heated and cooled by sustainable renewable energy. Therefore 132 geometric drillings were done up to 58m deep. The continuous cycle that will be created, ensures that the water in the system cools down by the end of winter and heats up again by the end of summer. This will allow our new building to be cooled without a heat pump in the summer and heated by a ground source heat pump in the winter. All Locinox employees (in the factory and in the offices) will thus be able to work in the same pleasant temperature throughout the year.

While our contractors are continuously working hard on building our innovation hub this year, we already look forward to welcoming you to our new location in 2024. We'll guide you through our spacious showroom, let you get to know the experience center and offer any product information you need in the Locinox training academy.

FACTS

40.000 m<sup>2</sup> operating surface

3.000 piles support the building

80.000 bins in automated warehouse

132 geothermal drillings

570.000 L

#### reservoir for fire protection



September 2022



November 2022

### **A FEW OF OUR INNOVATIONS IN 2023**



VENUS Motorized gate closer for pedestrian swing gates



PANICBAR Complete set to add a rim style emergency exit device to any gate



VALENTINO Surface mounted battery powered code lock



ELECTRADROP-R Motorized electrical drop bolt

### **INDOOR OR OUTDOOR, WHAT'S THE DIFFERENCE?**

Your pool isn't surrounded by the hardwood flooring you walk around on in your living room. You wouldn't move your natural fibred sofa outside or leave your dining room table there and you would definitely not close your fence with doors that you could kick down. So why would you put indoor hardware on an outdoor gate?

#### **MOTHER NATURE**

The belongings under your roof stay protected by and between the four walls of your home. Everything on the outside of those walls faces the four seasons. Mother Nature challenges us with wind, rain, dust, frost and heat. Using the wrong material for the wrong purposes can spoil your investment. From discolouring under the sun to rusting in the winter, there are plenty of risks when ignoring your materials. When protecting those outside materials from outsiders, you might want to think about placing a fence with a gate around your perimeter. You'll want to make sure that you decide who can enter, and how. That's where Locinox steps to the mark. And because of everything mentioned above, we pay so much attention to the choice and the treatment of the best possible materials.

#### PREMIUM MATERIALS AND SURFACE TREATMENT

We make sure we deliver what we promise. Over half a million test cycles confirm the success of our premium materials and differentiated surface treatment process. From E-coating, to powder coating, chrome plating and hot dip galvanization, we add strength to stainless steel and non-ferrous metals. That's why you're never left standing on the outside holding a broken handle. Before they secure your gate, our aluminium lock boxes have already undergone extensive testing against corrosion.

Self-closing gate closers are also subject to temperature changes. Thanks to our innovative Active Thermal System, our gate closers withstand both freezing as scorching temperatures. The final snap and closing speed are both consistent and adjustable. Equipped with protective dust- and waterproof anodized housing, these gate closers are protected from any weather conditions and function all year long.



## **ONE WING THAT WORKS BOTH WAYS**

How can we make the process of manufacturing and installing gates easier, cheaper and quicker? It's one of the questions our engineers ask themselves at the beginning of developing new gate hardware products.

Modularity plays a major part in our range of locks and keeps to simplify life for gate manufacturers and installers. Each wing can be updated with its specific hardware. Our products are easily interchangeable on the lock side, while the same applies for the keep side.

But what about a system that doesn't even need separated wings for the lock or keep side? A solution that allows manufacturers to produce and installers to buy 1 type of wing for either side of the double winged gates? We present to you: UNIWING.

As far as insert locks go, we added the EIGHTYLOCK to our existing range of FORTY-, FIFTY and SIXTYLOCK. Their existing Click-It fixation has undergone a slight change, which will require a different profile preparation (see below frame). This new profile preparation does not only ensure a perfect positioning of the lock. More importantly, it is an important step towards our UNIWING solution. The new cut out fits both our insert locks as the new insert keep, SFKU.

Start manufacturing 1 type of wing with the new profile preparation and decide which insert lock to combine with the SFKU insert keep afterwards. For the finishing touch, there are aesthetic trimmings to complete the gate:

- The SHIELDLINE is a profile of extruded aluminium that fills the space between the two gate wings for increased privacy and can also be applied to the hinge sides.
- The UNIWING integrated handle for the keep side.



### **MORE THAN JUST A HANDLE**

The completion of a gate lock and keep requires a manually operatable accessory. Our gate hardware range includes a section of various modular handles, depending on your preferred lock, use, strength or aesthetic design.

#### FIXED OR ROTATABLE HANDLES



3006PAD

This new handle set with rounded corners in anodized aluminum is a decorative alternative of our popular 3006FIX, with the same functionalities. The 3006PAD can be configured as two rotatable handles, two fixed handles, or one of each. Access control solutions with magnetic locks or electrical keeps have specifical needs when it comes to the handle. These often require a heavyduty solution, that also aesthetically finishes the gate. With different materials and several mounting possibilities, our 3006BAR range is now available.

#### FIXED BARS

3006BAR-I

3006BAR-A

Fixed stainless steel handle with straight or angled mounting brackets. Can be used single or double sided.

Fixed anodized aluminium handle with

straight or angled mounting brackets. Can

be used single or double sided.

#### 3006HOLD

The 3006HOLD is a variation of the 3006PAD and includes one of its handles with rounded corners. The HOLD-part of the set is permanently fixed, while the PAD can be configured as fixed or rotatable.



### ELECTRADROP FAIL OPEN FROM TOP TO BOTTOM

Do you want to protect your gate automation from wind load, with an electronical solution with power back-up to securely lock your wings? To make it better for you and your clients, the Electradrop with Fail Open feature is a solution for these situations.

The newest version of our electrical drop bolt Electradop is a motorized stainless steel drop bolt with a 120 mm throw in the ground and more than 1.000 kg holding force. This strong solution disburdens the motor and makes sure the wings stay in place. The internal battery set offers an emergency exit functionality, automatically lifting the drop bolt in case of power shortage.

We have also updated the Electradrop with several features to make the installation process easier. The signal and power wires have no polarity, which makes the wiring process safe and straightforward. There is also no need for an external relay if the flashlight input signal meets 12 to 24 AC or DC. Best to be combined with our POWERSTONE power supply. In specific situations, the newest version of the Electradrop can also be installed horizontally.

#### FAIL OPEN VS FAIL CLOSE

So when do you need Fail Open or Fail Close?

Fail Open means that the device responsible for controlling the passage automatically opens when there is a loss of signal. In relation to the Electradrop, this feature is a specific solution for collective housing and buildings. In case of an emergency or power failure, the integrated battery automatically lifts the drop bolt. This offers an emergency exit for the people inside as well as guaranteed access to the perimeter for services such as the fire brigade or paramedics.

The opposite Fail Close refers to the system that automatically closes the passage device when the signal is lost. This version of Electradrop closes, or keeps the drop bolt closed, during power shortage. This solution specifically suits residential situations.

#### Learn more about ELECTRADROP

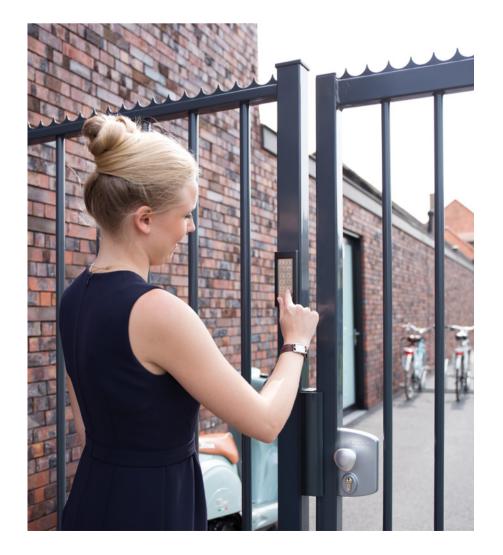


#### **EXTRA SECURITY THANKS TO AN EXTERNAL RELAY**

For the next step in access control, there is now a completely vandal proof Locinox solution thanks to a small plug-and-play network of several products. The combination of a keypad, an external relay and power supply, eliminates the risk of potential intruders tampering with the access control to open the gate.

The SLIMSTONE-X is our newest durable, frost-free and watertight electronic keypad that can be connected to the SWITCHSTONE-STD with a simple 2-wire cable. Installed in a safe place inside the secured perimeter, the relay is completely out of reach for intruders. Also attached to the long-distance cable is the POWERSTONE, a high-quality 60 W switching-mode power supply. It powers both the keypad as well as its external relay. After a plug-and-play installation, the POWERSTONE is the power supply with an integrated overload indicator.

Powered by POWERSTONE, the 2-wire network can combine several products up to 300 m distance.





## VALENTINO PROVIDES WIRELESS ELECTRONIC ACCESS CONTROL

Battery technology has been on the move for the past few years and that has had its effect on Locinox too. We launched the VALENTINO, the first electronic access control solution that doesn't require an external power supply. This has been coming for quite a while. Thanks to the latest developments in battery technology, there's finally a wireless solution that meets our strict quality requirements. These batteries are extremely long lasting and continue to operate flawlessly in dire weather conditions.

#### LIFESPAN

With merely one set of six batteries, the VALENTINO has a lifespan of 150.000 open and close cycles before the low battery sign lights up. The e-coated lock box neatly conceals the water and vandal proof battery compartment, withstands over thousand hours salt spray testing and is resistant to extreme weather conditions. The perfect fit for anyone looking

180°

to add access control to their gates without running electrical wiring. We finally have a wireless electronic solution.

#### **ENDLESS POSSIBILITIES**

The VALENTINO has an illuminated code panel on both sides, accepts permanently open codes and supports free exit, pushbar and code-operated handles. After an easy installation there's an equally easy setting of access codes, up to 100 different ones. A key overrules the codes and grants access to the programming mode. These options enable the VALENTINO to offer solutions to public buildings, without them needing maintenance.

BATTERY POWERED



VARE



500 K



Learn more about



### **UPGRADE YOUR GATE**

This new solution not only empowers manufacturers to design new gates with an electronic code lock, it also offers anyone the ability to upgrade existing gates with wireless access control.

Our standard surface mounted locks, such as the LAKQ, LAKZ and many others, can be found all over the world. They have been securing fences in every industry, from public venues to schools and pools for many years. Due to electronic access control not being a hot topic decades ago, most of these environments were not equipped with electric power supply. For anyone who has been considering to dig out the garden or break open the concrete floor just to lay some cables, the VALENTINO provides a much easier and economic solution. If the gate has a lock opening of at least 214 mm height and 110 mm width, there is enough room to replace the surface mounted mechanical lock by the VALENTINO, our battery powered electronic code lock.

### 100% MODULAR

With our standard surface mounted locks





### MOTORIZED PEDESTRIAN GATE CLOSER

With VENUS, Locinox has continued its move towards automation in all areas of our business. In gate hardware, we developed the motorized drop bolt ELECTRADROP. In access control, we recently launched the battery powered code lock VALENTINO and in gate closers, we will soon have VENUS.

Even if someone would obstruct the closing cycle by pushing the gate back, the revolutionary motor remains unharmed and simply restarts the cycle.

#### EASY

We take this step into a new direction with our core values at heart. We always want to offer innovative products that are easy to install, reliable, versatile and durable. These are all represented by our first motorized gate closer, specifically developed for pedestrian gates up to 1400 mm and 100 kg.

#### STRONG

VENUS includes a brushless reversible motor that reaches up to 150 Nm. At least five seconds after the gate has been opened, VENUS guarantees a controlled closing of it. This is enough time for pedestrians to comfortably guide their bike through the gate.

To make life easier for installers, VENUS comes with a plug and play installation process. The motor and firmware are integrated in the compact 76 mm wide aluminium shell. Mounted with Quick-Fix and accompanied with 1 of 3 possible connecting arms, VENUS offers ease and versatility in installation. As soon as the straightforward 220 V wiring has been connected, she immediately works as a reliable gate closer.

It doesn't end there. With the right accessories, you can even open many more doors for this gate closer. By simply connecting any type of access control to one of three outputs, you can turn the VENUS into a low energy gate opener.



Scan to visit VENUS AUGMENTED REALITY







### **TURNING CHILD SAFETY INTO CHILD'S PLAY**

It goes without saying that safety in general is essential. If we don't emphasize the importance of child-safe environments, then who are we actually protecting? Tables have corner bumpers, cars have parental locks and we secure stairs with safety gates. And outside? That's where Locinox comes in.

A child's curiosity knows no boundaries, which is why those boundaries need to be determined. Keeping children out of a dangerous situation is one aspect, keeping them inside a safe one is another. Knowing that they don't escape the school ground, wander away from the playground or pop out of the neighbourhood park? A fence does most of the work, but a child-safe lock provides the finishing touch.

On either side of the gate, the GUARDIMA is our solution for these situations. Installed on the inside to keep children from leaving the property, or on the outside to prevent them from entering places they shouldn't. At 1,500 mm above the ground, it's completely out of reach for children under the age of 5. The obstacle of pulling the latch up, with at 20 N resistance force, is the secondary security measure.

The strongest magnetic force in the market assures sturdy closure in the keep. To make things easier

for manufacturers and installers, we added our characteristic modularity for traditional situations with a 40 mm wide profile. The child-safe GUARDIMA fits in the same installation pattern as our surface mounted locks, so any standard gate can easily be upgraded to a child-safe one.

Of course, all of the above is irrelevant if the gate is open more often than not. That's why the combination of a child-safe lock with a self-closing mechanism is highly recommended. This perfect match guarantees that the gate closes after every passage and children will not be able to open it. The 180° CARACAL (see page 9) with adjustable closing speed is the recent gate closer addition to our child safety range.

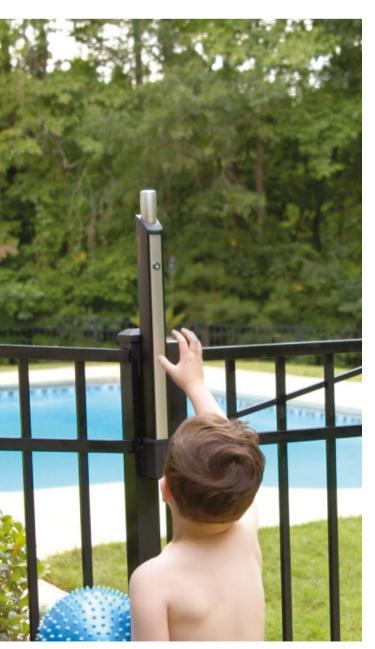
#### NF P 90-306

The combination of GUARDIMA and our TIGER gate closer was declared to comply with the requirements of the French NF P 90-306. This norm belongs to the French Standardization Association AFNOR and determines the protective elements for pools for individual or collective use.

As opposed to the GUARDIMA being mounted on the gate itself, the FORTIMA is our magnetic childsafe option installed on the fixed post. This is commonly applied in North-America, Australia and New-Zealand. The FORTIMA can be considered as an alternative to GUARDIMA to reduce the load on gate wings that are attached by lighter duty hinges.



### WHEN POOL-SAFETY BECOMES CHILD-SAFETY



Safety is a broad concept in the fencing and gate industry. There are specific products for different uses in various situations and locations. Some of these have to answer certain rules and regulations, such as swimming pool safety.

Only a few countries have established clear laws with restrictive measures when it comes to private pools. Australia, France and United States are pioneers in a matter that is far from reaching its full potential. At Locinox, we look for ways to embed every different regulation into one particular product.

Considering that children are the main focal point of these rules, there's no reason to stop at pools. They deserve protection anywhere and anytime. In more ways than one, our child-safe GUARDIMA and FORTIMA are ideal for parks, playgrounds, pools and schools.

#### **AUSTRALIAN STANDARD**

return the gate to a locked situation. This should happen without manual force or operating of the latch, which is at least 1500 mm above ground level.

#### FRENCH AFNOR

France already had more than one million private swimming pools in 2017, so it's no surprise that it is Europe's leading force in pool safety. In 2003, French prime minister Jean-Pierre Raffarin proposed a law. Every pool should be secured by at least one safety measure answering the AFNOR standards, with penalties up to 45,000 euro. AFNOR, NF P90-306 determines that safety barriers should include a locking mechanism that can't be used by children, either at 1100 mm high or with two separate unlocking actions.

#### **USA & CANADA**

As opposed to the abovementioned countries, USA and Canada do

Since mid-20th century Australian local governments have been defining the situations in which fencing is obliged. Since the Swimming Pool Act of 1990, the requirements of child-resistant barriers have been noted in local applicable versions of Australian Standard AS 1926.1 - Safety Barriers for Swimming Pools.

One clear objective is to protect children under the age of 5 in the absence of adult supervision. Specifically, fences with minimal height requirements of 1200 mm should be fitted with self-closing devices that

not have a national set of rules. Instead, there are different rules and regulations between the individual states, cities and even counties. However, there are a few requirements that find common ground.

Fences must have adequate distances from other climbable structures, have restricted openings, indentations or protrusions. The obliged outward swinging gates must be equipped with a locking device and should be self-closing and self-latching. These latches are to be installed at a minimum of 1370 mm high measured from the bottom of the gate.



## **GATE CLOSER OPPORTUNITIES**

Gate closers have become an increasingly popular and important part of our offer. We started with retrofittable gate closers for situations with existing hinges and have expanded our selection with solutions for gates still to be designed and manufactured. This has resulted in a range of gate closers for almost every possible circumstance, including wide and heavy wings in any material, (bricked) wall situations, swimming pool safety requirements and even aesthetic preferences. We already told you about the Venus, our first motorized gate operator on page 7, but we have a few other opportunities that keep your options open and your clients gates closed.







### CARACAL

With a cost-conscious design, CARACAL is a 180° gate closer with adjustable closing speed. The glass fiber reinforced polyamide housing protects the high-tech internal components, allowing for a perfect functioning in all-weather circumstances. Works together with SERVAL spring hinge and is suitable for installation on square and round frames.

The CARACAL is one of the components of our pool and child safety range and easily joins forces with our FORTIMA or GUARDIMA child-safe magnetic latch. As a result, the CARACAL is a perfect fit for swimming pools, playgrounds, parks and garden gates (see previous page).

### **RAIL-FIT**

What about ornamental gates that don't have a straightforward structure to which you can attach a regular gate closer, such as wings with unorganized diagonal bars?

You can now apply the RAIL-FIT, a stainless steel accessory to install gate closers on alternative fencing. The accessory can be clamped onto any post to mount the rail of the PANTHER, LION or VERTICLOSE-2(-WALL) gate closer.

### EXTENDED PANTHER ARM

We keep our eyes and ears open to improvements on our existing products. That's why we were happy to launch a new feature to our all-round PANTHER gate closer, which already offered options for both post and wall mounting.

Thanks to an extension to the length of the arm, you now have the possibility to mount the gate closer on the front side of your gate post if that is what your gate situation requires.





### LION ADAPTOR PLATE INTERIO HINGES

The LION came to the surface in 2019 as a compact and versatile retrofit option that closes over the full 180° range. With round posts being somewhat of a challenge, our R&D department have found a way to tackle it.

The 3018LION is a black anodized adaptor plate that embraces posts with a 60 mm diameter, for an easier mounting of the LION and adding to its versatility and installation flexibility.



The NOSEHINGE-I is the accessory to adapt your adjacent gate wings to aesthetically match the pedestrian gate with an INTERIO inside the gate frame. These extruded aluminium parts with plastic covers replicate the look and feel of the INTERIO hinge set and make the installation process easier, thanks to the exact same distance requirements.

#### Learn more about our GATE CLOSERS







### **PANICBAR SET**

Specific hardware for quick and safe exits in emergency situations are often prescribed in public building requirements. Our LPKQ surface mounted anti-panic gate lock was our first product to meet the EN179 norm. To widen the range, our newly developed PANICBAR set combes both features of a lock and a handle. This solution meets the EN 1125 norm.

The PANICBAR will be a complete set to add an emergency exit device to any gate in public building perimeters. This includes a stainless steel bar, a mechanical or electric keep and a key box or keyed lever handle for the outside of the gate. The set comes in several variations; two bar sizes, square or round post brackets and different options to unlock the gate on the outside. You can also choose a version with dogging feature, which can be toggled by a hexagonal key and is used to hold the latch in retracted position.

To meet various criteria in building prescriptions, the set complies to different norms and standards in both Europe as well as USA.

#### **EXIT DEVICE STANDARDS**

As mentioned above, there are similar rules and regulations when it comes to exit devices. EN179 and EN1125 are alike, but still different. Here's how:



#### EN 179 – Emergency Exit 🧭

EN179 covers exit devices for in emergency situations where people are familiar with the surroundings and have knowledge on how to operate the emergency exit. This condition means there is a reduced risk of a panic situation occurring. Therefore devices with handles or push pads are considered sufficient to give safe and effective escape.



#### EN 1125 – Panic Exit 🗹

EN1125 is a stricter standard, exclusively for panic situations. This norm emphasizes safe exits rather than security. This is specifically for environments where people present would not have prior knowledge of the safety routes or emergency exit devices. This means that there is higher potential for panic and the exit gates need to be equipped with adequate escape mechanisms, ie horizontal bars. These require a minimum of effort, such as a slight push, to open the gate.

### **STAYING SUSTAINABLE**

The future of our society on planet Earth is a burning topic. In 2015 all United Nations member states agreed on the 2030 Agenda for Sustainable Development. Incorporated in this agenda are 17 Sustainable Development Goals (SDGs), which are an urgent call for action in a global partnership to end poverty, improve health and education, reduce inequality and spur economic growth while tackling climate change and preserving our planet. At Locinox, we actively contribute to 9 of the 17 goals.

For our efforts to balance all aspects of sustainability, we were awarded the Voka Charter Sustainable Business 2022, which is internationally linked to the United Nations Sustainable



SDG 1. NO POVERTY



SDG 3. GOOD HEALTH AND WELL-BEING







Development Goals.

Our specific initiatives include more than 200 trees on our new Locinox 4.0 site, several annual charity projects, workshops and new protocol for waste sorting and the implementation of WMS (Warehouse Management System) and MES (Manufacturing Execution System) for workflow optimization.

THE SDGs TO WHICH WE ACTIVELY CONTRIBUTE

### **ALWAYS MOVING**

The Locinox RoadShow Van must be our most adventurous colleague. With a backpack full of hardware, gate closers and innovations, our mobile show room travelled through Europe for

workshops and installation trainings. Our 2023 schedule is still wide open, so you still have the opportunity to jump on board. Take a look at the tour dates on our website or get in touch with our customer service - we are definitively coming your way soon.



### **IN NEED OF TRAINING?**

Now that you are up to date with our continuously growing range of products, we would like to remind you that our service doesn't end at solely informing you. We are here to help you all the way.

In addition to our RoadShow Van on the move, we have more options to provide hands-on training. Our experts are more than happy to visit your company or welcome you to ours. Just get in touch and we will see you soon!



Do you want to see our UNIWING possibilities in real life, learn how to program VALENTINO, get a preview of VENUS or does your knowledge need refreshing?



Every innovation starts with an idea or suggestion. We keep an eye on the latest developments in the market and our representatives listen to the challenges you face every day. With innovation in their DNA, our engineers gather every piece of information and get to work with our core values at heart: product quality, easy installation, reliability and flexibility. This Journal is a summary of those ideas turned into new products, displaying the results of our engineer's creative and ambitious mindset. As an innovation minded company in a niche market, we will continue to invest in our R&D team, the beating heart of Locinox. That way, we aim to fulfill our promise by providing products and solutions for you.

# OUR R&D TEAM THEY MAKE ITHAPPEN

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