

ACE ROTO-MOLD FLOAT DRUMS, SETTING QUALITY STANDARDS – INSIDE & OUT

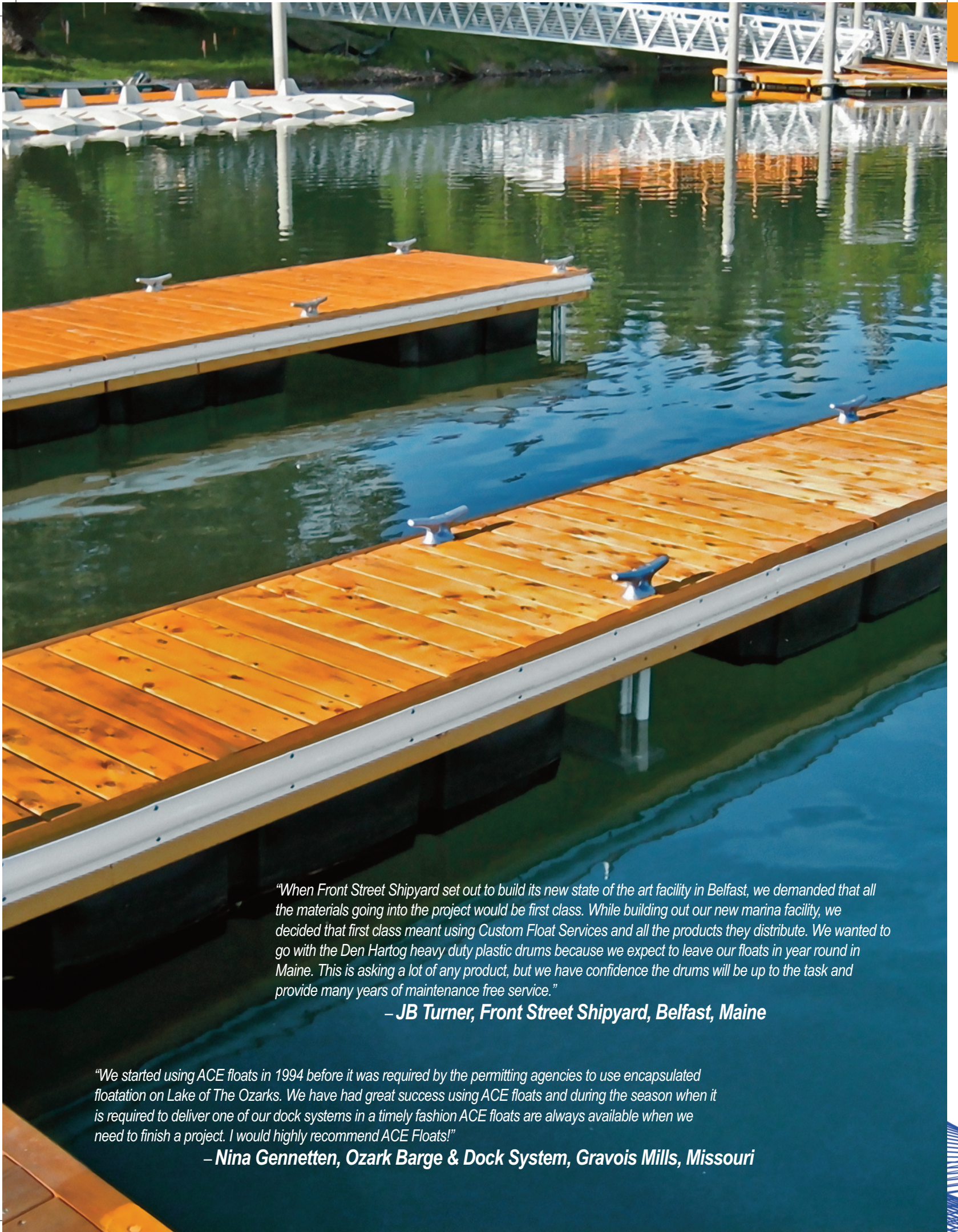
ACE

Roto-Mold Float Drums

BY DEN HARTOG INDUSTRIES, INC.



Den Hartog
INDUSTRIES, INC.



"When Front Street Shipyard set out to build its new state of the art facility in Belfast, we demanded that all the materials going into the project would be first class. While building out our new marina facility, we decided that first class meant using Custom Float Services and all the products they distribute. We wanted to go with the Den Hartog heavy duty plastic drums because we expect to leave our floats in year round in Maine. This is asking a lot of any product, but we have confidence the drums will be up to the task and provide many years of maintenance free service."

– JB Turner, Front Street Shipyard, Belfast, Maine

"We started using ACE floats in 1994 before it was required by the permitting agencies to use encapsulated floatation on Lake of The Ozarks. We have had great success using ACE floats and during the season when it is required to deliver one of our dock systems in a timely fashion ACE floats are always available when we need to finish a project. I would highly recommend ACE Floats!"

– Nina Gennetten, Ozark Barge & Dock System, Gravois Mills, Missouri

WE DON'T WANT TO BEAT OUR OWN DRUM BUT IF WE DID, OUR FLOAT DRUM COULD TAKE IT.

ASTM D1998-06 Falling Dart Impact Test: Validates that virgin grade resin is being used and that the molding process is complete and properly done. When punctured, Ace Roto-Mold Float Drums do not crack or shatter.

7-Day Hunt Water Absorption Test: Foam fill will aid in maintaining buoyancy if float becomes damaged. Properly steamed foam creates a tight seal which will prevent waterlogged floats and sinking docks. Void-free foam also supports outer shell walls, adding strength. Ace Roto-Mold Float Drums meet or exceed the test standard of 3 lbs per cubic foot.

Encasement Wall Thickness Standard: Eliminates weak wall floats with early failure potential and provides an insurance policy against unnecessary repair costs. Ensures floats will hold up to pre and post install abuse. Ace Roto-Mold Float drums have a nominal wall thickness of 0.150" and a minimum thickness of 0.125".

Tank Tested Buoyancy Ratings: Calibrated Tank Tested Buoyancy for each model unit is available.

US Army Corp of Engineers Regulation 33CFR Part 327.30: Ace Roto-Mold Float Drums meet or exceed the US Army Corp of Engineers standards under Regulation 33CFR Part 327.30.

15-Year Float Drum Warranty: Ace Roto-Mold offers a 15-Year Float Drum Warranty on all of its manufactured float drums to the original owner.

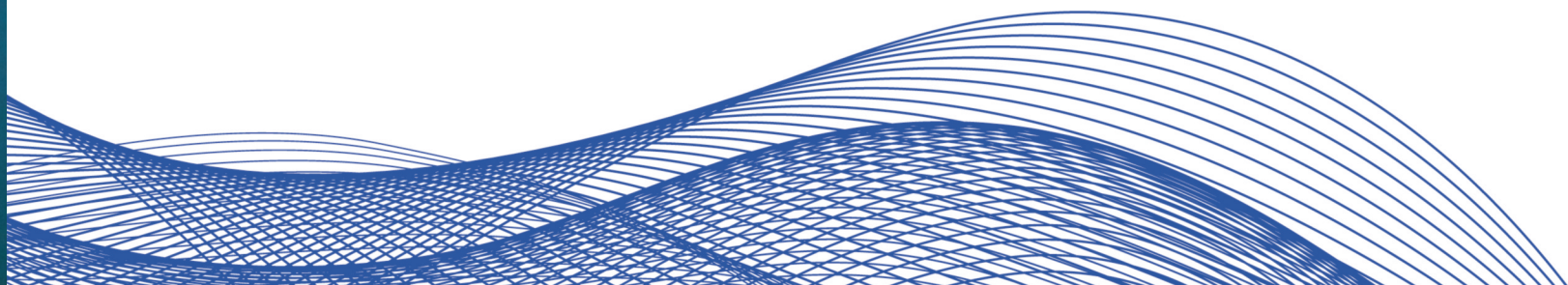
One Piece Shell Construction

Heavy Mounting Flanges
1 1/4" x 1 3/4" thick

Foam Filled (EPS)

Structural Ribs

Mounting Slots
9/16" wide x 1 1/2 to 1 5/8" long

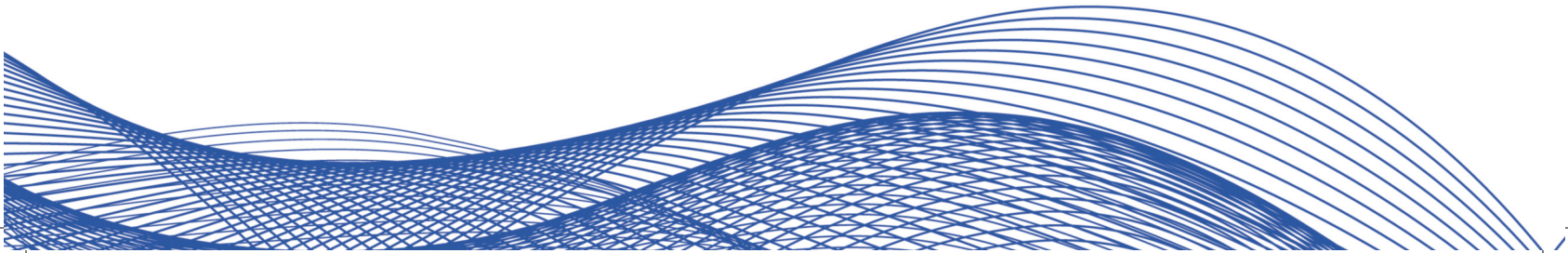


PRODUCT TABLE



Model #	Size WxLxH (inches)	Cubic Feet	Weight (lbs)	Tank Tested Buoyancy (lbs) (+/-2%)
FF1248-20*	12 x 48 x 20	6.7	27	359
FF1848-36	18 x 48 x 36	18	54	966
FF2072-08*	20 x 72 x 08	6.7	34	360
FF2072-10*	20 x 72 x 10	7.9	38	450
FF2096-10	20 x 96 x 10	11.1	50	592
FF2436-08*	24 x 36 x 08	4	21	211
FF2436-12*	24 x 36 x 12	6	27	318
FF2436-16*	24 x 36 x 16	8	30	436
FF2436-20*	24 x 36 x 20	10	33	540
FF2448-08*	24 x 48 x 08	5.3	27	288
FF2448-12*	24 x 48 x 12	8	33	433
FF2448-16*	24 x 48 x 16	10.7	39	581
FF2448-20	24 x 48 x 20	13.3	44	729
FF2448-24	24 x 48 x 24	16	50	866
FF2448-36	24 x 48 x 36	24	72	1297
FF2496-08	24 x 96 x 08	10.7	53	562
FF2496-12	24 x 96 x 12	16	64	866
FF2496-16	24 x 96 x 16	21.3	75	1155
FF3648-08	36 x 48 x 08	8	37	429
FF3648-12	36 x 48 x 12	12	45	650
FF3648-16	36 x 48 x 16	16	51	874
FF3648-18	36 x 48 x 18	18	54	990
FF3648-20	36 x 48 x 20	20	62	1088
FF3648-24	36 x 48 x 24	24	66	1280
FF3648-32	36 x 48 x 32	32	82	1644
FF3672-12	36 x 72 x 12	18	62	999
FF3672-16	36 x 72 x 16	24	78	1313
FF3672-20	36 x 72 x 20	30	87	1638
FF3672-24	36 x 72 x 24	36	99	1951
FF3672-32	36 x 72 x 32	48	120	2553
FF3696-12	36 x 96 x 12	24	90	1331
FF3696-16	36 x 96 x 16	32	103	1735
FF3696-20	36 x 96 x 20	40	112	2172
FF3696-24	36 x 96 x 24	48	132	2597
FF3696-32	36 x 96 x 32	64	149	3349
FF3878-12	38 x 78 x 12	20.6	76	1133

*indicates it can be shipped in the US via UPS/FedEx





continued **PRODUCT TABLE**

Model #	Size WxLxH (inches)	Cubic Feet	Weight (lbs)	Tank Tested Buoyancy (lbs) (+/-2%)
FF4272-12	42 x 72 x 12	21	80	1166
FF4272-16	42 x 72 x 16	28	86	1555
FF4848-12	48 x 48 x 12	16	55	878
FF4848-16	48 x 48 x 16	21.3	67	1182
FF4848-20	48 x 48 x 20	26.7	77	1480
FF4848-24	48 x 48 x 24	32	86	1738
FF4848-32	48 x 48 x 32	42.7	108	2231
FF4860-12	48 x 60 x 12	20	73	1101
FF4860-16	48 x 60 x 16	26.7	80	1497
FF4860-20	48 x 60 x 20	33.3	92	1851
FF4860-24	48 x 60 x 24	40	106	2199
FF4860-32	48 x 60 x 32	53.3	130	2815
FF4872-12	48 x 72 x 12	24	78	1369
FF4872-16	48 x 72 x 16	32	98	1823
FF4872-20	48 x 72 x 20	40	111	2225
FF4872-24	48 x 72 x 24	48	123	2701
FF4872-28	48 x 72 x 28	56	141	2940
FF4872-32	48 x 72 x 32	64	154	3457
FF4896-12	48 x 96 x 12	32	109	1803
FF4896-16	48 x 96 x 16	42.7	131	2396
FF4896-20	48 x 96 x 20	53.3	145	2996
FF4896-24	48 x 96 x 24	64	163	3578
FF4896-32	48 x 96 x 32	85.3	193	4631
FF48120-20	48 x 120 x 20	66.7	177	3692



MEETING YOUR PROJECT BUOYANCY NEEDS

Ace Roto-Mold foam-filled Float Drums offer durable flotation for a variety of new or existing dock systems. The plastic exterior one-piece seamless shell design prevents leakage and separation caused by weak joints. The drum wall is made of tough virgin polyethylene with ultra violet inhibitors to prevent damage from the sun, debris, oil, gas, marine organisms, salt and fresh water. A nominal wall thickness of 0.150" and a minimum thickness of 0.125", offers a stronger, more durable float. The top of the shell is flat with molded-in mounting slots for easy attachment to any dock frame.

The interior of the float drum is filled with expanded polystyrene (EPS) foam. The foam is steam pressured for a tight fit that provides the highest buoyancy possible. The foam interior provides flotation if the outside shell becomes punctured and is continually tested to meet or exceed the Hunt Water Absorption Test standard of 3 lbs. per cubic foot. The "Falling Dart" test and ultrasonic wall thickness testing are part of Ace Roto-Mold's quality procedures to ensure the durable, long life of our float drums.





ADDITIONAL PRODUCTS



Boat Lift Air Tanks

Ace Roto-Mold Boat lift Air Tanks feature a molded-in hole in the bottom for water intake and exhaust. Molded-in grooves and slots make attachment to a boat lift frame easy.



Cylindrical Floats

Used for wave attenuation as breakwaters, barriers and booms.



Cushions

Ace Dock Accessories
A DIVISION OF DEN HARTOG INDUSTRIES, INC.

Featuring extra-value blow-molded cushions and quality rotationally-molded dock cushions, Ace Dock Cushions offer excellent protection. Ace Dock Cushions are easy to mount, won't scratch or mar boats, and provide high visibility day or night.



Buoys

Ace Dock Accessories
A DIVISION OF DEN HARTOG INDUSTRIES, INC.

The innovative design of Ace Mooring Buoys is easy to recognize. Designed to be durable and attractive, the buoys have several new features and can be personalized with little effort.



Dock Harbor Cushions

Ace Dock Accessories
A DIVISION OF DEN HARTOG INDUSTRIES, INC.

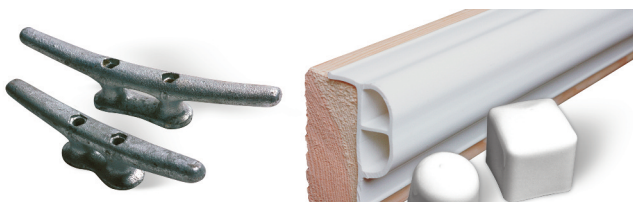
Ace Roto-mold Dock Harbor cushions provide excellent protection for your larger boat. They are manufactured from durable polyethylene and are environmentally safe and easy to mount



VersaFloat

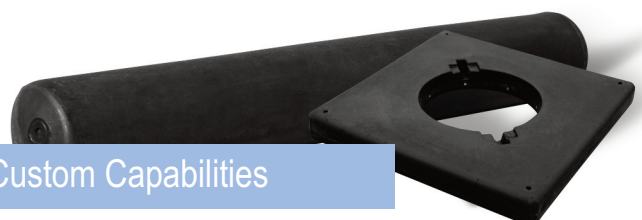


Den Hartog Industries' VERSAFLOAT Blow-Molded Float Drums are designed to provide a safe and durable means for the support of floating dock systems and feature 8 mounting slots for attachment.



Dock Cleats, Safety Caps & Rubrail

Ace Roto-Mold's line of rub rail and safety cap are safe and easy to mount. Galvanized dock cleats are also available.



Custom Capabilities

Den Hartog Industries is capable of roto-molding and foam filling in a variety of shapes, sizes and colors.

Additional information and literature available at www.denhartogindustries.com or email us at sales@denhartogindustries.com.



HISTORY

A reflection on the company's history shows that the same values that founded the company drive the business today.

John J. and Ann Den Hartog purchased J & J Hardware in Hospers, IA, in 1966. For 10 years they enjoyed serving the community but decided that they would like to do even more. On February 9, 1976 they purchased H & S Manufacturing.

Their beginnings with H & S Mfg. consisted of 6 employees and 3 acres of land. They fabricated metal products for hog operations under the Sowjoy brand. Soon after that the couple decided to further expand their business by purchasing VW Dock Company in 1977. VW Dock had been a customer who produced boat docks. It was this transition that helped to lead the company into plastics with the desire to expand into float drums.



In March of 1990, the company entered into plastic manufacturing with the launch of Ace Roto-Mold Manufacturing, rotationally molding storage tanks for

agricultural and industrial use as well as float drums. They also began molding custom parts for customers in various industries. The VW Dock portion of the business was sold in 1993 but today the



Ace Roto-Mold division continues to produce a whole line of marine products including float drums and dock cushions.

The Den Hartogs continued to expand by adding the Ace Injection Molding facility in 1995. Today, the Injection Molding division makes lids and fittings for the Ace Roto-Mold tanks as well as a variety of specialized products for an expanding list of industries.

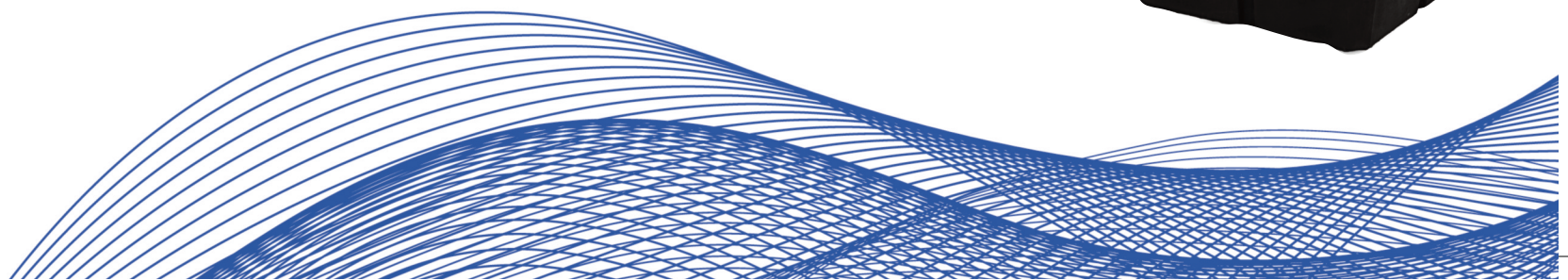
John J. and Ann always encouraged their children to be involved with the company. In 1998 they were able to pass their growing business to their children, John G. Den Hartog, Barb Truesdell and Julie Henrich. The second generation of Den Hartogs incorporated H & S Mfg. and Ace Roto-Mold under one name, Den Hartog Industries, Inc. John G. Den Hartog, President, along with Paul Truesdell, Vice President and Jerry Henrich, Corporate

Secretary/Treasurer, are leading the company into the future.

In 2000, Den Hartog Industries, Inc. took another step by adding the Blow Molding division which added a third type of plastic

processing to its capabilities. They also launched the Ace Dock Accessories brand in 2004, bringing marine products to the retail market.

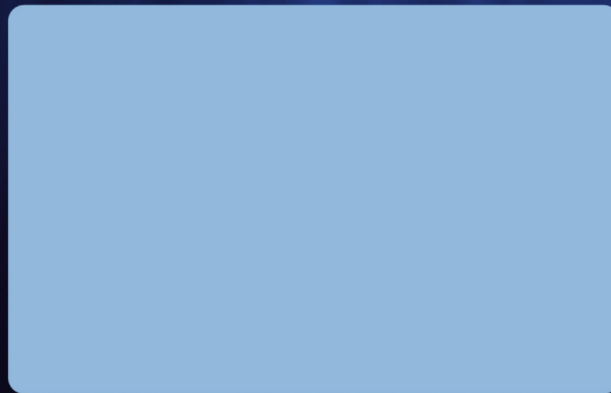
Today, Den Hartog Industries' four divisions – Ace Roto-Mold, Blow Molding, Injection Molding and Sowjoy – employ over 300 people in facilities in excess of 365,000 sq. feet. The company-owned fleet of trucks distributes products nationwide and into Canada. For over 35 years, Den Hartog Industries, Inc. has been, and always will be, committed to serving its customers and community by being "Always At Your Service."



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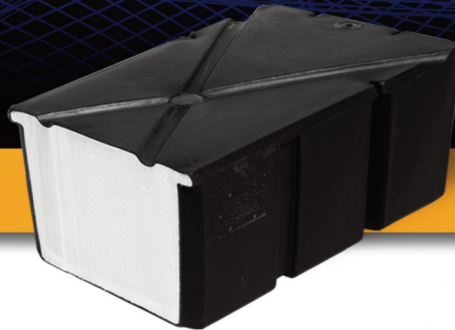
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