

# Automotive & Industrial Family of Products User Guide

Follow the instructions in this user guide to assure your safety and the safety of others during the transport, stacking, and handling of IPL Macro products.



## **WARNING:**

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Falling Bins and other parts can cause serious injury

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If bins are not properly secured for transport, they could fall in teh roadway and endanger other.

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If bins are damaged or are not properly stacked, they could fall on workers or other people.

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# Bin Transportation

# Storage

	US Domestic 53' (Bins per stack)		EU Mega Trailer (Bins Per Stack)		Warehouse/Storage (Bins per stack)	
	Open	Folded	Open	Folded	Open	Folded
EuroBin Family: LxW 1200x1000 Weight Capacity: 900kg (2000lbs)						
EuroBin 597	4	9	4	10	6	20
EuroBin 860	3	9	3	10	6	20
EuroBin 980	2	9	3	10	6	20
EuroBin "DS": 120mm Dunnage Collar Weight Capacity: 900kg (2000lbs)						
EuroBin DS717	3	6	4	7	6	14
EuroBin DS980	3	6	3	7	6	14
EuroBin DS1100	3	6	3	7	6	14
IsoBin Family: LxW 1190x1140 (47x44") Weight Capacity: 900kg (2000lbs)						
IsoBin 25	4	8	4	9	6	16
IsoBin 30	3	8	4	9	6	16
IsoBin 33	3	8	3	9	6	16
EuroBin "EL": Extended Length: Options- 1300, 1400, 1500, 1600, 1700, 2000 Weight Capacity: 600kg (1300lbs)						
EuroBin EL 597mm Height	4	9	4	10	5	20
EuroBin EL 860mm Height	3	9	3	10	5	20
EuroBin EL 980mm Height	2	9	3	10	5	20

## Safe Handling Practices Storage

**Bins must never be stacked on beam racking or unsupported racking**  
**Bins can be stacked on fully supported deck racking**



**Bins safely stacked on level floor**



**Bins safely stacked on fully supported deck racking**  
**Bins must NEVER be beam or edge racked**

## Safe Handling Practices

### Bin Transportation

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Bins must be secured to the vehicle used for transport in a manner that eliminates bin movement while the vehicle is moving, even if only a single bin is involved. All bins should be forced together without space between them to form a unitized load. The U.S. Department of Transportation (DOT) does not currently have a commodity specific cargo securement technique for the transport of bins. To understand the most effective cargo securement techniques for the interstate transport of MacroBins, the DOT – Federal Motor Carrier Safety Administration (FMCSA) has the Federal Motor Carrier Safety Regulations (FMCSRs) available on the FMCSA website at [www.fmcsa.dot.gov](http://www.fmcsa.dot.gov). The general cargo securement requirements are listed under 49 CFR 393.100 – 393.114.

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For intrastate travel, tie-down methods must comply with local regulations regarding bin hauling. It is the responsibility of the user to ensure they are in compliance with these regulations. Internet links to truck-related regulation web sites for all 50 states are listed in the index at the end of this User Guide. This information will be updated periodically at [www.macroplastics.com](http://www.macroplastics.com). The U.S. Department of Transportation – Federal Motor Carrier Safety Administration (FMCSA) has the Federal Motor Carrier Safety Requirements available on the FMCSA website at [www.fmcsa.dot.gov](http://www.fmcsa.dot.gov). The general cargo securement requirements are listed under 49 CFR 393.100 – 393.114. Some of the more widespread bin transportation methods are outlined in this section.

## Safe Handling Practices

### Pick-up Truck and Small Trucks with Flatbeds

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When transporting empty or full MacroBins in a pick-up truck or small flatbed, the bin or bins must always be secured and covered to prevent loss of the bin or its contents. On flatbeds, bins must be strapped down as on larger flatbed trailers. After securing a bin, it should be checked to ensure it cannot move. In addition to securing the bin, it is also imperative that the tailgate be closed.

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If the truck does not contain hooks or cleats to secure a bin, or there is no tailgate in place, bins must not be transported in this truck. It is also essential that nothing is placed in the space between the bin and the tailgate. When transporting bins of differing heights, the taller bin should be secured against the cab, out of the wind stream, and the shorter bin should be placed toward the rear of the truck bed. The secured bin should be checked periodically to ensure that it continues to be secure for transport.



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Secured and Covered Bin in a Pick-up Truck

# Safe Handling Practices

## Temperature Ranges

MacroBins can be used over a wide range of temperature environments and filled with contents that fall within these ranges. MacroBins can be used within the following temperature ranges:

	Low	High
HDPE	0°F -17 °C	140°F 60 °C
PP	0°F -17 °C	180°F 82 °C

## Maximum Capacity and Stack Weight Limits

MacroBins have been designed to perform within specific maximum load capacities and stacking tolerances. For capacity and stack weight limits for MacroBins, please refer to IPL Macro product specification sheets.

## Fire Commodity Classification Ratings

For insurance purposes, call the Macro Plastics Technical Services Department for questions regarding Fire Commodity Classification Ratings. All MacroBins have a Commodity Classification Rating of Class III or better.



# Safe Handling Practices

## Cleaning

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HDPE MacroBins can be cleaned using high-pressure washers and chlorine sanitizers. No detergents of any kind should be used to clean HDPE bins as stress cracking may result from their use. PP MacroBins can be cleaned with high-pressure washers as well as detergents. Steam cleaners above 220 degrees should never be used to clean MacroBins.

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## Recycling

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If bins are damaged beyond repair, they can be recycled. Visit [www.macroplastics.com/services/recycling/](http://www.macroplastics.com/services/recycling/) to get information on how to recycle bins.

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## Index of Safety Information Sources

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Department of Transportation – Federal Motor Carrier Safety Administration: [www.fmcsa.dot.gov](http://www.fmcsa.dot.gov)

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Department of Transportation – National Transportation Library: [http://ntl.bts.gov/ref/biblio/trucking/truckingus\\_periodicals.html](http://ntl.bts.gov/ref/biblio/trucking/truckingus_periodicals.html)

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Canadian Council of Motor Transport Administrators: [www.ccmta.ca](http://www.ccmta.ca)

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**\*\*Please refer to state/province motor carrier regulations for any additional load securement**