LOTOBox - Smart Key and Lock Management System Enabling SOP Compliance and Advanced Security

Designed and developed by Creone

AGENDA

1. Introduction to EDC-Technologies and Creone
2. Creone Key Products and LOTO SafetyBox
3. Working Together

EDC TECHNOLOGIES

Introduction to EDC-Technologies and Creone

Introduction to EDC-Technologies

Established in Malaysia in 2020 by the industry experts, we are the strategic partner to the Swedish innovation-driven technology company Creone, appointed to introduce their intelligent key and valuables management systems in Asia Pacific

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Introduction to Creone:

1	Founded in 1979 in Sweden with HQ in Tranås, Sweden
2	One of the largest key management system providers with key clients such as IKEA, Bosch, Hilton, Radisson and many others
3	Supplies key cabinets and valuables cabinets to over 50 countries, mainly in Europe, with focus to expand into Asia

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Creone Key Products

Creone key products:

KeyBox	KeyRack	ValueBox
KeyBox is a cutting-edge key management solution for secure and efficient access control. Its advanced technology and user-friendly interface streamline key management, enhancing security and operational efficiency	KeyRack system offers flexibility to organize keys using IntelliPin key pegs on lockable/non-lockable strips, either on the wall or in cabinets. It enables complete control with the ability to expand up to 66 strips, each providing 924 unique key positions	ValueBox offers separate compartments with customizable access control. Whether it's pharmacy, essential tools for law enforcement, or personal compartments for office staff, ValueBox provides the ultimate solution for safeguarding your important items.

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LOTOBox was developed in direct response to the pressing industry need for enhanced Lockout/Tagout (LOTO) compliance solutions, offering a comprehensive and effective tool to meet these critical safety requirements

LOTO - Lock Out, Tag Out is especially important when:

Working with hazardous energy or materials that need to be isolated or secured after work completion	Doing maintenance on or with dangerous/ hazardous equipment or vehicles which may pose danger if left switched on	Working with expensive equipment which access should be restricted	Working on a job that requires a strict SOP, e.g. sequence of tasks that require special access

Lockout–tagout is used across industries as a safe method of working on hazardous equipment and is mandated by law in some countries

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LOTOBox was developed to solve key safety challenges

1	Where is the key? Who has it? How to reach this person?
2	Has the key been accessed by authorised personnel?
3	Are all the work order steps completed and all access to equipment secured? Has isolation been done based on the SOP?
4	Are all keys and locks returned and equipment secured?
5	Who was the last person to access the key/ equipment and has the final lock-out steps being completed?

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LOTOBox enables individual key or lock access management and tracking based on work order and SOP

- Central key and lock management system utilising standard LOTO locks and equipment

- Maintenance Department keys can also be stored with controlled access, e.g. Store room,compressor room, boiler room, vehicle keys, etc..

- Each key or lock is individually secured and accessible only by authorised people. Key and lock access in managed in KeyWin6

- Each key movement is tracked real time and reports made available

- **Suitable for LOTO SOP**

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Improve your LOTO procedure with real time tracking:
Prior to work

Step 1: Work order or permit to work would be issued to carry out the work

NEW Step 2: LOTO Padlock/with keys are stored in a LOTO SafetyBox

- Each engineer or technician has his credentials and authorisations in Keywin6 (to control key or lock allocation)

- Each engineer has his keys and padlocks stored in the cabinet in his allocated slots

- The process for keys is identified in the cabinet based on the required sequence. e.g., 1=main power, 2=Water, 3 = fuel supply, 4 =gas

Step 3: System is locked off with required number of padlocks (power isolator, water, gas, other processes)

NEW Step 4: All keys are returned to key cabinet and locked into place after the equipment is locked off

- All keys are returned to the SafetyBox and locked into place after the processes are locked off

- Work procedure in maintenance system needs to be written into a procedure for the LOTO process

- No further work until approval from supervisor, ensuring all relevant keys are back in place

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Improve your LOTO procedure with real time tracking:
After work completion

Step 5: Work is completed on the equipment

Step 6: Safety checks are performed on equipment and if safe, all locks except main power can be removed

NEW Step 7: Deisolation carried out by removing keys from the SafetyBox and removing locks. All isolations except main power are removed by performing engineers Power key can only be removed by authorised 2nd person/supervisor

NEW Step 8: Authorised person or Supervisor carries out the final check on equipment

NEW Step 9: Deisolation of power is completed by the supervisor or authorised person

The LOTO SafetyBox and KeyWin 6 system manages who has access to what and when and provide a record of when they have accessed their keys

- The only person who is allowed to remove the power key from the rack

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LOTOBox ensures authorised access and compliance with the work order or LOTO SOP

Features	Traditional key management	LOTO SafetyBox
Key access	Engineers or technicians controlling the process and key access	Authorised access provided and management in a central key management system, providing stronger control
Key tracking	Keys and locks not traced or controlled	Keys and locks are traced based on each individual who accessed them. Person's contact details can be set in the system
Work order progress tracking	Work order managed separately without integration with key or lock access, safety procedures or sequence of tasks not tracked	Work order progress is tracked from key or lock collection to end of the task - key or lock return, enabling final acceptance approval from supervisor
Key activity and access tracking	Key or lock activity and access not tracked	All statistics on the key or lock movements and activities available real time in KeyWin6

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In summary, LOTOBox is:-

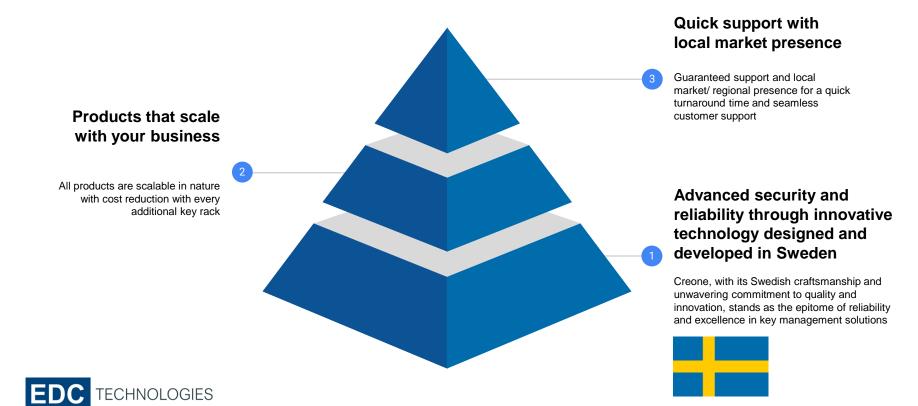| **Reliable**	**Scalable**	**Connected with IoT**	**Integratable through API**
With a legacy dating back to 1979, **Creone has consistently pioneered cutting-edge key management systems**, leveraging innovative Swedish technology for unparalleled success.	Key boxes and racks are scalable with your business, **from 28 keys/locks to Hundreds**. The space between the **racks can be adjusted** based on the lock sizes	KeyWin6 is the latest version of the market's **most comprehensive administrative tool for securely managing keys and locks which enables multi site key management.** Through the advanced IoT technology platform via Microsoft Azure, the administrators can manage key cabinets and keys with the highest possible precision, from anywhere in the world.	**Ability to add more features** such as face recognition for access control, or integrate it with other existing systems **through a full open API.**

Working Together for a
Safe work day

Why work with us?

Quick support with local market presence

3 Guaranteed support and local market/ regional presence for a quick turnaround time and seamless customer support

Products that scale with your business

2 All products are scalable in nature with cost reduction with every additional key rack

Advanced security and reliability through innovative technology designed and developed in Sweden

1 Creone, with its Swedish craftsmanship and unwavering commitment to quality and innovation, stands as the epitome of reliability and excellence in key management solutions

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Our commitment to you:

Unwavering customer and product support

Dealers form an integral part of our team. We are ever-present, responsive, and proactive, ensuring our success is inseparable from our partners.

Continuous product development and training

Committed to continuous product development based on client's needs and comprehensive dealer training, equipping our partners for market excellence

Growth partnership with marketing and sales support

We offer robust marketing and lead support with enticing incentives to empower our dealers in reaching their full sales potential. Every dealer receives essential assistance and necessary materials, ensuring support from lead inception to successful deal closure

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Products comparison

Product	KeyBox	KeyRack	LOTOBox	ValueBox
Target customer	● Car dealerships ● Transportation/ logistic companies ● Construction ● Hospitality ● Manufacturing ● Alcohol beverage companies (Carlsberg/Heineken)		● All industry's ● Manufacturing ● Oil &Gas ● Chemical plants ● Utility companies	● All industries, in particular: ● Pharmacies ● Hospitals ● Utility companies
Customer need	Individual key (or work tool) access management and tracking		Individual key or work tool access management and tracking **based on work order and SOP**	Smart safe to manage access to valuables or equipment/ tools
Key Benefits				
Individual key access management and tracking	✔	✔	✔	✔
Access with card reader, RFID, alcohol interlock	✔	✔	✔	✔
Integration via API	✔	✔	✔	✔
Key management based on work orders			✔	
Lock valuables	✔			✔

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