



# CAKEBOXX TECHNOLOGIES

SHIPPING CONTAINERS  
WITH DECK AND LID DESIGN



SAFE, SECURE AND EFFICIENT CARGO SOLUTIONS

# CAKEBOXX® CONTAINERS

## WHAT'S IN THE BOXX?

### *Deck and Lid Design*

*The key feature of every CakeBoxx container is the unique two-piece deck and lid construction. In addition to making cargo loading and unloading a simpler and safer task, the deck and lid design seals and secures the container contents entirely, making unauthorized access and theft virtually impossible.*



### **TrusDek®**

All CakeBoxx containers, with their deck and lid design are built with the extra-thick TrusDek. This specially engineered deck is designed to carry heavy, top and side-loaded machinery, break bulk and project cargo shipments that require extreme strength, hardware mounts or under-deck additions. All CakeBoxx decks can be handled fully loaded as a pallet without the lid installed.

### **Vertical Locking System™**

The simple and efficient Vertical Locking System is another feature built into every CakeBoxx product. This easy to use twist lock feature secures and releases the lid and deck, and is a highly reliable, super strong advantage.

### **Tailored Perimeter Tie Down System (PTS™)**

With up to 30 flush-mounted, heavy-duty D-Rings, CakeBoxx's tailored PTS provides a wide array of lashing options to address any cargo. This allows uniquely shaped or configured products to be safely secured, greatly reducing the chance of damage. The thickness of the TrusDek allows the floor to be customized with countersunk, threaded attachment points for a variety of anchor fittings or through-bolts allowing cargos to be secured in ways that ordinary containers cannot.





# CAKEBOXX CARGOS

## WHAT SHIPS IN A CAKEBOXX?

*The short answer is that anything you would ship in a standard container will also ship in a CakeBoxx container. The difference comes with the massive time, cost and efficiency savings and advantages the two-piece CakeBoxx containers have over their standard counterparts.*

CakeBoxx is perfect for loading high density, awkward shaped goods and cargos. These are easily top and side loaded with CakeBoxx containers - even cargo which can only otherwise be shipped as break bulk.

- ✓ **High-value and high-consequence goods** with the greatest potential for theft. These include pharmaceuticals, tobacco products, alcohol, and electronics.
- ✓ **High-density, heavy cargos** that do not need the full vertical capacity of standard containers such as I-beams, steel, scrap and heavy ores.
- ✓ **Long cargos** that cannot be easily loaded into a standard container with doors. This would include pipe, timber and building materials.
- ✓ **Industrial equipment, machinery, heavy wheeled or tracked equipment and assemblies** that are typically shipped in flat racks or require disassembly prior to being packed in a standard container.
- ✓ **Material typically shipped in drums or on pallets** that due to their nature, cannot be stacked. This would include chemicals and petroleum products.
- ✓ **Military and defense materials** such as ammunition and supply equipment.
- ✓ **Closed-loop supply chains** where the shipper controls the movement of goods in both directions. These can be piece-parts to finish assembly, farm to processing or distribution plants and other scenarios.



# TrusDek®

EXTRA THICK DECK - HIGH STRENGTH AND SECURITY FOR HEAVY CARGO

*The TrusDek® Series is the latest CakeBoxx deck technology and comes as standard on all container types.*

TrusDek is designed to carry heavy, top and side-loaded machinery, breakbulk and project cargo shipments that require more deck strength and thickness for the mounting of hardware, plumbing or electrical connections below the surface of the deck. Built to last, TrusDek offers the strength and loading ease of the flat rack or open top design combined with the security of a completely enclosed and secure container.



### **Easy to Handle**

Like all CakeBoxx containers, TrusDek has a bottom deck and one-piece lid that securely locks to it, keeping cargo safe and secure during transport and storage. It conveniently loads like a flat-rack or open-top container and is handled by all standard container handling equipment and a wide variety of commercial lifting equipment.

The TrusDek's thicker deck also allows it to be used as a pallet after the lid is removed. The sturdy TrusDek deck can be used as a movable pallet, an equipment foundation or other useful applications while still supporting the full rated payload of the container.

### **Best of both worlds**

CakeBoxx containers with TrusDek design offer the loading advantages of a flat rack with the protection and security of enclosed container.

### **Secure and reliable**

The TrusDek series containers use the new Vertical Locking System (VLS) comprised of super-tough, easily-operated twist locks. This makes the lid extremely easy to place and remove while providing a very high level of reliability and maintainability.

### **More cargo space**

The versatile VLS enables the TrusDek to be configured in two basic variations:

- **Flat, open deck** – provides maximum footprint
- **Recessed deck** – offers more vertical space while providing a secure fit for rolling stock or heavy equipment.

### **Pick your size**

The TrusDek series ships with all CakeBoxx variants. All lengths, widths and heights are available from 20' half-height to 53' high cube.



## TRUSDEK OPTIONS

### **Custom flooring materials**

*TrusDek is available with a variety of customer specified flooring materials including steel, environmentally friendly FRP or plywood.*

### **Versatile Perimeter Tie Down System (PTS™)**

*Customer-defined lashing points with up to 30 flush-mounted, heavy-duty D-Rings provide a wide array of cargo lashing options. The thickness of the TrusDek deck allows the floor to be customized with countersunk, threaded attachment points for a variety of anchor fittings or through-bolts, allowing options to secure cargos in ways that ordinary, doored containers cannot.*

### **Corner guides**

*Makes raising or lowering the lid easier.*

### **Fork lift tubes or rings**

*Can be added to the lid for special cargo handling requirements.*

### **Doors or access points**

*These are available on either or both ends and sides and are built to customer specifications.*

### **Insulation**

*Can include state of the art vacuum panels to keep your temperature sensitive cargo conditioned from extreme temperature swings.*

# CUSTOM SOLUTIONS

## CAKEBOXX BUILT TO SPEC

The unique CakeBoxx deck and lid design makes it highly customizable. A wide range of options are available on each CakeBoxx model. In addition, CakeBoxx Technologies can work with you to design and build entirely bespoke custom solutions; CakeBoxx containers built from scratch to meet your unique requirements.



### **Custom Dimensions**

CakeBoxx containers are available to order as standard in a number of length, width and height options. For cases where this does not meet your transport and storage needs, we can work with you to build an entirely bespoke CakeBoxx solution.

### **Insulation Packages**

A variety of high performance insulation options are available.

### **Corner Guides**

In order to eliminate potential for lid contact with cargo during loading and unloading operations, CakeBoxx products are available with corner guides to aid the securing of the container and prevent cargo damage.

### **Lifting Tubes or Rings**

For special cargo handling requirements, lifting tubes or rings can be added to the lid.

### **Doors and Viewing Ports**

All CakeBoxx models are available with access and cargo doors or removable panels designed to customer specifications.

### **Custom Flooring**

A variety of customer-specified flooring materials to precisely fit specific requirements for the deck are available. These include steel, FSC certified bamboo or OSB plywood, hardwood, or fiber reinforced plastic (FRP). CakeBoxx decks are available with flat or recessed floors.

### **Environmentally Friendly Paint**

Paint options are available on request. This includes environmentally friendly water based paints.

### **LED Lighting**

Where light in the CakeBoxx lid is a concern, internal LED lighting can be fitted.



# CAKEBOXX 20'

## INTEGRATING SEAMLESSLY

*Dimensionally identical to a standard ISO container, the CakeBoxx 20' also has the same load capacities; making it the perfect choice for optimizing regular supply chain operations safely and efficiently.*

The unique CakeBoxx deck and lid design seals and secures the container contents entirely, making unauthorized access and theft virtually impossible.

This CakeBoxx integrates seamlessly into all intermodal processes, including stacking, storage, terminal transfers and ship, rail and truck haulage. CakeBoxx 20' comes as standard in high cube 9'6" height. Other heights available on request.



*CakeBoxx 20', flat floor model*



### SPECIFICATIONS

**20' x 8' x 9'6" CAKEBOXX**  
*High cube, flat floor model*

#### *External Dimensions*

<b>Length</b>	<b>Width</b>	<b>Height</b>
6058 mm	2438 mm	2896 mm
19' 10.5"	8'	9' 6"

#### *Internal Dimensions*

<b>Length</b>	<b>Width</b>	<b>Height</b>
5770 mm	2152 mm	2369 mm
18' 11.2"	7' 1"	7' 9.2"

#### *Load and Volume Capacity*

<b>Max Gross Weight</b>	<b>Tare Weight</b>	<b>Max Payload</b>
30480 kgs	3450 kgs	27030 kgs
67200 lbs	7610 lbs	59590 lbs

<b>Internal Cubic Capacity</b>	<b>Stacking Load Test</b>
29.4 m <sup>3</sup>	86400 kgs
1038 ft <sup>3</sup>	190480 lbs

### PRODUCT FEATURES

- ✓ *Unique deck and lid design*
- ✓ *20' length*
- ✓ *9'6" height as standard. Other heights available on request*
- ✓ *Perimeter Tie Down System (PTS) - customizable for securing even the most awkward shaped goods*
- ✓ *Simplified Vertical Locking System for reliability, ease of use and maintainability*
- ✓ *Insulated or non insulated*
- ✓ *Available with or without doors and access panels*
- ✓ *Steel or plywood floor*
- ✓ *Flat or recessed floor*
- ✓ *Corner guides, fork pockets in lid and other options available.*

*\*See separate Custom Solutions page for further options*

*\*\* Further specifications available on request.*

# CAKEBOXX 40'

## INTEGRATING SEAMLESSLY

*Dimensionally identical to a standard ISO container, the CakeBoxx 40' also has the same load capacities; making it the perfect choice for optimizing regular supply chain operations safely and efficiently.*

The unique CakeBoxx deck and lid design seals and secures the container contents entirely, making unauthorized access and theft virtually impossible.

This CakeBoxx integrates seamlessly into all intermodal processes, including stacking, storage, terminal transfers and ship, rail and truck haulage. CakeBoxx 40' comes as standard in high cube 9'6" height. Other heights available on request.



*CakeBoxx 40', flat floor model*



### SPECIFICATIONS

**40' x 8' x 9'6" CAKEBOXX**  
*High cube, flat floor model*

#### *External Dimensions*

Length	Width	Height
12192 mm	2438 mm	2896 mm
40'	8'	9' 6"

#### *Internal Dimensions*

Length	Width	Height
11984 mm	2232 mm	2210 mm
39' 3.81"	7' 3.87"	7' 3.01"

#### *Load and Volume Capacity*

Max Gross Weight	Tare Weight	Max Payload
32000 kgs	7400 kgs	24600 kgs
70550 lbs	16310 lbs	54240 lbs

Internal Cubic Capacity	Stacking Load Test
59.1 m <sup>3</sup>	86400 kgs
2087 ft <sup>3</sup>	190480 lbs

Floor Strength	Lid Weight
5460 kgs	2400 kgs
12040 lbs	5290 lbs

### PRODUCT FEATURES

- ✓ *Unique deck and lid design*
- ✓ *40' length*
- ✓ *9'6" height as standard. Other heights available on request*
- ✓ *Perimeter Tie Down System (PTS) - customizable for securing even the most awkward shaped goods*
- ✓ *Simplified Vertical Locking System for reliability, ease of use and maintainability*
- ✓ *Insulated or non insulated*
- ✓ *Available with or without doors and access panels*
- ✓ *Steel or plywood floor*
- ✓ *Flat or recessed floor*
- ✓ *Corner guides, fork pockets in lid and other options available.*

*\*See separate Custom Solutions page for further options*

*\*\* Further specifications available on request.*

# SHORTBOXX

## THE HALF HEIGHT CAKEBOXX

At half the height of a standard high cube container, the low profile ShortBoxx at 4'9" is ideal for high gross weight, low volume cargos such as steel, copper or aluminum ingots or long, unwieldy cargos which cannot be end-loaded in standard doored containers.

ShortBoxx is the perfect choice for liquid or granular cargos and chemicals shipped in tanks, drums, barrels or Intermediate Bulk Containers (IBCs) that need to be carefully secured and cannot be stacked two-high. These cargos can be safely secure and snug between the top of the lid and floor preventing them from any possible toppling or shifting in transit.

Two ShortBoxx containers can also be safely and efficiently stacked; maximizing product haulage potential but with the same footprint as a standard container. ShortBoxx comes as standard in 20' length. Other lengths available on request.



### SPECIFICATIONS

#### 20' x 8' x 4'9" SHORTBOXX

##### External Dimensions

Length	Width	Height
6058 mm	2438 mm	1450 mm
19' 10.5"	8'	4' 9"

##### Internal Dimensions

Length	Width	Height
5770 mm	2152 mm	1022 mm
18' 11.2"	7' 1"	3' 4.2"

##### Load and Volume Capacity

Max Gross Weight	Tare Weight	Max Payload
30480 kgs	2800 kgs	27680 kgs
67200 lbs	6180 lbs	61020 lbs

Internal Cubic Capacity	Stacking Load Test
12.6 m <sup>3</sup>	86400 kgs
444 ft <sup>3</sup>	190480 lbs

### PRODUCT FEATURES

- ✓ Unique deck and lid design
- ✓ Half the height of a hi-cube container
- ✓ 20' length as standard, other lengths available on request
- ✓ Perimeter Tie Down System (PTS) - customizable for securing even the most awkward shaped goods
- ✓ Simplified Vertical Locking System for reliability, ease of use and maintainability
- ✓ Insulated or non insulated
- ✓ Steel or plywood floor
- ✓ Flat or recessed floor
- ✓ Corner guides, fork pockets in lid and other options available.

\*See separate **Custom Solutions** page for further options  
 \*\* Further specifications available on request.



# BREAKBULKBOXX™

## NEW POSSIBILITIES FOR CONTAINERIZED CARGO

The high costs and risks involved with shipping break bulk cargo are driving manufacturers around the world to increasingly redesign their products and packaging to take advantage of containerized intermodal transportation. Still, many products cannot be loaded into standard containers due to their size, shape and weight.

CakeBoxx Technologies' two-piece containers allow containerized transport for many of these types of products with simple top and side loading and discharging operations. The BreakBulkBoxx line of CakeBoxx containers have been designed specifically to help break bulk shippers take advantage of the huge cost and operational benefits the ever expanding network of containerized transportation hubs have to offer.



## ADVANTAGES

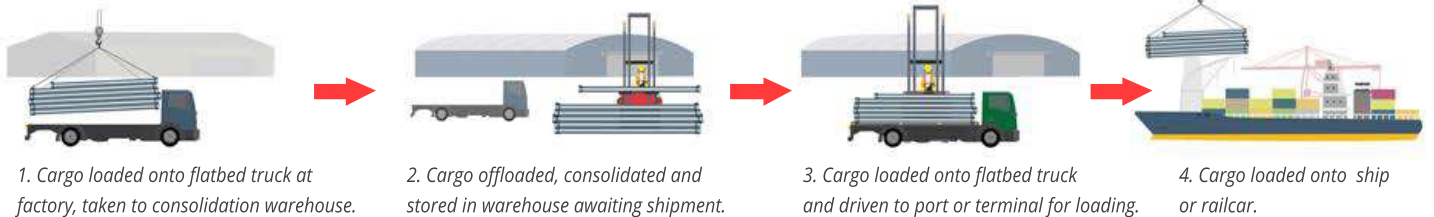
### WHY SWAP BREAK BULK FOR A CAKEBOXX CONTAINER?

- **Reduced cost** - Container shipments cost less than break bulk per ton.
- **Increased efficiency** - Top and side loading a container is faster than pierside stevedoring.
- **More transport options, less waiting** - Container ships call more frequently than dry cargo ships.
- **Fewer restrictions** - Eliminates the need to accumulate cargo and dry cargo ship minimums.
- **Safer and more secure** - Containerized goods have fewer handling accidents, damage and thefts.
- **Range of sizes** - CakeBoxx two-piece containers are available in full range of sizes from 20' to 53'.

### CANDIDATE CARGOS:

- ✓ Machine assemblies
- ✓ Structural steel, pipe, re-bar
- ✓ Baled scrap
- ✓ Wheeled and tracked vehicles
- ✓ Coil, plate, sheet, ingots.

### CURRENT HANDLING CYCLE:



### BREAKBULKBOXX™ HANDLING CYCLE



# BREAKBULKBOXX™

## THE 45' BREAK BULK SOLUTION

The BreakBulkBoxx 45' fills the long-awaited gap between 40' and 53' containers. As part of CakeBoxx Technologies' BreakBulkBoxx range, it has been designed specifically to save costs for break bulk and project cargo shippers by providing a means to transport loads on container ships versus the slower, more costly break bulk and multi-purpose vessels.

The circular lightening holes in its deck (the lower portion of the two-piece container), are incorporated to reduce weight. The thoughtful design also includes dual gooseneck tunnels for versatile transportability and a new 'end locking system' for additional security and strength to complement its characteristic Vertical Locking System at the 40' intermediate position.



BreakBulkBoxx 45', flat floor model



### SPECIFICATIONS

45' x 8' x 9'6" BREAKBULKBOXX  
High cube, flat floor model

#### External Dimensions

Length	Width	Height
13716 mm	2438 mm	2896 mm
45'	8'	9' 6"

#### Internal Dimensions

Length	Width	Height
13508 mm	1964 mm	2402 mm
44' 3.8"	6' 5"	7' 10"

#### Load and Volume Capacity

Max Gross Weight	Tare Weight	Max Payload
32000 kgs	8200 kgs	23800 kgs
70550 lbs	18080 lbs	52470 lbs

Internal Cubic Capacity	Stacking Load Test
63.7 m <sup>3</sup>	57600 kgs
2249 ft <sup>3</sup>	126980 lbs

#### Floor Strength

5460 kgs
12040 lbs

### PRODUCT FEATURES

- ✓ Unique deck and lid design
- ✓ 45' length
- ✓ 9'6" height
- ✓ Dual gooseneck tunnels
- ✓ Perimeter Tie Down System (PTS) - customizable for securing even the most awkward shaped goods
- ✓ Simplified Vertical Locking System for reliability, ease of use and maintainability
- ✓ OSB plywood floor, other options available including FRP
- ✓ Corner guides, fork pockets in lid and other options available.

\* Further specifications available on request.



# BREAKBULKBOXX™

## THE 53' BREAK BULK SOLUTION

As the largest product in the CakeBoxx range, the BreakBulkBoxx 53' is perfect for transporting goods otherwise only movable as break bulk. Its WTP configuration is tailored to US intermodal transport handling equipment; making it perfect for moving cargos across road and rail.

The circular lightening holes in its deck (the lower portion of the two-piece container), are incorporated to reduce weight. The thoughtful design also includes dual gooseneck tunnels for versatile transportability and a new 'end locking system' for additional security and strength to complement its characteristic Vertical Locking System at the 40' intermediate position.



BreakBulkBoxx 53', flat floor model



### SPECIFICATIONS

53' x 8'6" x 9'6" BREAKBULKBOXX  
High cube, flat floor model

#### External Dimensions

Length	Width	Height
16154 mm	2600 mm	2896 mm
53'	8' 6"	9' 6"

#### Internal Dimensions

Length	Width	Height
15946 mm	2145 mm	2402 mm
52' 3.7"	7'	7' 10"

#### Load and Volume Capacity

Max Gross Weight	Tare Weight	Max Payload
32000 kgs	9800 kgs	22200 kgs
70550 lbs	21610 lbs	48940 lbs

Internal Cubic Capacity	Stacking Load Test
82.1 m <sup>3</sup>	57600 kgs
2899 ft <sup>3</sup>	126980 lbs

### PRODUCT FEATURES

- ✓ Unique deck and lid design
- ✓ 53' length
- ✓ 9'6" height
- ✓ Dual gooseneck tunnels
- ✓ Perimeter Tie Down System (PTS) - customizable for securing even the most awkward shaped goods
- ✓ Simplified Vertical Locking System for reliability, ease of use and maintainability
- ✓ OSB plywood floor, other options available including FRP
- ✓ Corner guides, fork pockets in lid and other options available.

\* Further specifications available on request.

# CHASSISBOXX™

## THE FLATBED CAKEBOX

The CakeBoxx ChassisBoxx transforms a container chassis to a fully enclosed flatbed trailer for over the road use. When the deck and lid of the ChassisBoxx are installed on a standard container chassis it combines the practical elements of a flatbed trailer with the protective elements of a fully enclosed shipping container.

The deck is simply installed by fitting it to the existing twistlocks on any standard container chassis. Side or top load the cargo and secure it using the Perimeter Tie-down System, then install and lock down the ChassisBoxx lid. Cargo is protected from the elements, theft, vandalism, and general damage caused by uncovered transport – exactly in the same way as a typical fully enclosed shipping container or truck trailer would do.

ChassisBoxx adds value and productivity to existing and under-utilized container chassis and add flexibility to your ground transport needs.



### SPECIFICATIONS

40' x 8'6" x 300mm CHASSISBOXX

#### External Dimensions

Length	Width	Height
12192 mm	2591 mm	300 mm
40'	8' 6"	0' 11.81"

#### Load and Volume Capacity

##### Deck Tare Weight

2760 kgs  
6080 lbs

### PRODUCT FEATURES

- ✓ Converts container chassis to flexible use flatbed trailer
- ✓ Length, height and width built to spec
- ✓ Simple twistlock securing system
- ✓ User defined flooring and Perimeter Tie-Down System (PTS) configuration
- ✓ LTL options using multiple lid configurations
- ✓ Customizable lid options - doors, insulation, viewing ports
- ✓ Available as deck only, or complete deck and lid assembly.

\*See separate **Custom Solutions** page for further options  
\*\* Further specifications available on request.



# CAKEBOXX FLAT RACK 53'

## FLEXIBLE FREIGHT TRANSPORTATION

The CakeBoxx Flat Rack 53' is a collapsible flat-deck solution which offers a great deal of flexibility for intermodal transportation. The Flat Rack 53' can be double stacked and is capable of carrying extremely heavy payloads (up to 57,760lbs).

Like CakeBoxx containers with their 'deck and lid' configuration, the Flat Rack 53' is built with extremely strong TrusDek® technology and is easy to load with access from the top and all sides. Heavy cargoes of any shape can be secured using CakeBoxx Technologies' Perimeter Tie Down System, and the Flat Rack 53' offers the additional advantage of having flat-folding intermediate posts.

Collapsed Flat Rack decks can be stacked four-high to accommodate the same footprint as a standard high cube intermodal container. This flexibility affords the shipper the ability to reposition with great ease, speed and a massive cost saving vs traditional containerization. The CakeBoxx Flat Rack 53' is tailored to US intermodal transport handling equipment; making it perfect for moving cargos across road and rail.



### HANDLING CYCLE:



1. CakeBoxx Flat Rack secured onto chassis and taken to shippers yard. Cargo loaded onto the Flat Rack.

2. After road transportation to rail terminal, the loaded Flat Rack transferred onto railcar.

3. The CakeBoxx Flat Rack is transported via rail, where it can be double stacked for cost efficiency.

4. Cargo is transferred from rail to chassis for delivery to customer.

### SPECIFICATIONS

CakeBoxx Flat Rack 53'

53' x 8'6" x 457mm (40' post folded)

53' x 8'6" x 9'6" (40' post erected)

#### External Dimensions

Length	Width	Height (40' post folded)	Height (40' post erected)
16154 mm	2591 mm	457 mm	2896 mm
53'	8' 6"	1' 5"	9' 6"

#### Load and Volume Capacity

Max Gross Weight	Tare Weight	Max Payload
32000 kgs	8000 kgs	26254 kgs
70550 lbs	17640 lbs	57760 lbs

Stacking Test Load (stacking at 40' position, 40' post folded)	Stacking Test Load (stacking at 53' position, 40' post folded)
41150 kgs	86400 kgs
90720 lbs	190480 lbs

### PRODUCT FEATURES

- ✓ 'Flat rack' solution with CakeBoxx build quality
- ✓ 53' length
- ✓ 8'6" width
- ✓ 9'6" height
- ✓ Loading from top and all sides
- ✓ Can be double stacked when loaded or quadruple stacked with posts folded for back haul
- ✓ Perimeter Tie Down System (PTS) - customizable for securing even the most awkward shaped goods
- ✓ Steel, FRP, hardwood and OSB plywood flooring options available.

\* Further specifications available on request.

# CAKEBOXX FOR VEHICLES

## THE PERFECT FIT

Storing/transporting vehicles in standard shipping containers has always been an issue, largely due to the limited space for loading and unloading. These issues are now a thing of the past, as the unique, secure and customizable design of CakeBoxx containers make them ideal for your highly valuable and mission critical vehicles. Loading and unloading is simple: wheeled vehicles can be easily driven onto the deck and secured using the CakeBoxx tailored Perimeter Tie Down System (PTS).

Complete 360-degree access to fully customizable tie-down points safely lock the vehicle to the deck, ensuring reliable delivery of your vehicle in all types of intermodal movement while providing the greatest level of physical security and safety for the cargo and cargo handlers.



### BENEFITS FOR VEHICLE STORAGE AND TRANSPORT

#### **Flat or Recessed floor**

Flat floor allowing maximum width or recessed floor for extra headroom

#### **Perimeter Tie-Down System (PTS)**

Featured on all models, this unique feature provides maximum security, protecting your vehicle from damage in transit

#### **Forklift Tubes in the Lid**

These enable easy removal of the lid

#### **Removable Corner Guides**

To assist crane or forklift operators during lid removal or installation

#### **Insulation Options**

To prevent extreme temperature excursion and provide the highest degree of environmental control

#### **Doors or NO Doors**

For maximum security of your vehicles with access as required

#### **Weather Seal**

The CakeBoxx lid has a rubberized seal along the bottom edge to ensure protection against the elements during shipment or storage.

