LOCKTEC

LOCKSAFE 5.2
Data sheet

Version 06.25

Imprint

Original data sheet

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Description

The Locksafe 5.2 is an extremely stable and long living electronically controlled locker system for unattended temporary storage of luggage, which was designed with the latest technology in mind. The Locksafe 5.1 locker system is often used on train stations, bus stations, ships and wherever the topic of luggage storage comes to bear.

The locker system can be used indoors as well as outdoors. The doors of the lockers are closed by default. The touchscreen of the user station is easy to use and provides, easy to understand, all necessary information. The software is the latest in technology and is intuitive to use. It is possible to delegate different tasks to various persons using the integrated "role and rights concept". The software provides many useful functions and can be integrated into ERP-systems, IT-systems and online shops via API quick and easy.

The user station contains a LS-PC and a touch screen and can be extended according to customer requirements.

With the Locksafe 5.2 locker system, your company can provide a secure possibility to store luggage independent of opening hours, thus more service for your customer.

The locker housing, lockers and user station are made of 1.5mm galvanized steel and can be supplied in almost any color and color combination. The color scheme can be ordered according to the PG1 color list at no extra charge. Since the metal surface of the locker doors and the frame of the locker system heat up due to direct sunlight during summer time, we recommend to avoid choosing dark colors or color combinations.

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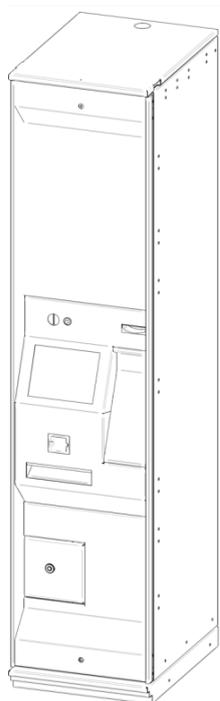
User station

The user station can be pulled out to ease maintenance and repair. A siren, alarm contacts and potential-free alarm contacts for integration into local alarm systems ensure a high security level. On top of that the user station is secured by two mortise dead locks.

STANDARD CONFIGURATION:	EXPANSION OPTIONS:
- 10 Zoll Touchscreen	- Cashless payment system
- LS-PC	- Potential-free alarm contacts
- 2D Scanner	- Siren
- Ticket printer	- RFID reader
	- Electric heating
	- Sunlight readable monitor
	- *UPS (uninterruptable power supply)

The equipment of the user station is configured according to your needs.

*To maintain the full functionality of the UPS, the accumulators of the UPS must be checked once a year and replaced every two years. This can be agreed in a preventive hardware maintenance contract.

CURRENCY, COINS AND BANKNOTES

Coin changer layout without banknote acceptor (EURO3):
- Tube 1 = 2,00€, Tube 2 = 0,10€, Tube 3 = 1,00€, Tube 4 = 0,50€, Tube 5 = 0,20€, Tube 6 = 0,50€,

Banknote acceptor*:
Acceptance: 5€+10€ banknotes
*The banknote acceptor does not change.

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Technical data

TECHNICAL DATA:

- Power connection 230V AC/50Hz +/- 10% (Please ask for other power connections)

- Fusing per user station 16 A-

- Work area– and ambient temperature -15°C to 35°C with heating and 0°C to 35°C without

- Power supply 2kWh/24h**

- Outside measurements of the separate user station: Hight = 2074mm, Width = 457mm, Depth = 657mm

- Weight: 160kg

- The electrical cabinet has protection class 1

- Outside the electrical cabinet, protection class 3 is applied in the operating station

*Depending on the intensity of use, consumption may vary.

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Locker columns

The locker columns are available in DIN right and left. The color scheme can be ordered according to the PG1 color list at no extra charge. The colors can be combined according to customer requirements. Please feel free to ask for other colors. The columns are made of 1,5mm steel. The doors of the lockers are available in 3D-prism-design or in flat design.

A pedestal eases the mounting and align of the columns especially if the underground is uneven. For ease of orientation, LEDs are located next to the lockers. An emergency opening provides access to the content of the lockers even if power failure occurs.

Locker system with flat-design

Locker system with 3D-prism-design

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Variations of locker columns

1-locker-column type Golf
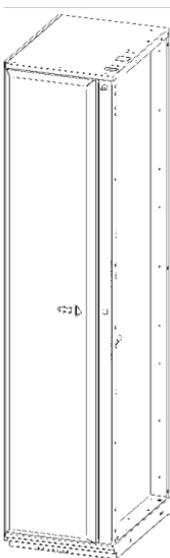
Variation (Depth of column mm)	Outside dimensions (Width x Hight x Depth in mm)	Locker size	Internal dimensions (Width x Hight x Depth in mm)	Capacity (Liters)	Weight (Kg)
657	457 x 2074 x 657	1 x Golf	351 x 1925 x 555	375	ca. 91

1-locker-column type Ski
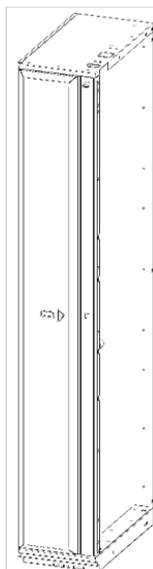
Variation (Depth of column mm)	Outside dimensions (Width x Hight x Depth in mm)	Locker size	Internal dimensions (Width x Hight x Depth in mm)	Capacity (Liters)	Weight (Kg)
657	317 x 2074 x 657	1 x Ski	212 x 1925 x 555	226	ca. 79

2-locker-column type XL

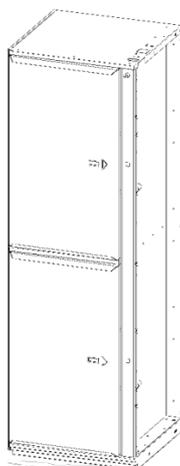| Variation (Depth of column mm)	Outside dimensions (Width x Hight x Depth in mm)	Locker size	Internal dimensions (Width x Hight x Depth in mm)	Capacity (Liters)	Weight (Kg)
657	631 x 2074 x 657	2 x XL	525 x 945 x 555	333	ca. 110
957	631 x 2074 x 957	2 x XL	525 x 945 x 855	424	ca. 120

2-locker-column type L

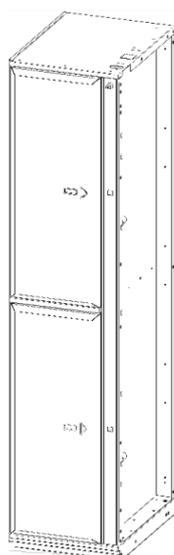| Variation (Depth of column mm)	Outside dimensions (Width x Hight x Depth in mm)	Locker size	Internal dimensions (Width x Hight x Depth in mm)	Capacity (Liters)	Weight (Kg)
657	457 x 2074 x 657	2 x L	351 x 945 x 555	184	ca. 94
957	457 x 2074 x 957	2 x L	351 x 945 x 855	283	ca. 102

3-locker-column type M

Variation (Depth of column mm)	Outside dimensions (Width x Hight x Depth in mm)	Locker size	Internal dimensions (Width x Hight x Depth in mm)	Capacity (Liters)	Weight (Kg)
657	457 x 2074 x 657	3 x M	351 x 620 x 555	120	ca. 98
957	457 x 2074 x 957	3 x M	351 x 620 x 855	186	ca. 108

3-locker-column type XM

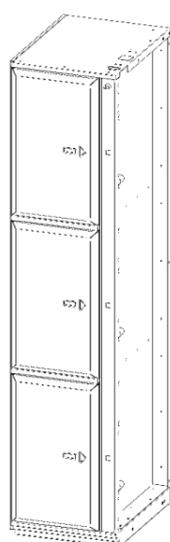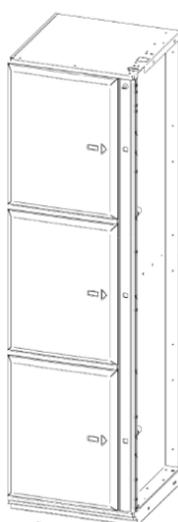| Variation (Depth of column mm)	Outside dimensions (Width x Hight x Depth in mm)	Locker size	Internal dimensions (Width x Hight x Depth in mm)	Capacity (Liters)	Weight (Kg)
657	631 x 2074 x 657	3 x XM	525 x 620 x 555	180	ca. 110
957	631 x 2074 x 957	3 x XM	525 x 620 x 855	278	ca. 120

3-locker-column type S/L

Variation (Depth of column mm)	Outside dimensions (Width x Hight x Depth in mm)	Locker size	Internal dimensions (Width x Hight x Depth in mm)	Capacity (Liters)	Weight (Kg)
657	457 x 2074 x 657	2 x S	351 x 457 x 555	89	ca. 98
		1 x L	351 x 945 x 555	184	
957	457 x 2074 x 957	2 x S	351 x 457 x 855	283	ca. 108
		1 x L	351 x 945 x 855	137	

3-locker-column type M/XL

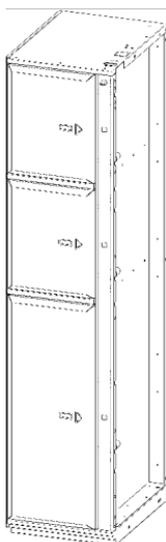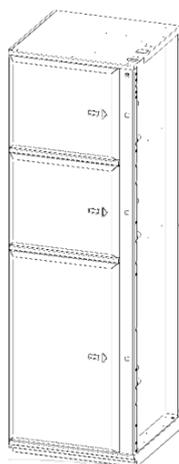| Variation (Depth of column mm)	Outside dimensions (Width x Hight x Depth in mm)	Locker size	Internal dimensions (Width x Hight x Depth in mm)	Capacity (Liters)	Weight (Kg)
657	631 x 2074 x 657	2 x M2	525 x 457 x 555	133	ca. 110
		1 x XL	525 x 945 x 555	275	
957	631 x 2074 x 957	2 x M2	525 x 457 x 855	205	ca. 130
		1 x XL	525 x 945 x 855	424	

4-locker-column type S

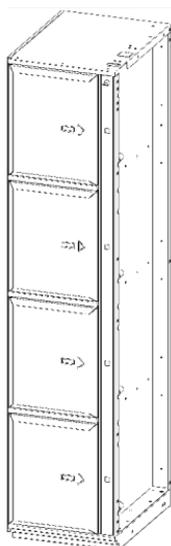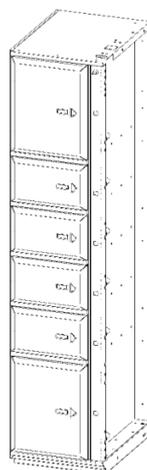| Variation (Depth of column mm)	Outside dimensions (Width x Hight x Depth in mm)	Locker size	Internal dimensions (Width x Hight x Depth in mm)	Capacity (Liters)	Weight (Kg)
657	457 x 2074 x 657	4 x S	351 x 457 x 555	89	ca. 103
957	457 x 2074 x 957	4 x S	351 x 457 x 855	137	ca. 114

6-locker-column type XS/S

Variation (Depth of column mm)	Outside dimensions (Width x Hight x Depth in mm)	Locker size	Internal dimensions (Width x Hight x Depth in mm)	Capacity (Liters)	Weight (Kg)
657	457 x 2074 x 657	4 x XS	351 x 211 x 555	41	ca. 112
		2 x S	351 x 457 x 555	89	

Expansion options of locker columns

The locker types can be equipped with the following expansion options, depending on the size of the locker.

- Power supply to charge electrical devices such as cell phones, laptops...
- Clothes rail with integrated clothes hooks for hanging clothes
- Clothes hooks for hanging clothes
- Anti-graffiti coating
- Special colors
- Locker doors in 3D-prism-design or flat-design
- Locker doors in flat-design made of stainless steel
- Roof construction
- Covering

Other options on request.

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Touchscreen technical data

Monitor: Standard

- ➤ 10.1'' Touch Display

- ➤ Resolution 1280 x 800 x 60Hz

- ➤ Response time 25ms

- ➤ Colors 16.7M

- ➤ Temperature range from 0 to +40°C

- ➤ Break tested Touchscreen UL-60950 and IK-07 tested

To ensure proper functionality and customer-friendly usability (heating of the touch screen surface), direct sunlight on the touch screen should be avoided.

Monitor: (Optional)*

- ➤ 10.1'' dust-proof Touch Display

- ➤ Resolution 1280 x 800

- ➤ Contrast 800 : 1

- ➤ Colors 16.7M

- ➤ Temperature range from -20 to + 60°C

- ➤ Brightness 1200 cd/m2

- ➤ Break tested Touchscreen UL-60950 and IK-07 tested

*At choice of LockTec depending on availability.

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Special features

Roof construction: It is recommended to use a roofing when the locker system is installed outdoors to avoid rain, sun exposure and other meteorological effects. We offer different roofs.

Locking concept: When the locker doors of a Locksafe 5.2 locker system are closed two massive, electronically controlled steel bolts lock the door automatically. That way the luggage of your customers is well protected against unauthorized access.

Heating: For some temperature zones an electrical heating is recommended to compensate temperature fluctuations as well as increased humidity in order to protect the electronic components of the user station.

Acceptor of paper money: The acceptor of paper money allows payment with paper money in addition to coins and cashless payment systems.

Cashless payment: We provide different cashless payment terminals for use with a big selection of established credit cards.

Networking: The Locksafe 5.2 locker system can easily be connected to any network and can be controlled and monitored via the "backend". Changes of the price strategy, the ticket design and many other useful features can be used without even being present at the locker system.

CMS: The LS-control and management system gives you full control over several locker systems and makes it easy to observe, control and manage them from one central pc.

Installation location

There are two different types of outdoor installation.

1. Indoor installation:
   Rooms in which the locker system is protected from weather influences, salt, direct sunlight and other external influences as well as extreme temperature fluctuations. Room temperature approximately 21°C.

2. Protected outdoor installation:
   Protected outdoor locations ensure that the locker system is protected from splash water, rain, snow, hail, driving rain, salt, direct sunlight on the display, etc. For this we recommend a roofing.

ADDITIONAL MEASURES FOR OUTDOOR INSTALLATION:

Different criteria are to be considered for the outdoor installation of the locker system:
   - Avoid direct sunlight
   - Roofing, wind and rain protection are recommended (we offer complete solutions)
   - It should be avoided that goods and customers get wet
   - It must be avoided that water gets into the lockers
   - Regular cleaning of the locker system is necessary to avoid moss formation and contamination
   - Avoid extreme weather and temperature conditions, as extreme -/+ temperatures over longer periods of time will unavoidably have a negative effect on the inner temperature of the locker
   - Dark colors and color-combinations should be avoided

Please discuss your climatic conditions with us in order to find the best solution for you.

Attention: Interference due to EMC level violations or currents (bursts) in the power supply at the installation location may have negative effects on the electronic of locker systems. Such interference can be caused by e.g. non-EMC-compliant elevators, tanning salons, electric distributors, air conditioning and telecommunication technology located in close proximity of the installation location. These interferences can be located, e.g. one floor above or below of the installation location or can be separated by a wall. Additional technical measures are necessary to solve these issues, which would result in additional costs. Please ensure that the installation location is free of such interferences.

Our locker systems require an internet connection. We don't recommend a WLAN solution, for they are usually less reliable and steady and therefore cannot ensure the proper functionality of the locker systems.

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Material overview

1. Columns:

➢ Rear wall made of 1,5mm DC 01, powder coated

➢ Housing made of 1,5mm DC 01, galvanized, powder coated

➢ Column bottom and top made of stainless steel 1.4301, raw

➢ Doors made of 1,5mm DC 01, powder coated

➢ Plinth made of DD 11 and RP-Profile steel tube

➢ Square tube made of ST 40mm x 40mm x 2mm

➢ Pitched roof made of 1,5mm ALMg3

➢ Closing bar made of 3mm aluminum profile

2. User station:

➢ Rear wall made of 1,5mm DC 01, powder coated

➢ Housing made of 1,5mm DC 01, powder coated

➢ Front-upper section made of 2,0mm DD 11, powder coated

➢ Front-middle section made of 1,5mm DC 01

➢ Front-lower section made of 2,0mm DD 11, powder coated

➢ Bottom made of 1,5mm stainless steel 1.4301, raw

➢ Top cover made of 1,5mm stainless steel 1.4301, raw

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Material information

General:

    1. Name of material:
- The addition "raw" in the name of materials indicates that the surface of the material has not been treated. The material is in raw, untreated state. The material comply with the quality delivered by the supplier.

    2. Color spectrum:
- The standard colors range from classic RAL 5001 to RAL 9001. Of course other color variations and coatings are available at additional costs.

    3. Material

    a. Aluminum 3.3535

- EN 573-3

    b. Stainless steel 1.4301

- DIN EN 10088-3

- Corrosion resistance class 2 (DIN EN 1993-1-4 and general building approval Z-30.3-6)

Typical use cases:
Standard materials for all known applications for accessible constructions and components such as balustrades, railing constructions, covers, fasteners in rural and urban areas with negligible SO2 and chlorides contamination. Components which are not exposed to rain should be cleaned at least once a year to maintain an optically appealing appearance.

    c. Stainless steel 1.4404

- DIN EN 10088-3

- Corrosion resistance class 3 (DIN EN 1993-1-4 and general building approval Z-30.3-6)

Typical use cases:
Standard materials for constructions with moderate exposure to chlorides e.g. de-icing Salts or maritime environment in moderate climate and/or moderate exposure to SO2 also for constructions and components that are difficult to reach and clean and have a life expectancy of more than 50 years. In case high expectations are placed on optics a suitable surface finish needs to be put into consideration as well.

    d. Stainless steel 1.4462

➢ DIN EN 10088-3

➢ Corrosion resistance class 4 (DIN EN 1993-1-4 and general building approval Z-30.3-6)

Typical use cases:
Used in case of extreme exposure to chlorides, which may create highly acidic surface film together with e.g. SO2 or chlorine gas. Higher temperatures may add to that and cause an accumulation of the mentioned substances, especially if there is insufficient irrigation or cleaning. This applies to all use cases where stress corrosion on load-carrying components may occur (swimming pool atmosphere, road tunnels).

e. Powder coating

Our powder coating partners are all certified in accordance with the quality mark of the Quality Management Community (QIB) or ISO 9001. Therefore, we can offer various powder coatings, life expectancies and corrosivity categories (derived from DIN 55634/ ISO 12944).

NOTE!   The life expectancy does not correspond to the warranty period!

➢ Type of surface characteristics

The locker systems are based on the standard level and may show various visual features. The surface characteristics are listed in the QIB-leaflet 3-1 "Visual assessment of coated, decorative surfaces". The most significant points are shown below.

➢ Crater, Bubbles and Inclusions

max. 30 pcs. $\leq$ 1,0 mm^2 per m^2; max. 8 pcs. $\leq$ 1,0 mm^2 per 100 cm^2
max. 5 pcs. $\leq$ 1,5 mm^2 per m^2; max. 3 pcs. $\leq$ 1,5 mm^2 per 100 cm^2

➢ Paint tears and Accumulations

Approved and partially max. triple layer thickness allowed.

➢ Gloss differences

Approved if within the following tolerances.

For metrological evaluations of industrial coatings by reflection measurement according to DIN EN ISO 2813 (60° measurement geometry) the following tolerance limits usually apply for:

➢ Glossy surfaces: 71 to 100 E (± 10 E)
➢ Silk-glossy surfaces: 31 to 70 E (± 7 E)
➢ Matt surfaces: 0 to 30 E (± 5 E)

➢ Color deviation

Approved, if not to noticeable. Reference lighting is the diffuse daylight (view distance in accordance with explanations must be respected).

A metrological evaluation is based on DIN 6175 Table 1 with the tolerance limit of a maximum of 1.5 times the permitted color deviation.

The numerical value of the metamerism index (according to DIN 6172) of subsequent deliveries must not exceed the numerical value of the color distance ΔE_{AB}.

For different delivery batches of an order the color shades that may occur should not exceed 2 times the value of the tolerances specified in DIN 6175 Table 1. If components of several paint batches are joined together, the above mentioned 2-fold tolerance may be doubled if joints, mitres, corrugations, ornamental strips, cavities or the like are present.

Attention: Color deviations and discolorations are no base for warranty claims!

➢ Sanding marks

Sanding marks of max. roughness of R_{MAX} < 9 µm (equals abrasive paper with grain size 180 used with an extender orbital sander) are normally covered by conventional powder coating systems.
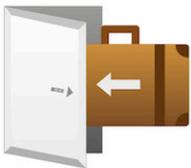
Attention!   In the material processing and welding methods we use, we deliberately work with visible weld seams. These do not constitute a defect.

Functionality

The software as well as the mechanic of the Locksafe 5.1 locker system was designed with easy usability and intelligibility in mind.

The two most important functions of the locker system from the customer's point of view, the storage and the collection of luggage have been designed to be self-explanatory.

Renting a locker:

Put the suitcase in a free locker.	Please close the locker and pay.	Take the ticket and have a nice day.

Picking up luggage:

Scan the ticket.	Take your luggage.

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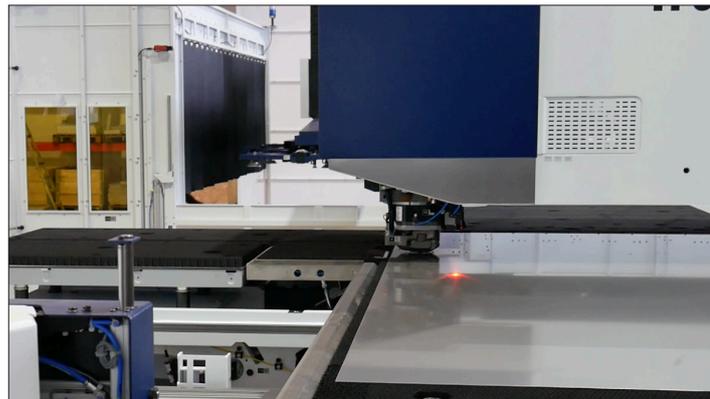## Things to know

Experience: LockTec develops and produces locker systems since 1982 on the highest possible level. The fifth generation of our approved locker systems is in use worldwide.

Our locker systems are state of the art and leading when it comes to user comfort because of consistent further development.
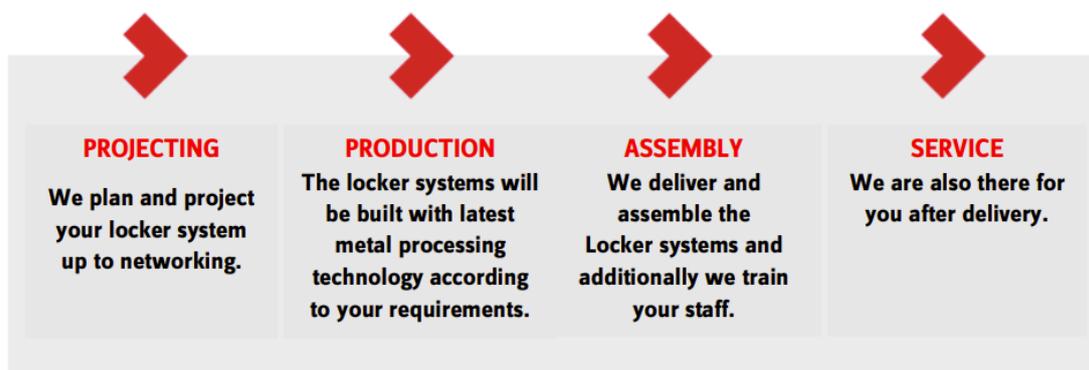
Our locker systems can be found at train stations and airports in Germany, Austria, Switzerland, France, Denmark, Italy, Portugal, the Netherlands...

Quality: LockTec offers quality "Made in Germany". We provide the best possible quality for our customers via latest metal processing technology, construction, software development and final assembly from a single source.

From a single source:

PROJECTING	PRODUCTION	ASSEMBLY	SERVICE
We plan and project your locker system up to networking.	The locker systems will be built with latest metal processing technology according to your requirements.	We deliver and assemble the Locker systems and additionally we train your staff.	We are also there for you after delivery.

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