



LOKISTIX
Packaging Pioneers

POWERED BY

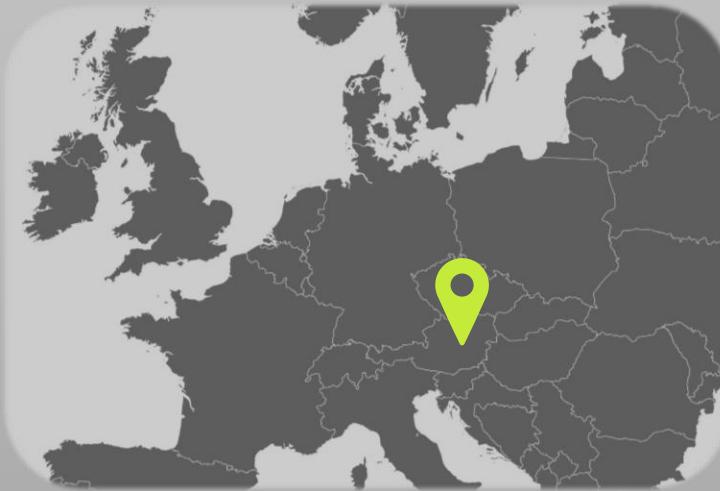
LOKISTIX



Founded and owned by
David Reiter and
Manuel Reiter



Located in
Graz, Austria



Focusing on
innovative packaging solutions
for lithium-ion batteries



“Our vision is to create a world, where the transportation and storage of batteries is safe, smart and efficient, by providing an innovative packaging solution.”

LOKISTIX

Modular by Design | Unified by Purpose



Application



For all modes of transportation & for storage:
Truck, train, plane, vessel and warehouse.

Use - Cases



For batteries of all types: Li-Ion, Li-Metal, Na-Ion.
For all states: UN-certified, defective,
recycling/disposal, prototypes, critically defective.

Digital Assets



Alerting, monitoring and
digital documentation.

Portfolio



Product



LOKI-Pack

Configurable and modular for
battery transport and storage of
all lifecycle stages*

Project



LOKI-TES

Tailored Engineering Solutions

Tailor made for your mass production
requirements for maximum efficiency
and minimum cost**

Digital
Enhancement

LOKI-Digital Assets

Optional enhancement for LOKI-Pack and LOKI-TES***



*) Configuration of size, inlay design, closure, and labeling.

**) Individual quotation based on your batteries and your automation interfaces.

***) Currently in early phase of market introduction.

Benefits



Cost

Short term:

- ✓ Reduced costs per kWh due to tailored design (= maximizing storage capacity).
- ✓ Covers both, transport & storage needs.
- ✓ Enables reduced cycle time and reduced automation complexity (loading/unloading/cleaning).

Mid term:

- ✓ Reduced insurance premium due to higher safety and thus lower risk of fire.



Compliance

Short term:

- ✓ Compliant with current ADR, IMDG, RID, and IATA regulations.
- ✓ Applies to all chemistries and all states of batteries (e.g. new, damaged).
- ✓ Usable as dangerous goods warehouse safety mechanism (alerting).

Mid term:

- ✓ Ready for regulatory updates (e.g. SoC docu from Jan 2026) & EU battery pass.



Quality

Short term:

- ✓ Increased cleanliness during transport & storage thanks to ingress protection.
- ✓ Reduced emergency response time thanks to early warning system.
- ✓ Increased lifetime thanks to robust design.

Mid term:

- ✓ Increased first-time OK rate by pre-selecting damaged packs.

Management & Partners



CEO
David Reiter

DI Mechanical Engineering
DI Industrial Management
Development engineering
Data science
Sales & Business development



COO
Manuel Reiter

MSc Energy Systems Engineering
Mechanical Engineer
Development engineering
Project & product management
Industrialization



Take your Battery Logistics to the next Level



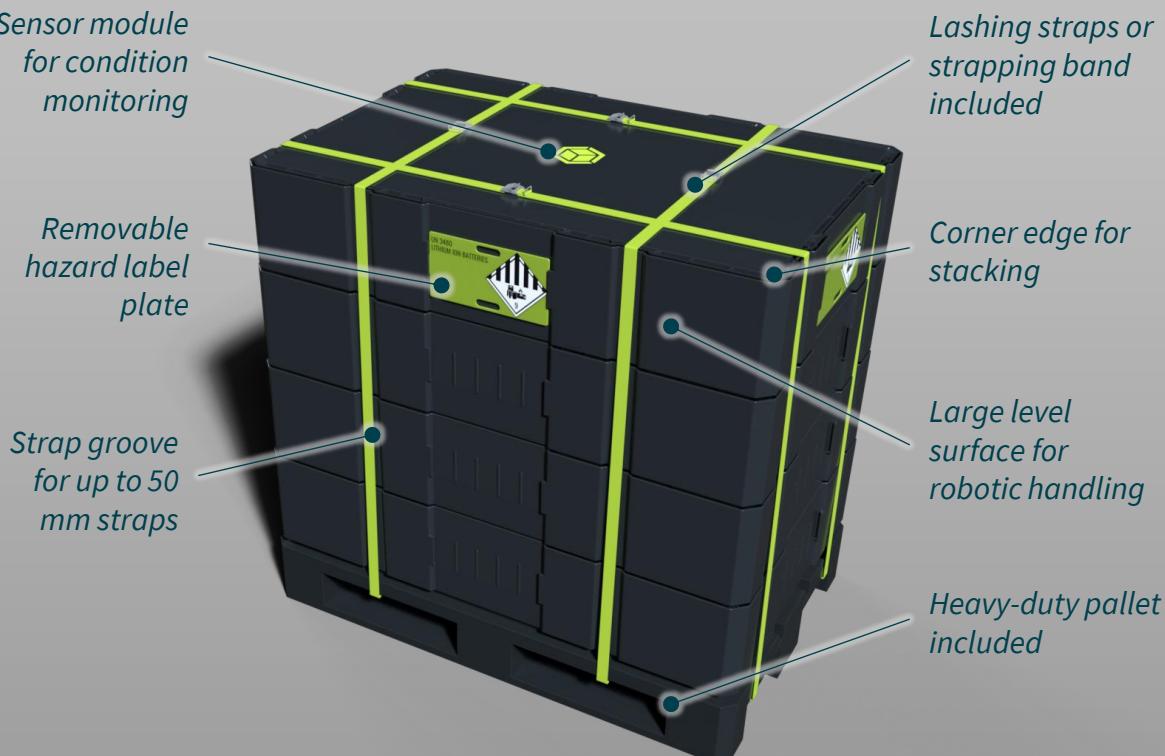
LOKISTIX Solutions

LOKI-TES (Tailored Engineering Solutions)

LOKI-TES

Specifications

LOKI-TES stands for Tailored Engineering Solutions. Customers with high volumes and growing business require specific packaging systems. In close collaboration we develop your highly individualized packaging that is cost effective and optimizes automation, cycle time, cleanliness, space efficiency and more.



Technical Data

Outer dimensions	1200 x 800 x 1200* mm
Intended use	Cells (prismatic, cylindrical, pouch) & modules
Levels	1 - 12**
Weight net	~ 40 - 150 kg
Max. payload	~100 - 800 kg***
Weight gross	~140 - 950 kg
Material	HDPE blend
Minimum lifetime	5 years

*) Height depends on number of levels and goes up to ~1.2 m

**) Number of levels depends on battery geometry.

***) Final max. payload defined after UN/4H2/Y type testing

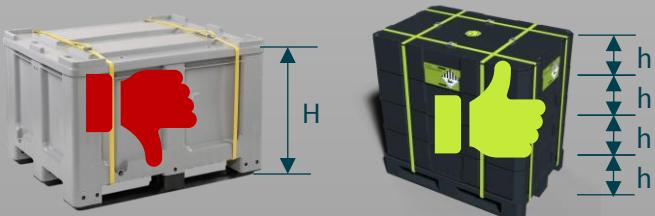
Robot access

Challenge

Speed of robot movement is compromised by potential collisions with packaging, especially if it has a high depth (e.g. 1m+ for common large packaging).

Solution & Benefit

Multi-level tray design with gripper grooves provides same situation for robot on every level and thus enables **highest movement speeds and lower cycle times**. Additional benefit: industrial cleaning (dry or wet) of the trays is much easier this way.



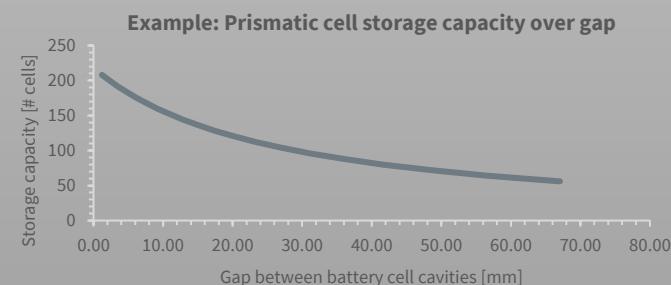
Storage capacity

Challenge

Number of batteries (cells or modules of given geometry) per packaging unit depends on the gap between batteries, required to enable automatic packing and unpacking with mechanic, magnetic, or pneumatic gripper.

Solution & Benefit

Experience based, minimized gaps between batteries maximizes storage capacity and minimizes cost per transported battery.



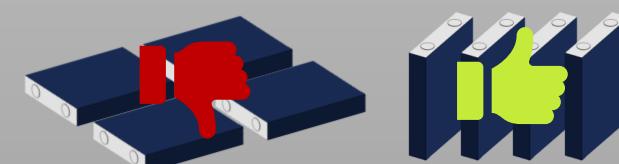
Battery orientation

Challenge

Vertical or horizontal battery alignment plays not only a role for storage capacity and required levels of trays, but also for complexity of the robot.

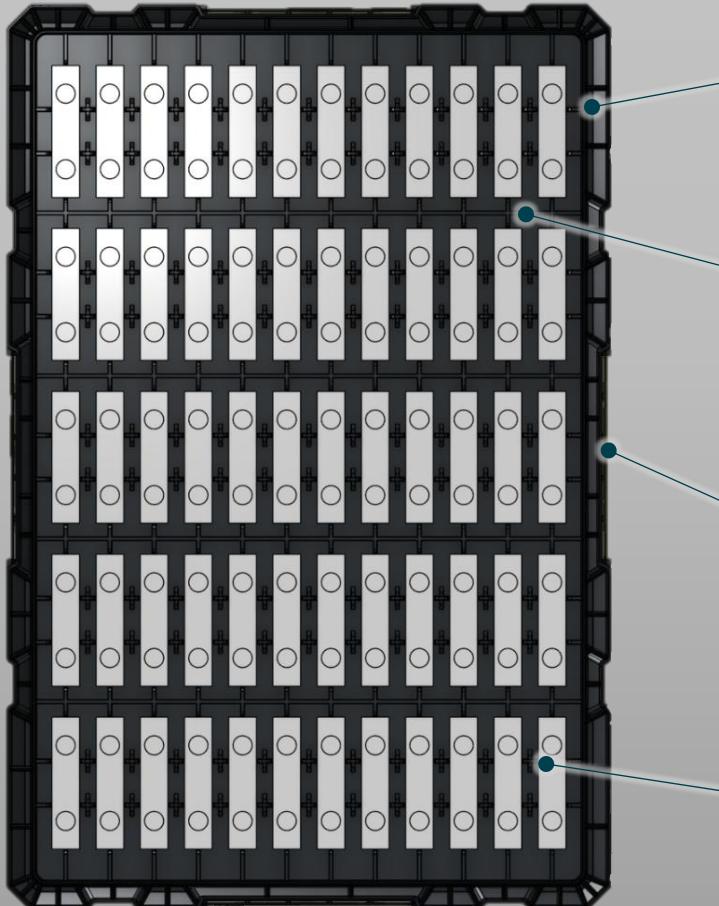
Solution & Benefit

Alignment of the batteries by default vertical to avoid movement of additional axis and enable usage of cheaper SCARA robot (x, y, z + z rotation).





Case-Study Prismatic Cells UN 38.3 Certified (UN 3480/P 903)



Twin-wall design for maximum robustness and cleanliness.

Gap between cells can be customized based on gripper specifications.

Slot for hazard-label-plate on each side and on every level for maximum flexibility and compliance.

No additional inlays. Battery slot made from HDPE blend by default. Extra isolation material (EPP) can be applied if required.

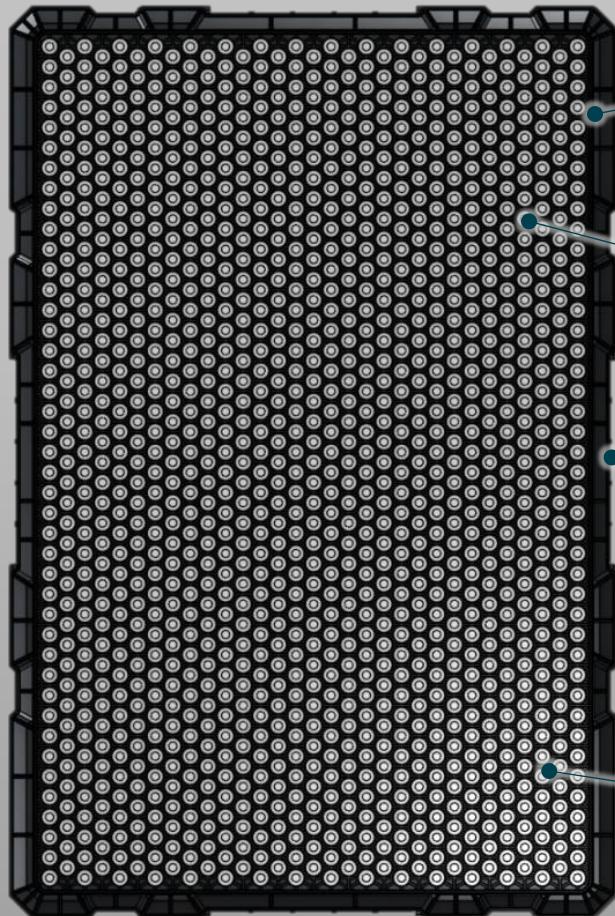


Technical Data

Battery	Prismatic: 220 x 175 x 36 mm
Outer dimensions	1.200 x 800 x 1.150 mm
Levels	4
Storage capacity per level / total	60 cells / 240 cells
Weight net / payload / gross	100 kg / 720 kg / 820 kg

LOKI-TES

Case-Study **Cylindrical** Cells UN 38.3 Certified (UN 3480/P 903)



Twin-wall design for maximum robustness and cleanliness.

Gap between cells can be customized based on gripper specifications.

Slot for hazard-label-plate on each side and on every level for maximum flexibility and compliance.

No additional inlays. Battery slot made from HDPE blend by default. Extra isolation material (EPP) can be applied if required.



Technical Data

Battery	Cylindrical: ø 21 x 70 mm
Outer dimensions	1.200 x 800 x 1.002 mm
Levels	10
Storage capacity per level / total	1.287 cells / 12.870 cells
Weight net / payload / gross	140 kg / 772 kg / 912 kg

LOKISTIX Solutions

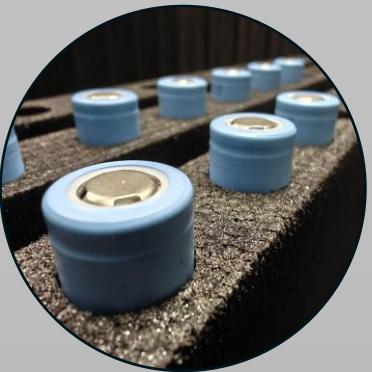
LOKI-Pack



Customizable properties		Options			
Use Case	Green batteries P 903 (UN 38.3 certified)	Yellow batteries P 908 (defective) P 909 (waste/recycling) P 910 (prototypes)	Red batteries P 911 (critically defective)		
Format	Euro-Palette (1200 x 800 mm)		Industry Palette (1200 x 1000 mm)		
Size	S (1/4 of palette)	M (1/2 of palette)	L (palette)		
Inner packaging		Individual: Tailored for battery geometry. (for green batteries)	Standard: Modular plug-in system with straps. (for green batteries)	Universal: Modular plug-in system with bags, cushions, and straps. (for yellow batteries)	Safety: System with insulation, bags and cushions. (for red batteries)
Closing mechanism		Latches		Sliders	Hinges in combination with any of the others
Accessibility		Crane and forklift (with feet)		Crane only (without feet)	
Logo	Lokistix logo		Your company logo	Without logo	



Euro-Palette	S	M	L
Outer dimensions L x W x H	600 x 400 x 340 mm	800 x 600 x 340 mm	1200 x 800 x 340 mm
Inner dimensions			
L x W x H (Individual, standard and universal inlay)	440 x 240 x 210 mm	640 x 440 x 210 mm	1040 x 640 x 210 mm
Inner dimensions			
L x W x H (Safety inlay)	460 x 260 x 225 mm	660 x 460 x 225 mm	1060 x 660 x 225 mm
Weight net (Individual, standard and universal inlay)	15 – 17 kg	20 – 24 kg	32 – 40 kg
Weight net (Safety inlay)	25 – 27 kg	35 – 39 kg	55 - 63 kg
Max. payload	45 kg	70 kg	100 kg
Max. battery capacity (Safety inlay)	Tbd	Tbd	tbd



LOKI-PACK Individual

Tailored design for any customer specific battery geometry.

Green batteries*



LOKI-PACK Standard

Flexible plug-in system with straps for any battery form factor.

Green batteries*



LOKI-PACK Universal

LOKI-Pack standard with bags and cushions for any battery form factor.

Yellow batteries*



LOKI-PACK Safety

Maximum insulation cage with bags and cushions to beat thermal events.

Red batteries*

*) **Green:** UN 38.3 certified batteries | **Yellow:** Prototypes, damaged batteries, waste/recycling | **Red:** Critically defective batteries



Bag

Wrap your batteries completely with our **non-flammable** safety bag. Fits multiple battery sizes due to **flex-roll closure**.



Cushion

Use safety cushions as **passive coolant** or **liquid electrolyte absorber**. Yes, they also absorb shocks.



Label-Plate

Use removable plates for **fully compliant labeling** of your shipment. No matter if via truck, train, vessel, or plain – it is **enough space**.



Closure

Go with optimized solutions for **manual or automatic** operation. Latches, sliders, locks, hinges and straps can be combined.

LOKISTIX Solutions

LOKI-Digital Assets

LOKI-Digital Assets



Get an immediate acoustic alert and notification in case of thermal events.

“Because safety matters.”



Always know where and how your shipment is and has been.

“Revolutionize your quality assurance.”



Enable digital shipping documents, accessible via QR code on the box.

“Prepare yourself for the future.”



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