



PRODUCT CATALOG

REUSABLE PACKAGING SOLUTIONS FOR INDUSTRIAL AND AUTOMOTIVE

ORBIS®

 Powered by Menasha Corporation



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TOUCH THE FUTURE
AND SHIP MORE OF YOUR PRODUCTS

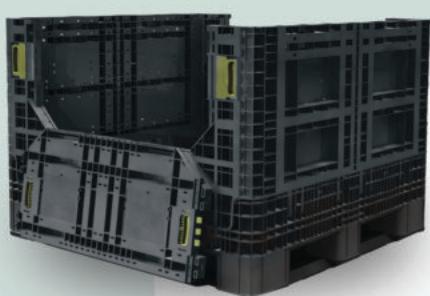


GITTERPAK®



AUTOPAK





OCEANPAK®



PALLET'S



KLT's



IONPAK®



SUSTAINABILITY

Helping Customers Drive Sustainability

ORBIS helps world-class customers move their product faster, safer and more cost-effectively. Using a proven approach, ORBIS experts analyze their customers' systems, design a solution and execute a reusable packaging program for longer-term cost savings and sustainability. Using life-cycle assessments to compare reusable and single-use packaging, we help our customers reduce their overall environmental impact.

By design, reusable plastic totes, pallets, dunnage and FLC systems are used over and over during the course of their service life. At the end of their life, they can be recovered, recycled and reprocessed into new packaging products, without entering the solid waste stream.

When you use plastic reusable packaging, not only will you reduce shipping and waste disposal costs, but you will make a positive impact on the environment.



UNBIASED

life-cycle comparison
of single use and
reusable packaging

COMPARES

greenhouse gas
emissions, energy usage
and solid waste impacts

MEASURES

your impact
on the environment

PROVIDES

full analysis and
comparison of
packaging



 Powered by Menasha Corporation

RECYCLING



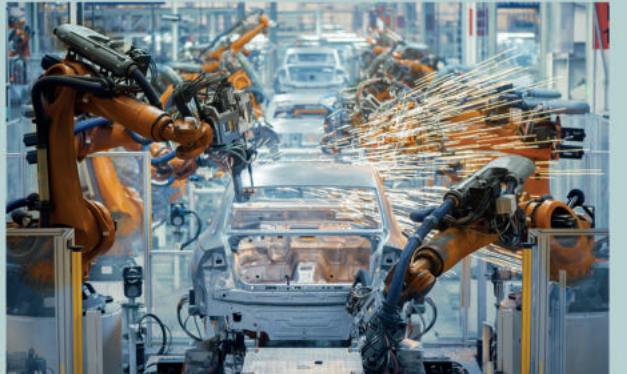
ORBIS offers a comprehensive recycling program for the efficient recovery of your obsolete and surplus packaging. By design, plastic reusable packaging can be fully recycled and used in other useful products at the end of its service life.

ORBIS' environmentally sound program allows your plastic reusable packaging products to be recovered, recycled and reprocessed into new products. When compared to one-time use or disposable packaging, the reusability and recyclability of ORBIS containers and pallets enables significant source reduction.

RECYCLE WITH ORBIS helps you to make a positive impact on the environment.



MARKET OVERVIEW



Automotive

ORBIS' plastic reusable packaging improves the flow of products all along the automotive supply chain for significant cost reduction. For decades, ORBIS has led the conversion of plastic reusable packaging in the automotive industry and today continues to manage vehicle launches with leading automotive manufacturers and suppliers. ORBIS experts facilitate a well-planned, collaborative approach to implementing reusable packaging to maximize the automotive supply chain.

Food & Beverage

ORBIS leads the way in reusable plastic packaging for the beverage industry focusing on improved food safety, reduced risk of product damage, improved facility cleanliness and enhanced supply chain performance. Reusable packaging drives value at every point of the supply chain, including food and beverage container manufacturing, work-in-process, finished goods storage, distribution, direct-store deliveries and merchandising.



FMCG

ORBIS reusable plastic pallets and containers are ideal for FMCG transport and storage applications because of their non-porous surfaces, cleanability and contoured design for easy handling when compared to wood or fiber alternatives, ORBIS' packaging reduces the risk of nails, wood splinters, dust and other debris from damaging FMCG products in the supply chain.

MARKET OVERVIEW

Industrial Manufacturing

ORBIS offers a wide range of standardized and customized reusable packaging systems designed to optimize the supply chain and withstand the rigorous, heavy load requirements of the industrial manufacturing market. From heavy-duty FLC and durable pallets to hand-held KLT and custom protective dunnage, ORBIS offers packaging solutions to maximize product flow efficiency in the industrial manufacturing environment.

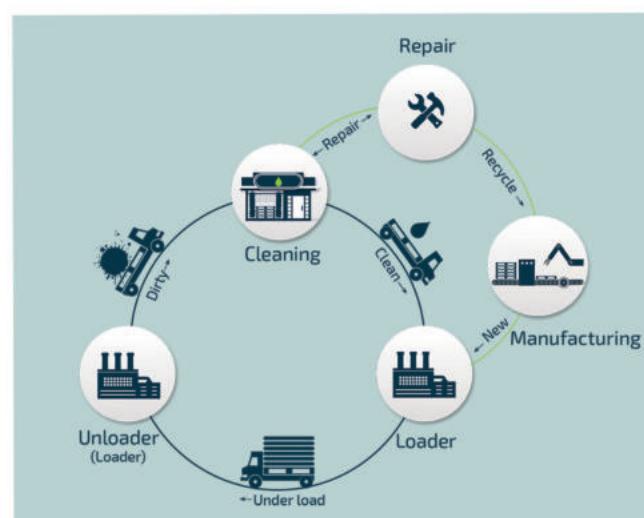


Retail

To support FMCG suppliers and retailers, ORBIS offers a wide variety of reusable containers and pallets to move products throughout the retail supply chain. ORBIS products interface seamlessly with automated systems, optimize picking systems, enhance point-of-purchase displays and reduces system downtime by moving products from the distribution center to the retailer faster, safer and more cost-effectively.

Packaging Management & Pooling

ORBIS' pooling and container management services cut the time and effort needed to track, retrieve, clean and inventory packaging assets in a wide variety of industries including automotive, industrial, food, beverage and retail. Combined with the expertise of packaging design and manufacturing, ORBIS has the industry leading knowledge to maximize regional as well as global supply chains and reduce the total cost of supply chain management.



OUR PRODUCTS

Foldable Large Containers (FLC)

Kleinladungsträger (KLT)

Pallets

Dunnage



ORBIS BULKPAK® FAMILY

ORBIS BulkPak® brand of containers help global automotive and industrial companies streamline part shipments and reduce supply chain waste. ORBIS manufactures a portfolio of FLCs in Europe. These products are designed to protect and transport parts in automotive and industrial applications.

The ORBIS BulkPak® FLC's stack securely when full and fold when empty for return trips, for improved truck utilization. The whole portfolio is structurally foam molded in high density polyethylene. This way, ORBIS provides innovative alternatives to steel packaging

900 KG WEIGHT CAPACITY

COLLAPSIBLE

STACKABLE

NO RUST



APAK



OCEANPAK®

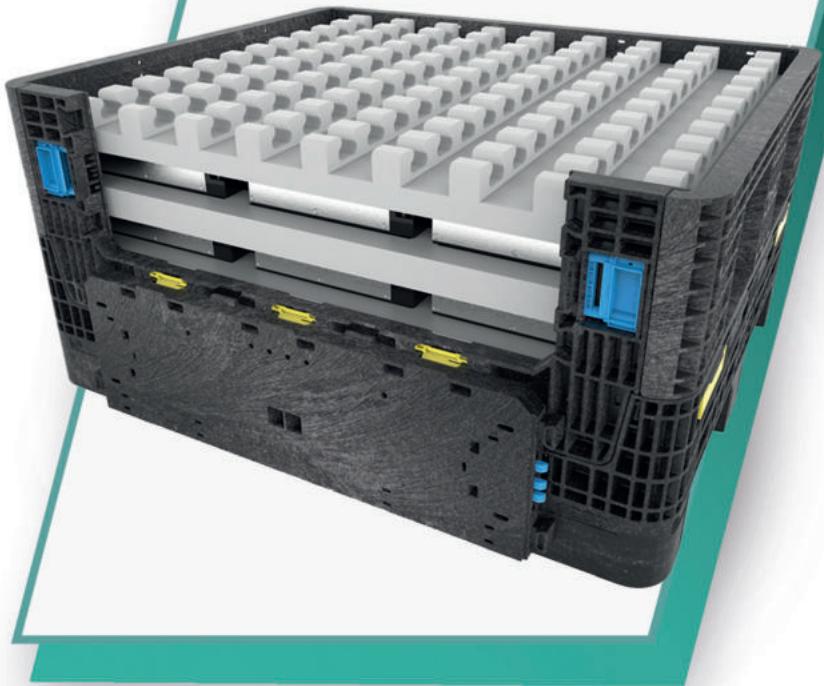


IONPAK®



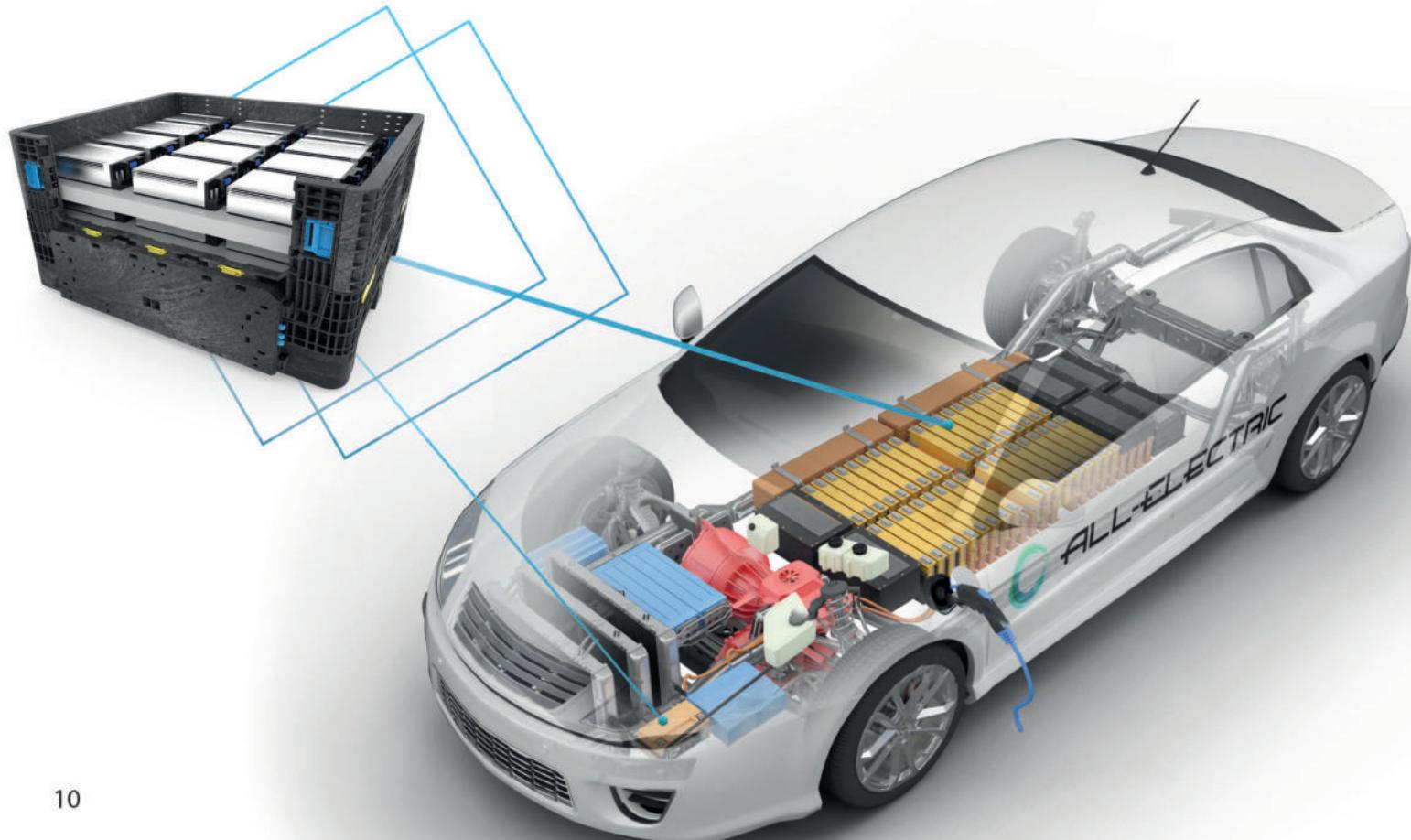
GITTERPAK®

The collapsible heavy-duty IonPak® is designed to transport modular lithium-ion batteries safely, damage-free and cost-efficiently.



IonPak® Overview

- weight capacity of 900kg
- collapsible to reduce shipping cost
- ideal footprint for logistics and automated systems
- multiple bottom configurations
- multiple access door configurations
- easy to clean, rust-free, preventing metal-on-metal part damage with all plastic design



Lithium Ion Automotive Battery Packaging

- ORBIS IonPak® is UN 3480 certified
- Successfully converts original steel case packaging to a collapsible plastic container, with protective foam dunnage layers
- Utilizes an automotive industry standard footprint designed to interface with customers existing supply chain
- Increases return ratio and warehousing savings with a collapsible container design
- Eliminates risk of rust contamination and operator safety hazards

IonPak® Product Specifications

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | 1000 x 1200 x 600/582 | | 1000 x 1200 x 750/732 | |
|--------------------------------|-----------------------|-------------------|-----------------------|-------------------|
| Available Bottom Configuration | Full Stringer | 3 Runners | Full Stringer | 3 Runners |
| Outside Dimensions (L x W x H) | 1000 x 1200 x 600 | 1000 x 1200 x 582 | 1000 x 1200 x 750 | 1000 x 1200 x 732 |
| Inside Dimensions (L x W) | 913 x 1113 x 462 | 913 x 1113 x 462 | 913 x 1113 x 612 | 913 x 1113 x 612 |
| Collapsed Height | 335 | 317 | 335 | 317 |
| Container Capacity (kg) | 900 | 900 | 900 | 900 |
| Weight (kg) | 54 | 51 | 61 | 57 |

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | 1000 x 1200 x 888/870 | | 1000 x 1200 x 998/980 | |
|--------------------------------|-----------------------|-------------------|-----------------------|-------------------|
| Available Bottom Configuration | Full Stringer | 3 Runners | Full Stringer | 3 Runners |
| Outside Dimensions (L x W x H) | 1000 x 1200 x 888 | 1000 x 1200 x 870 | 1000 x 1200 x 998 | 1000 x 1200 x 980 |
| Inside Dimensions (L x W) | 913 x 1113 x 750 | 913 x 1113 x 750 | 913 x 1113 x 860 | 913 x 1113 x 860 |
| Collapsed Height | 335 | 317 | 335 | 317 |
| Container Capacity (kg) | 900 | 900 | 900 | 900 |
| Weight (kg) | 68 | 64 | 73 | 69 |

Find more detailed information on page 27.





**Collapsible heavy-duty GitterPak® –
the ideal, reliable packaging
substitute for steel gitterboxes.**



GitterPak® Overview

- European standard 1200x800 footprint
- weight capacity of 900kg
- collapsible to reduce shipping cost
- ideal footprint for logistics and automated systems
- multiple access door configurations
- multiple bottom configurations
- easy to clean, rust-free, preventing metal-on-metal part damage with all plastic design





HDB108-960 with top cap



HDB1208-960 with three runner base

GitterPak® Product Specifications

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | HDB1208-960 |
|--------------------------------|------------------|
| Outside Dimensions (L x W x H) | 1200 x 800 x 960 |
| Inside Dimensions (L x W) | 1120 x 720 |
| Collapsed Height | 354 |
| Container Capacity (kg) | 900 |
| Weight (kg) | 65 |

Find more detailed information on page 26.



GitterPak:
272 Units

Steel
Gitterboxes:
78 Units



HDB1012

The collapsible heavy-duty HDB1012 is designed to protect and transport parts in global automotive and industrial applications.



HDB1012 Overview

- automotive industry standard
- 1000x1200 footprint
- weight capacity of 900kg
- collapsible to reduce shipping cost
- ideal footprint for logistics and automated systems
- multiple access door configurations
- multiple bottom configurations
- multiple heights
- easy to clean, rust-free, preventing metal-on-metal part damage with all plastic design



HDB1012 Product Specifications

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | 1000 x 1200 x 888/870 | | 1000 x 1200 x 998/980 | |
|--------------------------------|-----------------------|-------------------|-----------------------|-------------------|
| | HDB1012-888 STR | HDB1012-870 R | HDB1012-998 STR | HDB1012-980 R |
| Available Bottom Configuration | Full Stringer | 3 Runners | Full Stringer | 3 Runners |
| Outside Dimensions (L x W x H) | 1000 x 1200 x 888 | 1000 x 1200 x 870 | 1000 x 1200 x 998 | 1000 x 1200 x 980 |
| Inside Dimensions (L x W) | 913 x 1113 x 750 | 913 x 1113 x 750 | 913 x 1113 x 860 | 913 x 1113 x 860 |
| Collapsed Height | 335 | 317 | 335 | 317 |
| Container Capacity (kg) | 900 | 900 | 900 | 900 |
| Weight (kg) | 68 | 64 | 73 | 69 |

Find more detailed information on page 28-29.

Heights



HDB1012-582



HDB1012-732



HDB1012-870



HDB1012-980

Bottom Configurations



Full Stringer (STR)



3 Runner (R)



The collapsible heavy-duty OceanPak® is designed for intercontinental shipments and offers an efficient footprint that optimizes an ISO sea-container.



OceanPak® Overview

- weight capacity of 900kg
- collapsible to reduce shipping cost
- ideal for long distance sea freight transportation
- multiple bottom configurations
- easy to clean, rust-free, preventing metal-on-metal part damage with all plastic design

OceanPak® Product Specifications

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | HDI 119114-84 (Full Stringer) |
|--------------------------------|----------------------------------|
| Outside Dimensions (L x W x H) | 1190 x 1135 x 840 |
| Inside Dimensions (L x W) | 1120 x 1065 |
| Collapsed Height | 330 |
| Container Capacity (kg) | 900 |
| Weight (kg) | 47 |

Find more detailed information on page 24.



HDI:
160 units
Empty /
Collapsed



HDI:
60 units
Full /
Assembled

ORBIS BULKPAK® HDR FAMILY

ORBIS offers a diverse family of heavy-duty BulkPak® FLCs for rugged industrial and automotive applications. These robust containers are designed for a long service life and are available in a variety of footprints. From small-format to extended length collapsible designs to durable, fixed wall designs, these containers are ideal for handling, storing and transporting parts in the supply chain. These specialty FLC's are structurally foam molded in high density polyethylene and are ideal alternatives to steel packaging and other expendable packaging.

COLLAPSIBLE



STACKABLE



NO RUST



EXTENDED LENGTH



32" x 30"

FIXED WALL CONTAINERS



BULKTOTE

HDR Extended Length

The collapsible heavy-duty Extended Length is designed to handle extremely long and hard-to-fit parts.



HDR7048-34

HDR Extended Length Overview

- stackable to reduce shipping cost
- ideal size for logistics and automated systems
- multiple access door configurations
- extra wide access doors
- multiple identification options available
- structural foammolded in high-density polyethylene for durability
- multiple bottom configurations
- easy to clean, rust-free, preventing metal-on-metal part damage with all plastic design
- all plastic picture frame bottom with rounded legs for easy fork truck handling

HDR6548-50



HDR Extended Length Product Specifications

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | HDR5648-34 NV | HDR6548-25 NV | HDR6548-34 NV |
|--------------------------------|-------------------------|-------------------------|-------------------------|
| Outside Dimensions (L x W x H) | 1435,1 x 1219,2 x 878,8 | 1638,3 x 1219,2 x 650,2 | 1638,3 x 1219,2 x 878,8 |
| Inside Dimensions (L x W) | 1353,8 x 1137,9 | 1557 x 1137,9 | 1557 x 1137,9 |
| Collapsed Height | 345,4 | 345,4 | 345,4 |
| Container Capacity (kg) | 900 | 900 | 900 |
| Weight (kg) | 89,1 | 81,9 | 98,1 |

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | HDR6548-50 | HDR7048-34 | HDR7848-34 |
|--------------------------------|------------------------|-----------------------|-------------------------|
| Outside Dimensions (L x W x H) | 1638,3 x 1219,2 x 1270 | 1778 x 1219,2 x 863,6 | 1981,2 x 1219,2 x 863,6 |
| Inside Dimensions (L x W) | 1557 x 1137,9 | 1686,6 x 1130,3 | 1892,3 x 1130,3 |
| Collapsed Height | 561,3 | 337,8 | 337,8 |
| Container Capacity (kg) | 900 | 675 | 675 |
| Weight (kg) | 113,4 | 102,6 | 103,5 |

Find more detailed information on page 31.

HDR 32" x 30"

The heavy-duty 32" x 30" containers are ideal for metal stampings and other heavy, dense components. These FLCs are built for long-lasting durability in heavy-duty applications.



HDR3230-34

HDR 32" x 30" Overview

- weight capacity of 900kg
- stackable to reduce shipping cost
- ideal footprint for logistics and automated systems
- multiple access door configurations
- multiple bottom configurations
- easy to clean, rust-free, preventing metal-on-metal part damage with all plastic design

HDR3230-34



HDR3230-25

HDR 32" x 30" Product Specifications

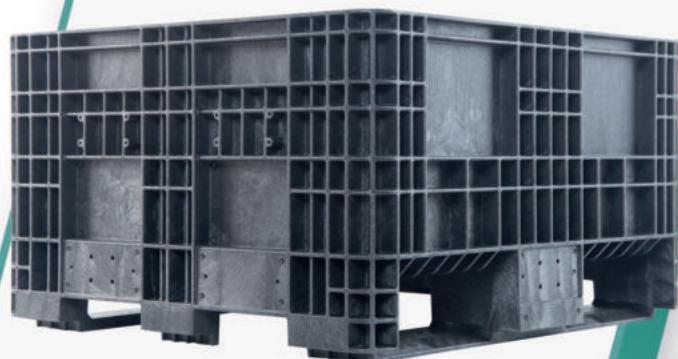
Specifications (All dimensions in mm, unless otherwise indicated)

| Model | HDR3230-25 NV | HDR3230-34 NV |
|--------------------------------|-------------------|---------------------|
| Outside Dimensions (L x W x H) | 812,8 x 762 x 635 | 812,8 x 762 x 863,6 |
| Inside Dimensions (L x W) | 741,7 x 693,4 | 741,7 x 693,4 |
| Container Capacity (kg) | 900 | 900 |
| Collapsed Height | 335,3 | 335,3 |
| Weight (kg) | 29,3 | 36,5 |

Find more detailed information on page 27.

HDR Fixed Wall Containers

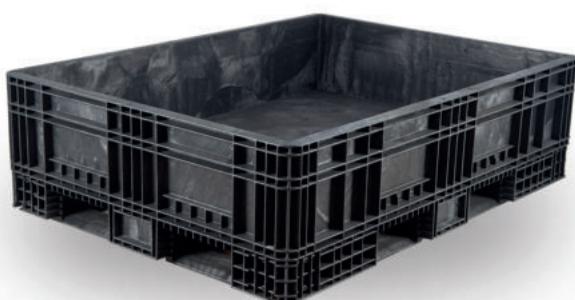
ORBIS offers a variety of fixed wall containers for extremely heavy, dense loads. Designed to hold 900kg and to replace wire baskets, these robust containers are built for long-lasting durability in heavy-duty applications.



HDRS230



HDRS4548



HDRS5648

Fixed Wall Containers Product Specifications

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | HDRS3230-18 | HDRS4048-16 |
|--------------------------------|-----------------|-------------------|
| Outside Dimensions (L x W x H) | 813 x 762 x 457 | 1201 x 1006 x 409 |
| Inside Dimensions (L x W) | 742 x 693 | 1107 x 914 |
| Container Capacity (kg) | 900 | 900 |
| Weight (kg) | 23 | 42 |

Specifications (All dimensions in mm, unless otherwise indicated)

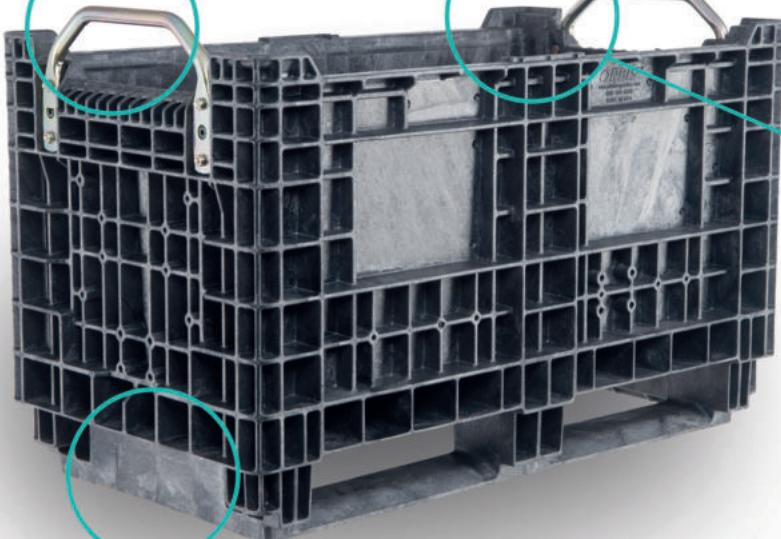
| Model | HDRS4548-19 | HDRS4548-21 | HDRS4548-24 |
|--------------------------------|-------------------|-------------------|-------------------|
| Outside Dimensions (L x W x H) | 1219 x 1143 x 490 | 1219 x 1143 x 541 | 1219 x 1143 x 630 |
| Inside Dimensions (L x W) | 1125 x 1049 | 1125 x 1049 | 1125 x 1049 |
| Container Capacity (kg) | 900 | 900 | 900 |
| Weight (kg) | 45,9 | 48,6 | 54 |

Find more detailed information on page 30.

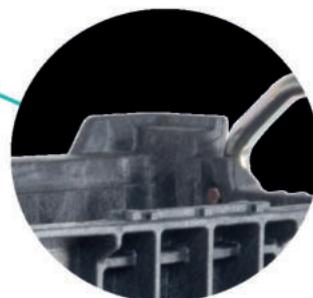


BULKTOTE®

MAXIMIZED FOOTPRINT



CORNER STABILITY



SAFE HANDLING

30" x 16" BulkTote® Overview

- 30" x 16" profile and forktruck entry on all four sides delivers versatility to the entry line
- better use of internal capacity optimizes the amount of parts delivered to the line
- structural foam molded in high-density polyethylene (HDPE) for a long service life
- ideal for heavy/dense parts, metal stampings, industrial hosing



VDA KLTS

ORBIS offers a variety of VDA KLT straight wall totes for a wide range of applications. ESD-safe materials are available for electrical component packaging.



R-KLT



RL-KLT
ESD



Smooth Bottom
with Drainholes



Smooth Bottom



Reinforced Bottom

VDA KLT's Product Specifications

Specifications (All dimensions in mm, unless otherwise indicated)

| Model R-KLT VDA CERTIFIED | | R-KLT 3215 VDA | RL-KLT 3147 VDA | C-KLT 3214VDA |
|--------------------------------|-------------------------|-----------------|-----------------|-----------------|
| Outside Dimensions (L x W x H) | | 300 x 200 x 147 | 300 x 200 x 147 | 300 x 200 x 147 |
| Inside Dimensions (L x W) | | 243 x 162 | 243 x 162 | 263 x 138 |
| Internal Height | | 129,5 | 129,5 | 118,5 |
| ESD Material Available | | yes | yes | yes |
| Pieces/Pallet | 80 x 120 Export Pallet | 360 | 360 | 360 |
| | 100 x 120 Export Pallet | 320 | 320 | 320 |

| Model KLT LIDS VDA CERTIFIED | | D-32 LID | D-43 LID | D-35 LID |
|--------------------------------|-------------------------|---------------|------------------|----------------|
| Outside Dimensions (L x W x H) | | 267 x 150 x 8 | 365 x 267,2 x 25 | 268 x 170 x 17 |
| ESD Material Available | | yes | yes | yes |
| Material | | PP | PP | PP |
| Pieces/Pallet | 80 x 120 Export Pallet | 1000 | 500 | 100 |
| | 100 x 120 Export Pallet | 800 | 400 | 800 |

Find more detailed information on page 32.

Examples of ORBIS' KLT offerings.



A1208-1

Dimension: 800 x 1210 x 84 mm

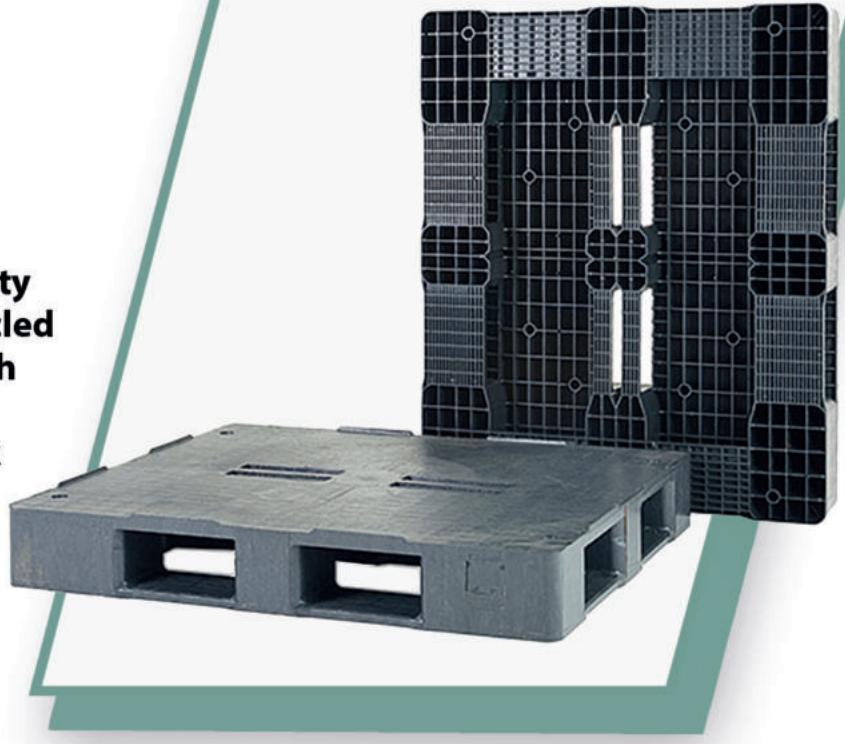


A1210 Lid

Dimension: 1000 x 1200 x 66 mm

Pallets

Durable, insusceptible to impact and extremely robust – ORBIS' high-quality plastic pallets made of virgin or recycled material makes them suitable for high circulation rates. The structural foam manufacturing process allows a thick walled, robust design. That makes structural foam plastic pallets particularly resistant to deflection when they are used in high-bay racking. ORBIS plastic pallets are designed for a long service life and offer an environmental alternative to wood pallets.



Heavy Duty Industrial (1200x1000)

- 6-Runner Pallet designed for heavy loads
- racking capacity of 2000kg
- ideal for high rotation applications



Industry Standard Dimensions (1200x1000)

- ideal for semi-hygenic applications
- for high-rotation usage
- especially useful when the pallet is used in racks



Euro Dimension Pallet (1200x800)

- 3-Runner Plastic Pallet with extra high safety rim
- various loading capacities
- designed to interface with racking and conveyor systems



CUSTOM PROTECTIVE DUNNAGE



Dunnage Design Considerations

- part size
- part weight
- weight distribution
- part orientation
- part separation
- class A protection
- shock density
- ESD sensitivity
- pack density
- production volumes
- maximum container weight
- lineside presentation

Benefits include

- improves container load distribution
- consistent inventory measurements
- improves warehouse utilization
- reduces transportation costs
- reduces down-time on production lines
- reduces waste
- reduces packaging costs



Find more information on all dunnage options on
www.orbiscorporation.com

PRODUCT SPECIFICATIONS

Foldable Large Containers (FLCs)

Kleinladungsträger (KLTs)



PRODUCT SPECIFICATIONS

Foldable Large Containers (FLC's)

GitterPak®

See page 12



Specifications (All dimensions in mm, unless otherwise indicated)

| Model | HDB1208-960 | |
|--|------------------|---------------------------------------|
| Outside Dimensions (L x W x H) | 1200 x 800 x 960 | |
| Inside Dimensions (L x W) | 1120 x 720 | |
| Product Clearance | 776 | |
| Collapsed Height | 354 | |
| Container Capacity (kg) | 900 | |
| Internal Volume to fill line (liters) | 625 | |
| Weight (kg) | 65 | |
| Maximum Loaded Stack | Static | 6 High |
| | Dynamic | 3 High |
| Return Ratio | 2.7:1 | |
| Access Door Openings | Height | Long Side 465 Short Side 465 |
| | Width | Long Side 900 Short Side 420 |
| | Height | Long Side 79 Short Side 102 |
| | Width | Long Side 290 Short Side 224 |
| 40' Container Quantities (w/o covers) | Collapsed | 175 |
| | Assembled | 50 |
| 3m Truckload Quantities (w/o covers) | Collapsed | 272 |
| | Assembled | 102 |

Specifications (All dimensions in mm, unless otherwise indicated)

| Compatible Top Cap | CHDB1208 Top |
|--------------------------------|-----------------|
| Manufacturing Process | High Pressure |
| Material | HDPE |
| Outside Dimensions (L x W x H) | 1225 x 825 x 51 |
| Weight (kg) | 5,4 |

OceanPak®

See page 16



Specifications (All dimensions in mm, unless otherwise indicated)

| Model | HDI 11498-07 (9 Foot Caps) | HDI 11498-07 (3 Runners) | HDI 11498-10 (9 Foot Caps) | HDI 11498-10 (3 Runners) | HDI 119114-84 (Full Stringer) |
|--|--|--|-------------------------------|-----------------------------|----------------------------------|
| Outside Dimensions (L x W x H) | 1135 x 976 x 730 | 1135 x 976 x 760 | 1135 x 976 x 1016 | 1135 x 976 x 1046 | 1190 x 1135 x 840 |
| Inside Dimensions (L x W) | 1050 x 900 | 1050 x 900 | 1050 x 900 | 1050 x 900 | 1120 x 1065 |
| Product Clearance | 593 | 593 | 883 | 883 | 655 |
| Collapsed Height | 295 | 325 | 295 | 325 | 330 |
| Container Capacity (kg) | 600 | 600 | 600 | 600 | 900 |
| Internal Volume to fill line (liters) | 556 | 556 | 832 | 832 | 773 |
| Weight (kg) | 43 | 46 | 46 | 49 | 47 |
| Maximum Loaded Stack | Static | 6 High | 6 High | 6 High | 6 High |
| | Dynamic | 3 High | 3 High | 2 High | 3 High |
| Return Ratio | 2,5:1 | 2,3:1 | 3,5:1 | 3,2:1 | 2,5:1 |
| Access Door Openings | Height | Long Side 350 Width Long Side 714 | 350 714 | 519 714 | 519 799 |
| | Width | Long Side 63 Short Side 63 | 93 74 | 63 63 | 93 74 |
| Fork Openings | Height | Long Side 303 Width Short Side 224 | 303 224 | 303 224 | 303 260 |
| | Width | Long Side 224 Short Side 224 | 224 224 | 224 224 | 224 276 |
| | 20' Container Quantities (w/o covers) | Collapsed 96 | 84 | 96 | 84 |
| | Assembled | 36 | 36 | 24 | 18 |
| 40' Container Quantities (w/o covers) | Collapsed | 216 | 192 | 216 | 192 |
| | Assembled | 72 | 72 | 48 | 60 |
| 3m Truckload Quantities (w/o covers) | Collapsed | 260 | 234 | 260 | 234 |
| | Assembled | 104 | 104 | 52 | 66 |

PRODUCT SPECIFICATIONS

IonPak®

See page 10



Specifications (All dimensions in mm, unless otherwise indicated)

| Model | 1000 x 1200 x 600/582 | | 1000 x 1200 x 750/732 | |
|---------------------------------------|------------------------|----------------------|-----------------------|------------------------|
| Available Bottom Configuration | Full Stringer | 3 Runners | Full Stringer | 3 Runners |
| Outside Dimensions (L x W x H) | 1000 x 1200 x 600 | 1000 x 1200 x 582 | 1000 x 1200 x 750 | 1000 x 1200 x 732 |
| Inside Dimensions (L x W) | 913 x 1113 x 462 | 913 x 1113 x 462 | 913 x 1113 x 612 | 913 x 1113 x 612 |
| Product Clearance | 434 | 434 | 585 | 585 |
| Collapsed Height | 335 | 317 | 335 | 317 |
| Nested Height | 317 | 299 | 317 | 299 |
| Container Capacity (kg) | 900 | 900 | 900 | 900 |
| Internal Volume to fill line (liters) | 441 | 441 | 594 | 594 |
| Weight (kg) | 54 | 51 | 61 | 57 |
| Fork Strap Thickness | 18 | 18 (long side) | 18 | 18 (long side) |
| Fork Tunnel Dimensions (W x H) | 1000 Side 1200 Side | 288 x 90 288 x 90 | 288 x 90 288 x 90 | 288 x 90 289 x 72 |
| Access Door Dimensions (W x H) | 1000 Side 1200 Side | N/A 820 x 274 | N/A 820 x 274 | 754 x 349 820 x 349 |
| Maximum Loaded Stack | Static Dynamic | 6 High 4 High | 6 High 4 High | 6 High 4 High |

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | 1000 x 1200 x 888/870 | | 1000 x 1200 x 998/980 | |
|---------------------------------------|------------------------|------------------------|------------------------|------------------------|
| Available Bottom Configuration | Full Stringer | 3 Runners | Full Stringer | 3 Runners |
| Outside Dimensions (L x W x H) | 1000 x 1200 x 888 | 1000 x 1200 x 870 | 1000 x 1200 x 998 | 1000 x 1200 x 980 |
| Inside Dimensions (L x W) | 913 x 1113 x 750 | 913 x 1113 x 750 | 913 x 1113 x 860 | 913 x 1113 x 860 |
| Product Clearance | 723 | 723 | 834 | 834 |
| Collapsed Height | 335 | 317 | 335 | 317 |
| Nested Height | 317 | 299 | 317 | 299 |
| Container Capacity (kg) | 900 | 900 | 900 | 900 |
| Internal Volume to fill line (liters) | 735 | 735 | 847 | 847 |
| Weight (kg) | 68 | 64 | 73 | 69 |
| Fork Strap Thickness | 18 | 18 (long side) | 18 | 18 (long side) |
| Fork Tunnel Dimensions (W x H) | 1000 Side 1200 Side | 288 x 90 288 x 90 | 288 x 90 289 x 72 | 288 x 90 289 x 72 |
| Access Door Dimensions (W x H) | 1000 Side 1200 Side | 754 x 418 820 x 418 | 754 x 418 820 x 418 | 754 x 473 820 x 473 |
| Maximum Loaded Stack | Static Dynamic | 6 High 3 High | 6 High 3 High | 6 High 3 High |

HDR 32" x 30"

See page 19



Specifications (All dimensions in mm, unless otherwise indicated)

| Model | HDR3230-25 NV | HDR3230-34 NV |
|---------------------------------------|-------------------------|-------------------------|
| Outside Dimensions (L x W x H) | 813 x 762 x 635 | 813 x 762 x 864 |
| Inside Dimensions (L x W) | 742 x 693 | 743 x 693 |
| Product Clearance | 465 | 694 |
| Container Capacity (kg) | 900 | 900 |
| Collapsed Height | 335 | 335 |
| Internal Volume to fill line (liters) | 240 | 358 |
| Weight (kg) | 29,0 | 37 |
| Maximum Loaded Stack | Static Dynamic | 6 High 4 High |
| Return Ratio | 1:9:1 | 2:6:1 |
| Access Door Openings | Height Width | Long Side Long Side |
| | | 287 457 |
| | Height Width | Long Side Short Side |
| | | 87 57 |
| | Long Side Short Side | 260 181 |
| 40' Container Quantities (w/o covers) | Collapsed Assembled | 336 168 |
| 3m Truckload Quantities (w/o covers) | Collapsed Assembled | 432 192 |
| | | 126 144 |

| Cover | CHDR3230 |
|--------------------------------|----------------------|
| Outside Dimensions (L x W x H) | 838,2 x 787,4 x 76,2 |
| Inside Dimensions (L x W) | 774,7 x 823 |
| Product Clearance | 43,2 |
| Weight (kg) | 4,6 |

PRODUCT SPECIFICATIONS

HDB1012

See page 14



Specifications (All dimensions in mm, unless otherwise indicated)

| Model | 1000 x 1200 x 600/582 | | 1000 x 1200 x 750/732 | |
|---------------------------------------|-----------------------|-------------------|-----------------------|-------------------|
| | HDB1012-600 STR | HDB1012-582 R | HDB1012-750 STR | HDB1012-732 R |
| Available Bottom Configuration | Full Stringer | 3 Runners | Full Stringer | 3 Runners |
| Outside Dimensions (L x W x H) | 1000 x 1200 x 600 | 1000 x 1200 x 582 | 1000 x 1200 x 750 | 1000 x 1200 x 732 |
| Inside Dimensions (L x W) | 913 x 1113 x 462 | 913 x 1113 x 462 | 913 x 1113 x 612 | 913 x 1113 x 612 |
| Product Clearance | 434 | 434 | 585 | 585 |
| Collapsed Height | 335 | 317 | 335 | 317 |
| Nested Height | 317 | 299 | 317 | 299 |
| Container Capacity (kg) | 900 | 900 | 900 | 900 |
| Internal Volume to fill line (liters) | 441 | 441 | 594 | 594 |
| Weight (kg) | 54 | 51 | 61 | 57 |
| Fork Strap Thickness | 18 | 18 (long side) | 18 | 18 (long side) |
| Fork Tunnel Dimensions (W x H) | 1000 Side | 288 x 90 | 288 x 90 | 288 x 90 |
| | 1200 Side | 288 x 90 | 289 x 72 | 288 x 90 |
| Access Door Dimensions (W x H) | 1000 Side | N/A | N/A | 754 x 349 |
| | 1200 Side | 820 x 274 | 820 x 274 | 820 x 349 |
| Maximum Loaded Stack | Static | 6 High | 6 High | 6 High |
| | Dynamic | 4 High | 4 High | 4 High |

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | 1000 x 1200 x 888/870 | | 1000 x 1200 x 998/980 | |
|---------------------------------------|-----------------------|-------------------|-----------------------|-------------------|
| | HDB1012-888 STR | HDB1012-870 R | HDB1012-998 STR | HDB1012-980 R |
| Available Bottom Configuration | Full Stringer | 3 Runners | Full Stringer | 3 Runners |
| Outside Dimensions (L x W x H) | 1000 x 1200 x 888 | 1000 x 1200 x 870 | 1000 x 1200 x 998 | 1000 x 1200 x 980 |
| Inside Dimensions (L x W) | 913 x 1113 x 750 | 913 x 1113 x 750 | 913 x 1113 x 860 | 913 x 1113 x 860 |
| Product Clearance | 723 | 723 | 834 | 834 |
| Collapsed Height | 335 | 317 | 335 | 317 |
| Nested Height | 317 | 299 | 317 | 299 |
| Container Capacity (kg) | 900 | 900 | 900 | 900 |
| Internal Volume to fill line (liters) | 735 | 735 | 847 | 847 |
| Weight (kg) | 68 | 64 | 73 | 69 |
| Fork Strap Thickness | 18 | 18 (long side) | 18 | 18 (long side) |
| Fork Tunnel Dimensions (W x H) | 1000 Side | 288 x 90 | 288 x 90 | 288 x 90 |
| | 1200 Side | 288 x 90 | 289 x 72 | 288 x 90 |
| Access Door Dimensions (W x H) | 1000 Side | 754 x 418 | 754 x 418 | 754 x 473 |
| | 1200 Side | 820 x 418 | 820 x 418 | 820 x 473 |
| Maximum Loaded Stack | Static | 6 High | 6 High | 6 High |
| | Dynamic | 3 High | 3 High | 3 High |

Specifications (All dimensions in mm, unless otherwise indicated)

| Compatible Top Cap | CHDB1012 Top Cap | CHDR4048 Cover |
|--------------------------------|------------------|------------------|
| Manufacturing Process | High Pressure | Structural Foam |
| Material | HDPE | HDPE |
| Outside Dimensions (L x W x H) | 1013 x 1213 x 52 | 1019 x 1220 x 94 |
| Inside Dimensions (L x W) | 1007 x 1207 | 1006 x 1208 |
| Weight (kg) | 5,75 | 10,43 |

PRODUCT SPECIFICATIONS

HDB1012

See page 14



Shipping Specifications

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | 1000 x 1200 x 600/582 | | 1000 x 1200 x 750/732 | |
|--------------------------------------|-----------------------|---------------|-----------------------|---------------|
| | HDB1012-600 STR | HDB1012-582 R | HDB1012-750 STR | HDB1012-732 R |
| Available Bottom Configuration | Full Stringer | 3 Runners | Full Stringer | 3 Runners |
| Truckload Capacities (3m Trailer) | Collapsed | 234 | 234 | 234 |
| | Collapsed w/ top cap | 234 | 234 | 234 |
| | Assembled | 130 | 130 | 104 |
| | Assembled w/ top cap | 140 | 130 | 78 |
| Sea Container (40' HC) | Collapsed | 168 | 168 | 168 |
| | Collapsed w/ top cap | 147 | 168 | 147 |
| | Assembled | 84 | 84 | 63 |
| | Assembled w/ top cap | 84 | 84 | 63 |

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | 1000 x 1200 x 888/870 | | 1000 x 1200 x 998/980 | |
|--------------------------------------|-----------------------|---------------|-----------------------|---------------|
| | HDB1012-888 STR | HDB1012-870 R | HDB1012-998 STR | HDB1012-980 R |
| Available Bottom Configuration | Full Stringer | 3 Runners | Full Stringer | 3 Runners |
| Truckload Capacities (3m Trailer) | Collapsed | 234 | 234 | 234 |
| | Collapsed w/ top cap | 234 | 234 | 234 |
| | Assembled | 78 | 78 | 78 |
| | Assembled w/ top cap | 78 | 78 | 52 |
| Sea Container (40' HC) | Collapsed | 168 | 168 | 168 |
| | Collapsed w/ top cap | 147 | 168 | 147 |
| | Assembled | 42 | 42 | 42 |
| | Assembled w/ top cap | 42 | 42 | 42 |

Specifications (All dimensions in mm, unless otherwise indicated)

| 3m - Mega Trailer | Internal Dimension (m): 13,60 x 2,45 x 3 | ORBIS BULKPAK | STEEL STILLAGE |
|---------------------------|---|---------------|----------------|
| | Weight limit: 24,000 kg | | |
| Return Freight Comparison | Quantity of Containers per Trailer | 78 | 78 |
| | Quantity of Returned Containers per Trailer | 234 | 78 |
| | Return Ratio | 3 : 1 | 1 : 1 |
| Weight Comparison | Total Packaging Tare Weight (kg) | 5,382 kg | 11,700 kg |
| | Maximum Packaged Product Weight (kg) | 18,618 kg | 12,300 kg |

PRODUCT SPECIFICATIONS

Fixed Wall Containers

See page 20



Specifications (All dimensions in mm, unless otherwise indicated)

| Model | | HDRS3230-18 | HDRS4048-16 |
|---------------------------------------|-----------|-----------------|-------------------|
| Outside Dimensions (L x W x H) | | 813 x 762 x 457 | 1201 x 1006 x 409 |
| Inside Dimensions (L x W) | | 742 x 693 | 1107 x 914 |
| Product Clearance | | 292 | 236 |
| Container Capacity (kg) | | 900 | 900 |
| Internal Volume to fill line (liters) | | 150 | 239 |
| Weight (kg) | | 23 | 42 |
| Maximum Loaded Stack | Static | 6 High | 6 High |
| | Dynamic | 5 High | 5 High |
| Return Ratio | | 1 : 1 | 1 : 1 |
| Fork Openings | Height | Long Side | 87 |
| | | Short Side | 57 |
| | Width | Long Side | 260 |
| | | Short Side | 181 |
| 40' Container Quantities (w/o covers) | Assembled | 210 | 126 |
| 3m Truckload Quantities (w/o covers) | Assembled | 300 | 180 |

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | | HDRS4548-19 | HDRS4548-21 | HDRS4548-24 |
|---------------------------------------|-----------|-------------------|-------------------|-------------------|
| Outside Dimensions (L x W x H) | | 1219 x 1143 x 490 | 1219 x 1143 x 541 | 1219 x 1143 x 630 |
| Inside Dimensions (L x W) | | 1125 x 1049 | 1125 x 1049 | 1125 x 1049 |
| Product Clearance | | 323 | 373 | 457 |
| Container Capacity (kg) | | 900 | 900 | 900 |
| Internal Volume to fill line (liters) | | 381 | 441 | 540 |
| Weight (kg) | | 45,9 | 48,6 | 54 |
| Maximum Loaded Stack | Static | 6 High | 6 High | 6 High |
| | Dynamic | 6 High | 6 High | 4 High |
| Return Ratio | | 1 : 1 | 1 : 1 | 1 : 1 |
| Fork Openings | Height | Long Side | 91 | 91 |
| | | Short Side | 91 | 91 |
| | Width | Long Side | 262 | 262 |
| | | Short Side | 246 | 246 |
| 40' Container Quantities (w/o covers) | Assembled | 90 | 90 | 72 |
| 3m Truckload Quantities (w/o covers) | Assembled | 130 | 130 | 104 |

PRODUCT SPECIFICATIONS

Extended Length FLC's

See page 18



Specifications (All dimensions in mm, unless otherwise indicated)

| Model | | HDR5648-34 NV | HDR6548-25 NV | HDR6548-34 NV |
|--|-----------|-------------------|-------------------|-------------------|
| Outside Dimensions (L x W x H) | | 1435 x 1219 x 879 | 1638 x 1219 x 650 | 1638 x 1219 x 879 |
| Inside Dimensions (L x W) | | 1354 x 1138 | 1557 x 1138 | 1557 x 1138 |
| Product Clearance | | 683 | 457 | 681 |
| Collapsed Height | | 345 | 345 | 345 |
| Container Capacity (kg) | | 900 | 900 | 900 |
| Internal Volume to fill line (liters) | | 1052 | 810 | 1206 |
| Weight (kg) | | 89 | 82 | 98 |
| Maximum Loaded Stack | Static | 3 High | 5 High | 5 High |
| | Dynamic | 3 High | 4 High | 3 High |
| Return Ratio | | 2,6:1 | 1,9:1 | 2,6:1 |
| Access Door Openings | Height | Long Side | 437 | 310 |
| | | Short side | 437 | 229 |
| | Width | Long Side | 1036 | 1278 |
| | | Short Side | 777 | 823 |
| Fork Openings | Height | Long Side | 89 | 89 |
| | | Short Side | 89 | 89 |
| | Width | Long Side | 325 | 274 |
| | | Short Side | 325 | 274 |
| 40' Container Quantities (w/o covers) | Collapsed | 72 | 72 | 72 |
| | Assembled | 27 | 36 | 27 |
| 3m Truckload Quantities (w/o covers) | Collapsed | 162 | 144 | 144 |
| | Assembled | 54 | 64 | 48 |

Specifications (All dimensions in mm, unless otherwise indicated)

| Model | | HDR6548-50 | HDR7048-34 | HDR7848-34 |
|--|-----------|--------------------|-------------------|-------------------|
| Outside Dimensions (L x W x H) | | 1638 x 1219 x 1270 | 1778 x 1219 x 864 | 1981 x 1219 x 864 |
| Inside Dimensions (L x W) | | 1557 x 1138 | 1687 x 1130 | 1892 x 1130 |
| Product Clearance | | 1090 | 678 | 678 |
| Collapsed Height | | 561 | 338 | 338 |
| Container Capacity (kg) | | 900 | 675 | 675 |
| Internal Volume to fill line (liters) | | 1931 | 1293 | 1451 |
| Weight (kg) | | 113 | 103 | 104 |
| Maximum Loaded Stack | Static | 4 High | 4 High | 4 High |
| | Dynamic | 2 High | 3 High | 3 High |
| Return Ratio | | 2,3:1 | 2,6:1 | 2,6:1 |
| Access Door Openings | Height | Long Side | 620 | 424 |
| | | Short side | 391 | 428 |
| | Width | Long Side | 1278 | 1161 |
| | | Short Side | 823 | 838 |
| Fork Openings | Height | Long Side | 89 | 89 |
| | | Short Side | 89 | 89 |
| | Width | Long Side | 274 | 302 |
| | | Short Side | 274 | 302 |
| 40' Container Quantities (w/o covers) | Collapsed | 36 | 72 | 72 |
| | Assembled | 18 | 27 | 27 |
| 3m Truckload Quantities (w/o covers) | Collapsed | 80 | 126 | 108 |
| | Assembled | 32 | 42 | 36 |

PRODUCT SPECIFICATIONS

Kleinladungsträger (KLT's)

VDA KLT

See page 22



Specifications (All dimensions in mm, unless otherwise indicated)

| Model R-KLT VDA CERTIFIED | R-KLT 3215 VDA | R-KLT 4315 VDA | R-KLT 4322 VDA | R-KLT 4329 VDA | R-KLT 6415 VDA | R-KLT 6422 VDA | R-KLT 6429 VDA |
|---------------------------------------|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Outside Dimensions (L x W x H) | 300 x 200 x 147 | 400 x 300 x 147 | 400 x 300 x 213 | 400 x 300 x 280 | 600 x 400 x 147 | 600 x 400 x 213 | 600 x 400 x 280 |
| Inside Dimensions (L x W) | 243 x 162 | 346 x 265 | 346 x 265 | 346 x 265 | 544 x 364 | 544 x 364 | 544 x 364 |
| Internal Height | 129,5 | 109,5 | 198 | 242 | 109,5 | 198 | 242 |
| Internal Volume to fill line (liters) | 5,1 | 10 | 18,2 | 22,2 | 21,7 | 39,2 | 48 |
| Weight (kg) | 0,57 | 1,28 | 1,61 | 1,85 | 1,82 | 2,6 | 2,97 |
| ESD Material Available | yes | yes | yes | yes | yes | yes | yes |
| Material | PP | PP | PP | PP | PP | PP | PP |
| Pieces/Pallet | 80 x 120 Export Pallet | 360 | 180 | 120 | 90 | 60 | 45 |
| | 100 x 120 Export Pallet | 320 | 160 | 104 | 80 | 52 | 40 |
| 3m Mega Trailer (120x80 pallet loads) | 10,560 | 5,280 | 3,432 | 2,640 | 2,640 | 1,716 | 1,320 |

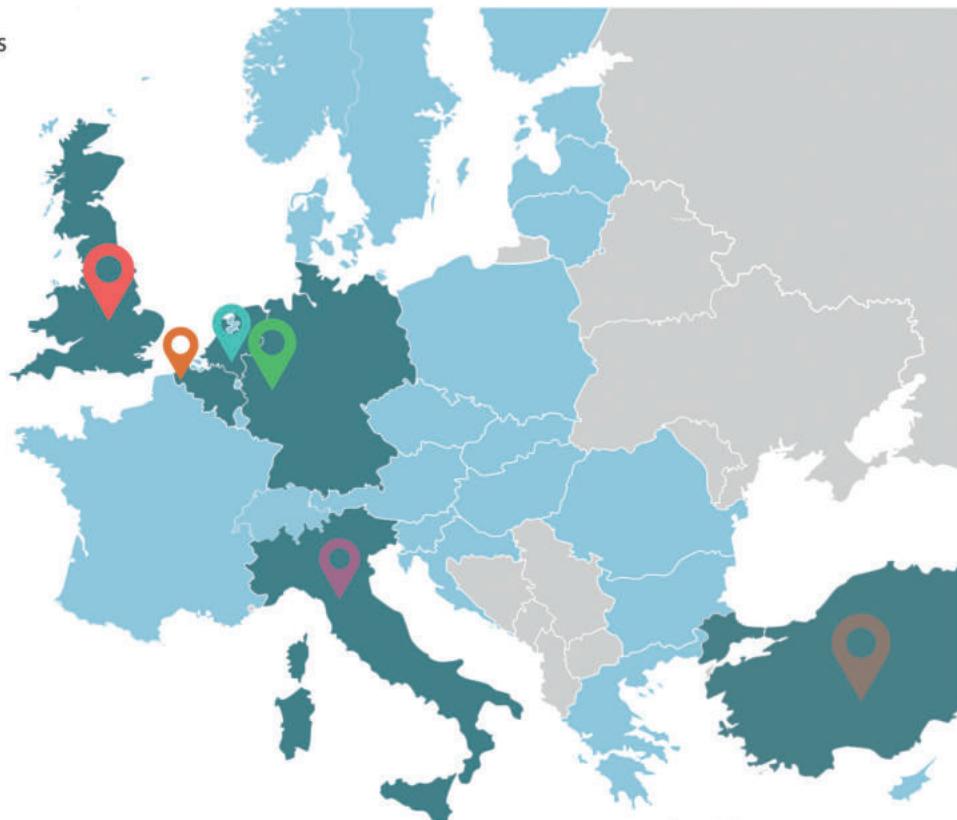
| Model RL-KLT VDA CERTIFIED | RL-KLT 3147 VDA | RL-KLT 4147 VDA | RL-KLT 4213 VDA | RL-KLT 4280 VDA | RL-KLT 6147 VDA | RL-KLT 6213 VDA | RL-KLT 6280 VDA |
|---------------------------------------|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Outside Dimensions (L x W x H) | 300 x 200 x 147 | 400 x 300 x 147 | 400 x 300 x 213 | 400 x 300 x 280 | 600 x 400 x 147 | 600 x 400 x 213 | 600 x 400 x 280 |
| Inside Dimensions (L x W) | 243 x 162 | 345 x 260 | 345 x 260 | 345 x 260 | 544 x 359 | 544 x 359 | 544 x 359 |
| Internal Height | 129,5 | 129,5 | 198 | 260 | 129,5 | 198 | 262 |
| Internal Volume to fill line (liters) | 5,1 | 11,6 | 17,8 | 24,1 | 25,3 | 38,7 | 51,2 |
| Weight (kg) | 0,57 | 1,08 | 1,42 | 1,7 | 1,82 | 2,27 | 2,67 |
| ESD Material Available | yes | yes | yes | yes | yes | yes | yes |
| Material | PP | PP | PP | PP | PP | PP | PP |
| Pieces/Pallet | 80 x 120 Export Pallet | 360 | 180 | 120 | 90 | 60 | 45 |
| | 100 x 120 Export Pallet | 320 | 160 | 104 | 80 | 52 | 40 |
| 3m Mega Trailer (120x80 pallet loads) | 10,560 | 5,280 | 3,432 | 2,640 | 2,640 | 1,716 | 1,320 |

| Model KLT LIDS VDA CERTIFIED | D-32 LID | D-43 LID | D-35 LID | D-45 LID | D-65 LID | A1208-1 LID | A1210 LID |
|---------------------------------------|-------------------------|------------------|----------------|------------------|------------------|-----------------|------------------|
| Outside Dimensions (L x W x H) | 267 x 150 x 8 | 365 x 267,2 x 25 | 268 x 170 x 17 | 365 x 267 x 13,5 | 562,5 x 365 x 16 | 1210 x 810 x 84 | 1204 x 1006 x 67 |
| Weight (kg) | 0,09 | 0,23 | 0,09 | 0,27 | 0,67 | 5,15 | 9,35 |
| ESD Material Available | yes | yes | yes | yes | yes | yes | yes |
| Material | PP | PP | PP | PP | PP | PP | PP |
| Pieces/Pallet | 80 x 120 Export Pallet | 1000 | 500 | 100 | 500 | 250 | 40 |
| | 100 x 120 Export Pallet | 800 | 400 | 800 | 400 | 200 | 40 |
| 3m Mega Trailer (120x80 pallet loads) | 52,800 | 26,400 | 52,800 | 26,400 | 13,200 | 1,320 | 1,040 |

| Model C-KLT VDA CERTIFIED | C-KLT 3214VDA | C-KLT 4314VDA | |
|---------------------------------------|-------------------------|-----------------|-----|
| Outside Dimensions (L x W x H) | 300 x 200 x 147 | 400 x 300 x 147 | |
| Inside Dimensions (L x W) | 263 x 138 | 338 x 250 | |
| Internal Height | 118,5 | 118,5 | |
| Internal Volume to fill line (liters) | 4,3 | 10 | |
| Weight (kg) | 0,72 | 1,63 | |
| ESD Material Available | yes | yes | |
| Material | PP | PP | |
| Pieces/Pallet | 80 x 120 Export Pallet | 360 | 180 |
| | 100 x 120 Export Pallet | 320 | 160 |
| 3m Mega Trailer (120x80 pallet loads) | 10,560 | 5,280 | |

ORBIS EUROPE LOCATIONS

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-  Ieper, Belgium (Manufacturing)
Structural Foam Molding
Products: Pallets, BulkPak
-  Turkey (Manufacturing)
Structural Foam Molding
Products: Pallets, KLT, FLC
-  Cape Town, South Africa
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