

ORBIS IonPak®

Foldable Large Containers for Lithium-Ion Batteries

- Certified solutions according RID/ADR
- Customer-specific dunnage development
- Safe transportation and storage
- Durability and long service life
- Made primarily from recycled material
- 100% recyclable



UN4H2 / UN50H

 INNOVATIVE

 DURABLE

 SUSTAINABLE

20
25

ORBIS Europe IonPak®

Customised Packaging Solutions
based on Standard Dimensions

1200 x 800 / 1200 x 1000 / 1600 x 1200 ...



The ORBIS IonPak® is a foldable plastic container for lithium-ion batteries, that are classified as class 9 dangerous goods. The transportation and packaging of these goods is subject to strict regulations. Due to safety hazards, lithium-ion batteries require robust and safe packaging solutions.



OUR SOLUTION: The ORBIS IonPak®

- Suitable for prototypes, battery cells, modules, small battery packs, as well as end-of-life batteries (e.g. P903, P908, P909, P910)
- Converting conventional steel/cardboard packaging to a collapsible, reusable plastic container

IMPLEMENTATION PROCESS

- 1 - First contact, supply chain analysis & consulting
- 2 - Customised protective dunnage development
- 3 - Compability with fully and semi-automated processes
- 4 - Design freeze and pre-series production
- 5 - Comprehensive testing of the entire packaging
- 6 - UN-certification for solid dangerous goods
- 7 - Final approval and serial production

Rely on ORBIS for the entire process...

...from development to certification of your packaging solution.

Qualified Consulting
By Certified
Dangerous Goods Safety Advisors



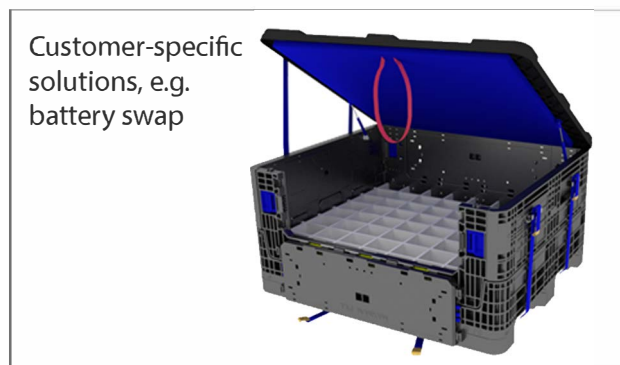
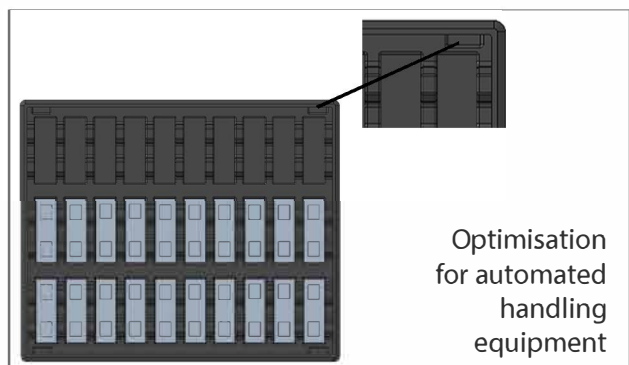
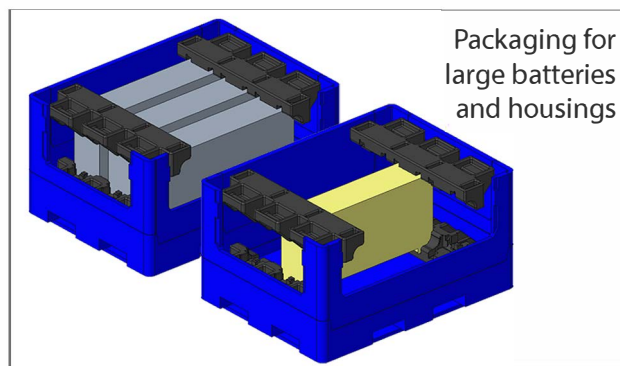
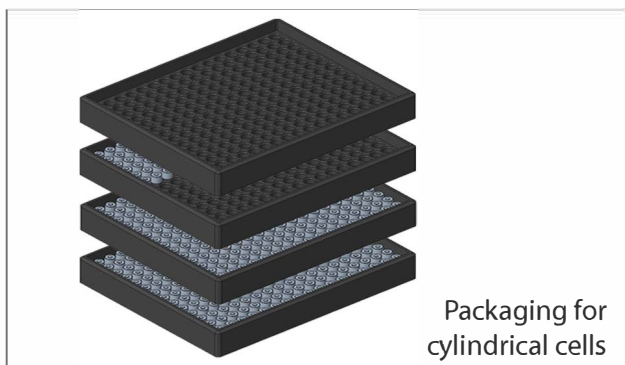
How To Efficiently Package Lithium-Ion Batteries

- ⚙️ Long service life due to production process and all-plastic design
- 🌿 Reduction of CO₂ emissions by 60-70 kg per load carrier due to use of recycled materials*
- 📊 Fold-down-ratio up to 1 : 2** - Reducing the costs for return shipment by up to 50%
- 🚚 Space savings due to stackable design when loaded: up to 1 + 5 static / 1 + 2 dynamic
- 🛡️ Maximum gross weight of 477-915 kg in accordance with RID/ADR
- ♻️ Buyback option for obsolete containers, eliminating packaging disposal by reusable, recyclable designs

* according to a calculation with the Walmart Gigaton Calculator

** depending on inner packaging solution

PACKAGING EXAMPLES



Product Specifications: IonPak®

Specifications (All dimensions in mm, unless otherwise indicated)

Model	HDB1210-600 STR	HDB1210-582 R	HDB1210-750 STR	HDB1210-732 R
Available Bottom Configuration	Full Stringer	3 Runners	Full Stringer	3 Runners
Certification	UN4H2	UN4H2	UN4H2	UN4H2
Outside Dimensions (L x W x H)	1200 x 1000 x 600	1200 x 1000 x 582	1200 x 1000 x 750	1200 x 1000 x 732
Inside Dimensions (L x W x H)	1113 x 913 x 462	1113 x 913 x 462	913 x 1113 x 612	913 x 1113 x 612
Product Clearance	434	434	585	585
Collapsed Height	335	317	335	317
Gross Container Capacity (kg)	477	477	477	477
Internal Volume to fill line (liters)	441	441	594	594
Weight (kg) (w/o inner packaging)	54	51	61	57

Specifications (All dimensions in mm, unless otherwise indicated)

Model	HDB1210-888 STR	HDB1210-870 R	HDB1210-998 STR	HDB1210-980 R
Available Bottom Configuration	Full Stringer	3 Runners	Full Stringer	3 Runners
Certification	UN4H2	UN4H2	UN4H2	UN4H2
Outside Dimensions (L x W x H)	1200 x 1000 x 888	1200 x 1000 x 870	1200 x 1000 x 998	1200 x 1000 x 980
Inside Dimensions (L x W x H)	1113 x 913 x 750	1113 x 913 x 750	1113 x 913 x 860	1113 x 913 x 860
Product Clearance	723	723	834	834
Collapsed Height	335	317	335	317
Gross Container Capacity (kg)	477	477	477	477
Internal Volume to fill line (liters)	735	735	847	847
Weight (kg) (w/o inner packaging)	68	64	73	69

Specifications (All dimensions in mm, unless otherwise indicated)

Model	HDB1208-960	HDR6548-34 NV
Available Bottom Configuration	3 Runners	Full Stringer
Certification	UN4H2	UN50H
Outside Dimensions (L x W x H)	1200 x 800 x 960	1638 x 1219 x 879
Inside Dimensions (L x W x H)	1120 x 720 x 805	1557 x 1138
Product Clearance	776	681
Collapsed Height	354	345
Gross Container Capacity (kg)	477	915
Internal Volume to fill line (liters)	625	1206
Weight (kg) (w/o inner packaging)	65	98

Compatible Top Cap	CHDB1210 Top Cap	CHDB1208 Top
Manufacturing Process	High Pressure	High Pressure
Material	HDPE	HDPE
Outside Dimensions (L x W x H)	1213 x 1013 x 52	1225 x 825 x 51
Weight (kg)	5,75	5,4

Additional dimensions available upon request.

Contact

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