



PALLET BOX

Data sheet

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1. Pallet box - Description

The Pallet box was specially designed for the handover of goods stored on pallets.

State-of-the-art access technology and highest manufacturing quality together with the combination of lockers and Pallet boxes in different variations make it a very flexible and versatile solution. Fields of application are construction markets, companies, supermarkets, shopping centers and more.

The modular system is easily expandable. The control unit is integrated and serves as central operating terminal for retrieving information via the touch screen monitor or payments. It comes with a self-developed industrial PC (LS-PC), which ensures long-term availability. The control unit can be extended on request with e.g. RFID-card reader, payment system, printer and more.

The Pallet box can be installed both indoors and outdoors. The roller shutters have been designed specially for the Pallet box and are made of 2 mm double-walled aluminium profile, which provides extrem robustness with the highest quality.

With the Pallet box locker system, your company can offer services to your customers around the clock, regardless of opening hours and without additional staff.

The housing of the locker modules, roller shutters of the pallet boxes and the locker doors can be supplied in various color combinations. (One RAL - color 5001-9001 without additional costs)



Pallet box with surveillance cameras

2. Pallet box - control unit



Control unit

Installation	Integrated into the locker area of the pallet box. Flexibly expendable.
Operating principle	The touch screen monitor allows you to operate the menu, enter pickup and delivery codes, and query information.
Optional features	Payment systems Printer for tickets and receipts RFID-card reader 2D scanner for QR-codes or barcodes

Touchscreen Monitor (Standard)*

Display	10.1" Touch Display
Resolution	1280 x 800 x 60Hz
Reaktion time	25ms
Colors	16.7M
Operating temperature	0 to +40°C
Vandalism protected	Break tested Touch screen UL-60950 and IK-07 audited

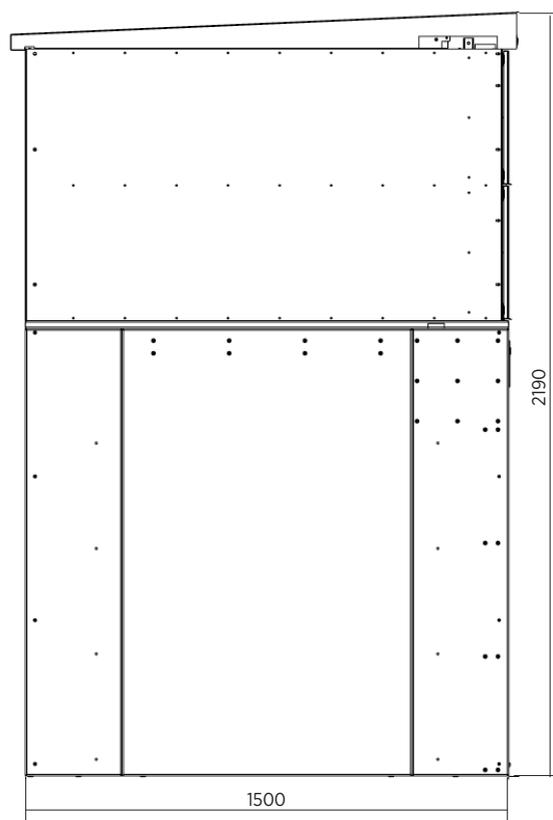
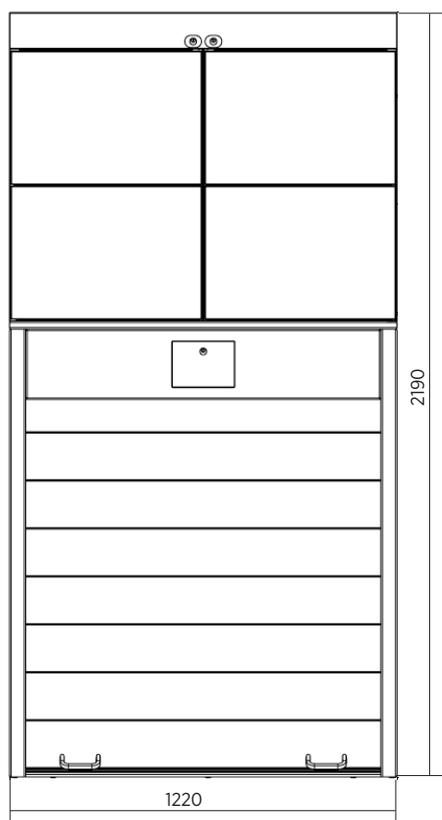
*At LockTec's option depending on availability.

Touchscreen Monitor (Optional)*

Display	10.1" Dust-proof Touch Display
Resolution	1280 x 800
Contrast	800 : 1
Colors	16.7M
Operating temperature	-20 bis +60°C
Vandalism protected	Break tested Touch screen UL-60950 and IK-07 audited

*At LockTec's option depending on availability.

3. Pallet box - Dimensions



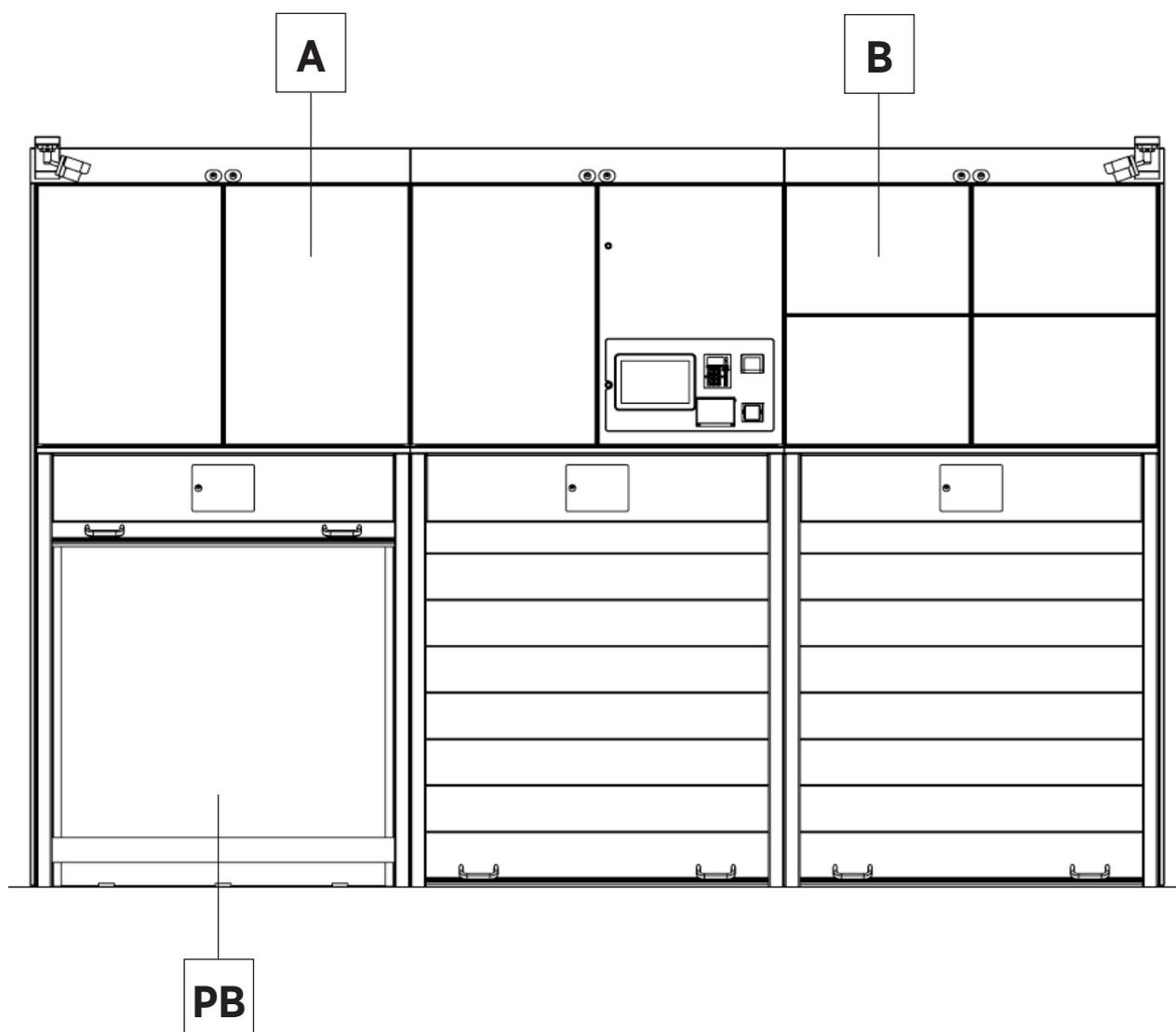
Outer dimensions approximately

Width 1220 mm (1200 mm module with technical unit)

Hight 2190 mm (2250 mm with LTE)

Depth 1500 mm (1570 mm roof overhang included)

4. Pallet box - Locker sizes



Locker sizes (inner dimensions)

	Width	Hight	Depth
A	530 mm	618 mm	1475 mm
B	530 mm	295 mm	1475 mm
PB	1085 mm	1100 mm	1400mm

5. Pallet box - Material overview

Material Pallet box

Bearing construction:	Min. 1.5 mm stainless steel 1.4301
Sidewall:	Min. 1.5 mm stainless steel 1.4301 powder coated
Rear wall:	Min. 1.0 mm aluminium sheet or stainless steel 1.4301
Inner wall:	Min. 1.5 mm stainless steel 1.4301 raw
Locker doors:	Min. 1.5 mm stainless steel 1.4301 powder coated
Locker base:	Stainless steel 1.4301 raw
Roller shutter:	2 mm double-walled aluminium profile powder coated

6. Pallet box - Special features

Optional special features

- Ram protection
- Sunlight readable monitor
- Anti graffiti coating
- RAL-colors (in addition to the standard)
- Heavy duty drawer
- Age verification
- CCTV cameras
- LTE-Router with antenna (SIM-card optionally provided by LockTec)

7. Pallet box - Installation location



There are three 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, salt, direct sunlight on the display, etc. A roofing is recommended.

3. Unprotected outdoor installation:

Here the locker system is installed in an outdoor location without any protection from rain, snow, hail, driving rain, salt as well as other external influences such as splash water, salt, direct sunlight and so on. Special measures are required for the production processes of the locker system. Suitable materials and more expensive components must be used. When it comes to corrosion protection the installation location must be divided into different classes. These classes determine the scope of the corrosion protection measures. For example, a locker system manufactured for a coastal installation has a considerable higher degree of corrosion protection than a locker system manufactured for an inland area installation because of the salt content of the air.

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 recommended
- Avoid extreme weather and temperature conditions
- 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.

8. Pallet box - Material manufacturing process



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. $\leq 1,0 \text{ mm}^2$ per m^2 ; max. 8 pcs. $\leq 1,0 \text{ mm}^2$ per 100 cm^2

max. 5 pcs. $\leq 1,5 \text{ mm}^2$ per m^2 ; max. 3 pcs. $\leq 1,5 \text{ mm}^2$ 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 $R_{\text{max}} < 9 \text{ }\mu\text{m}$ (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.

9. Pallet box - Material description



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.

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.

Material

a. Aluminium 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).

10. Pallet box - Interesting facts



Experience:

LockTec is pioneer for parcel locker systems with and without multicarrier concepts for first and second delivery since 2000. The fifth generation of our approved locker systems is in use worldwide.

Our locker systems are state of the art and are subject to a continuous development process for best possible user comfort.

LockTec GmbH is the founder of the concept of using locker systems for the transfer of goods.

Patent lodged in Germany 1999 for the technology of delivering parcels to an automated locker system. International patent was confirmed on December 19th, 2007.

Luggage locker system Locksafe 5.1



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