



MONOFLO FOR MANUFACTURING

**More durable.
Longer product life.
Lower total cost.**

miworldwide.com

Manufactured in America | 540-771-3077

MONOFLO
INTERNATIONAL



Our unique approach to business is why we're the leader.

Monoflo has combined design capabilities, manufacturing technologies and industry experience to deliver a line of containers and pallets for durable manufacturing that is second to none.

Defining what comes next.

Monoflo is always looking to improve and we look to the marketplace for guidance. If it matters to you then it matters to us. We understand manufacturers require optimum performance and that grueling demands are placed on our products every day. Balancing industry demands with your bottom line begins with our unique approach and innovative manufacturing technologies.

We offer the most efficient, highest performing products for your business. Each of our customers works with an assigned, manufacturing industry expert so everyone receives the focused attention needed to enhance the development and implementation of their reusable packaging strategies.

We stay one step ahead by always providing...

- 1. Responsive service**
- 2. Superior engineering**
- 3. Quality & efficiency**
- 4. Customization**
- 5. Recycling & sustainability**



We'll grow with you.

Durable goods manufacturers look to Monoflo for bulk containers, pallets and a wide range of tote options. For over 40 years, our breadth of high quality products have outperformed competitive products—test after test, product after product. Ongoing product development yields innovations like higher strength-to-weight ratios and longer useful product lifecycles. And, custom containers are an integral part of our plan—we aim to build relationships that last. So, think of Monoflo as a partner for growth. We'll be by your side for the long haul.



Bulk Containers

- High pressure injection molded
- Unique and proven welded base technology improves durability
- Best in class strength-to-weight ratio
- All-plastic ergonomic latches and hinges won't rust and are easy to repair
- Large labeling areas on all four sides
- Low total-cost-of-ownership



Foldable Containers

- Feature-rich options like access doors
- Freight savings for return freight
- Customizable for many applications



Stackable Pallets

- High pressure injection molded
- Welded construction for added strength and reduced weight
- AIAG compatible footprints
- Available with seat belt and top cap options



Straightwall Containers

- AIAG footprint containers
- Available in 1215, 2415, 2422 footprints
- Ergonomic handles
- Straightwall design ideal for custom dunnage applications

Industry-Leading Innovation: Bulk Containers

Monoflo's bulk containers are built to perform. With hundreds of thousands of containers in service, the Monoflo bulk container is the proven choice.

Our containers are engineered for strength, 100% recyclable, repairable and competitively priced. No other bulk container compares.

Proven Performance: Our unique combination of the latest high pressure injection molding technology and our tested and proven welding process yield the best strength-to-weight ratios available.

Sustainable: Our bulk containers are 100% recyclable. Additionally, with no fiberglass or metal reinforcements, our bulk containers weigh less than others which means fewer raw materials are used.



BC 4845-34
with open access door

Durable: Monoflo's unique "I-Beam" construction is a two-piece welded design that makes the strongest, most durable base in the industry.

Repairable: If a break occurs, every piece of Monoflo's bulk containers is repairable in the field in a matter of minutes.



Cross section of our I-Beam welded technology which increases base strength by up to 40%

Two footprints. Varying heights. Ready to work.

Bulk Containers

- Best in class strength-to-weight ratios
- High pressure injection molded
- Unique, welded base provides structural integrity that outperforms the competition... Test after test
- All plastic, ergonomic latches
- Strong, durable plastic hinges allow the access door to drop flush against the container
- Smooth, reinforced fork openings for easy access
- Highly visible, flat labeling area on all four sides
- All-plastic hinge line makes sidewall replacement and repair easy



BC 3230-34, folded



BC 4845-25

Bulk Containers

Model	Outside Dimensions			Inside Dimensions			To Fill Line	Height Collapsed	Weight (lbs)	Volume (cubic feet)	Trailer Qty Collapsed
	L	W	H	L	W	H					
BC 3230-25	32.0	30.0	25.0	29.5	27.5	19.3	18.5	12.6	50	8.70	540
BC 3230-34	32.0	30.0	34.0	29.5	27.5	28.3	27.5	12.6	62	12.9	540
BC 4845-25	48.0	45.0	25.2	44.5	41.5	19.5	18.5	12.8	101	19.8	234
BC 4845-34	48.0	45.0	33.9	44.5	41.5	28.2	27.2	12.8	121	29.0	234
BC 4845-42	48.0	45.0	41.9	44.5	41.5	36.2	35.2	20.8	142	37.2	130
BC 4845-50	48.0	45.0	49.9	44.5	41.5	44.2	43.2	28.8	166	45.4	78
Bulk Container Lid	48.0	45.0							16		

Contact your Monoflo sales representative to discuss your application and maximum load ratings for all Monoflo products.

Long-lasting containers in a multitude of sizes.

Straightwall Containers

- Compatible with Monoflo 48" x 45" AIAG pallet system
- Designed for maximum cube utilization and easy cleaning
- Reinforced external ribbing provides maximum strength and secure stacking
- Ergonomic carrying handles
- Multiple identification areas enhance content tracking



NRSO 2422-07



NRSO 1215-07, flat bottom (L), cross-stacking bottom (R)



NRSO 2415-11

Straightwall Containers Featuring Smooth, Flat Bottoms

Model	Pallet Modularity	Outside Dimensions		Inside Dimensions		Total Height	Product Clearance	Weight (lbs)	Volume (cubic feet)	Trailer Qty 53'
		L	W	L	W					
RSO 1207-05 (textured bottom)	1/24	12.0	7.4	9.4	5.5	5.0	4.5	1.2	0.1	13,104
NRSO 1215-05	1/12	12.0	15.0	9.4	13.0	5.0	4.4	1.8	0.3	6,552
NRSO 1215-07	1/12	12.0	15.0	9.5	13.1	7.5	6.8	2.6	0.5	4,056
NRSO 1215-09	1/12	12.0	15.0	9.4	13.0	9.5	8.9	2.7	0.7	3,120
NRSO 2415-05	1/6	24.0	15.0	21.5	13.1	5.0	4.4	2.9	0.7	3,120
NRSO 2415-07	1/6	24.0	15.0	21.5	13.1	7.5	6.8	3.8	1.1	2,028
NRSO 2415-09	1/6	24.0	15.0	21.5	13.1	9.5	8.8	5.0	1.4	1,560
NRSO 2415-11	1/6	24.0	15.0	21.4	13.0	11.0	10.2	5.4	1.7	1,404
NRSO 2415-14	1/6	24.0	15.0	21.5	13.1	14.5	13.8	6.3	2.3	936
NRSO 2422-07	1/4	24.0	22.5	21.5	20.6	7.5	6.8	4.5	1.7	1,352
NRSO 2422-11	1/4	24.0	22.5	21.4	20.5	11.0	10.2	6.5	2.6	936
NRSO 2422-14	1/4	24.0	22.5	21.4	20.5	14.5	13.8	7.1	3.5	624
1215-Lid	1/12	12.0	15.0	N/A	N/A	0.9	N/A	0.9	N/A	31,200
2415-Lid	1/6	24.0	15.0	N/A	N/A	0.9	N/A	1.5	N/A	13,780
Fastener Container (comes standard with attached lid)										
RSO 1408-07 (textured bottom)	N/A	14.0	7.5	11.1	5.5	6.6	5.8	2.0	0.2	6,552

Straightwall Containers Featuring Reinforced, Cross-Stacking Bottoms

Model	Pallet Modularity	Outside Dimensions		Inside Dimensions		Total Height	Product Clearance	Weight (lbs)	Volume (cubic feet)	Trailer Qty 53'
		L	W	L	W					
NRSO 1215-05	1/12	12.0	15.0	9.5	13.1	5.0	4.3	1.9	0.3	6,552
NRSO 1215-07	1/12	12.0	15.0	9.5	13.1	7.5	6.3	2.7	0.5	4,056
NRSO 1215-09	1/12	12.0	15.0	9.5	13.1	9.5	8.4	3.0	0.6	3,120
NRSO 2415-05	1/6	24.0	15.0	21.5	13.1	5.0	3.9	3.0	0.6	3,120
NRSO 2415-07	1/6	24.0	15.0	21.5	13.1	7.5	6.3	4.7	1.0	2,028
NRSO 2415-09	1/6	24.0	15.0	21.5	13.1	9.5	8.3	5.3	1.2	1,560
NRSO 2415-11	1/6	24.0	15.0	21.5	13.1	11.0	9.7	6.0	1.6	1,404
NRSO 2415-14	1/6	24.0	15.0	21.5	13.1	14.5	13.3	8.3	2.1	936
NRSO 2422-07	1/4	24.0	22.5	21.5	20.6	7.5	6.3	6.4	1.6	1,352
NRSO 2422-11	1/4	24.0	22.5	21.4	20.6	11.0	9.7	7.9	2.5	936
NRSO 2422-14	1/4	24.0	22.5	21.5	20.6	14.5	13.2	8.5	3.47	624
1215-Lid	1/12	12.0	15.0	N/A	N/A	0.9	N/A	0.9	N/A	31,200
2415-Lid	1/6	24.0	15.0	N/A	N/A	0.9	N/A	1.5	N/A	13,780

Strong and secure. Flexible use.

Collapsible Containers

- Foldable tote knock down ratios as high as 5:1
- Foldable functionality brings significant savings on inbound freight
- Compatible with straight wall containers and AIAG pallet systems
- Available with vented or solid side walls
- Optional access doors available
- Available with flat or cross stack bottom
- 100% recyclable



KD 2415-09



KD 2415-09
two stacked

Collapsible Containers

Model	Outside Dimensions		Inside Dimensions		Total Height	Product Clearance	Folded Height	Weight (lbs)	Volume (cubic feet)	Trailer Qty 53'
	Top		Top							
	L	W	L	W						
KD 2415-07	23.9	15.0	22.2	13.6	7.4	6.6	2.8	5.3	1.2	6,240
KD 2415-09	23.9	15.0	22.2	13.6	9.5	8.5	3.5	6.1	1.6	4,992
KD 2415-11	23.9	15.0	22.2	13.6	10.9	9.9	3.5	6.5	1.8	4,992
KD 2415-14	23.9	15.0	22.2	13.6	13.7	12.8	3.5	7.2	2.3	4,056

Durable and stackable.

Pallet Systems

- High pressure injection molded
- Unique two-piece welded design offers increased durability and impact resistance
- Available options for two or four seat belts for cargo strapping
- Manufactured to the AIAG footprint
- Made with 100% recyclable plastic materials



SP 4845-5

Durable Manufacturing Pallets

Model	Entry	Outside Dimensions (inches)			Weight	Static Load (lbs)	Dynamic Load (lbs)	Nest Ratio	Stack Qty	Trailer Qty 53'
		L	W	H						
SP 4845-5	4-Way	48.0	45.0	5.0	50.0	30,000	4,000	1:1	21	546
Top Cap 4845 Injection Molded	N/A	48.0	45.0	1.0	16.0	N/A	N/A	N/A	50	1,170
NP 4845-6	4-Way	48.0	45.0	6.0	43.0	15,000	2,500	2.6:1	37	962
Top Cap 4845	N/A	48.0	45.0	1.0	20.0	N/A	N/A	N/A	50	1,170

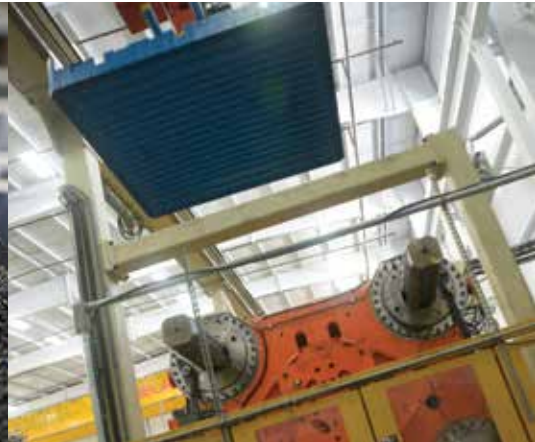
Monoflo Durable Manufacturing Pallets are available with zero, two, or four seat belt options.

Monoflo Durable Manufacturing Pallets are not meant to be edge racked.

Contact your Monoflo sales representative to discuss your application and maximum load ratings for all Monoflo products.

IF YOU DON'T SEE EXACTLY WHAT YOU NEED, TALK TO US. CUSTOMIZING YOUR PERFECT CONTAINER IS AN IMPORTANT PART OF OUR UNIQUE APPROACH.

Choosing the right path.



Sustainability is good business—good for the environment, good for your bottom line.

More than moving products from manufacturing to retail at the lowest cost and improving delivery quality of the primary package, Monoflo believes that making smarter operational choices that help the environment also help your bottom line.



Through superior engineering, Monoflo is able to reduce the secondary package weight for our customers by hundreds of pounds per truckload. This results in annual reductions of millions of pounds of freight hauled each year, which in turn requires less fuel to move. At the same time, the design of the products we produce ensures they will continue to perform through extended product lifecycles.

As part of our continuing commitment to environmental practices, Monoflo has a dedicated team whose sole responsibility is to buy back containers that have reached their end of life. These containers are ground and re-pelletized on-site. The resulting materials are used in making superior-quality, recycled containers.

But, sustainable business is not simply recycling and green practices, it's hiring and retaining the best people. It's investing in technologies that ensure the products we manufacture will have a longer product lifecycle and will perform for our customers time after time, order after order.



Proudly manufactured in America.

Through Monoflo's manufacturing facilities in Virginia and Kansas, we're creating manufacturing jobs in America and fostering domestic economic growth.

Manufacturing in America makes a statement that runs deep through our communities. For four decades and counting, our employees continue to exemplify the values associated with hard work, ingenuity and tradition.

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