

Volume 7 Issue 2

## Application Highlight

### TriStar Makes a Big Splash with CJ Composite Bearings

TriStar Plastics has made a big splash in the marine industry — by delivering components that allow boaters to spend more time in the water and less time on maintenance. The company's CJ bearings, commonly used in marine lifts and davits, have pioneered the use of galvanic insulators, which deliver superior wear and corrosion resistance for an enhanced boating experience.

#### The allure

Whether seagoing or lakeside, inboard or outboard, the allure of recreational boating is universal — quality leisure time spent in nature. Growth of the hobby has been fueled by active families in search of watersports like fishing and wakeboarding, as well as retirees heading to warmer destinations and bringing their boats (and luxury yachts) with them. No matter the activity, all recreational boaters are looking to maximize the fun factor, while lessening the time and costs associated with upkeep and repair.

#### History, redefined

Marine manufacturers have heeded the call — by incorporating CJ bearings in their production process. CJs are used both onboard a craft to support a dinghy, and at dockside on residential boat lifts. They have revolutionized the industry through their use of galvanic insulators, which deliver longer wear, and superior chemical resistance to inhibit marine barnacle growth. Before this material, manufacturers historically used die-cast bronze, but found it to have a low corrosion and chemical threshold. Instead, CJ bearings last longer and maintain easier when exposed to the elements.

#### Green appeal

CJ bearings are commonly found on recreational bay boats in the 18' -24' range, both in salt and fresh water. They have a high strength ratio, and frequently host a load capacity of 5,000-10,000 pounds. They are proudly designed and manufactured in the US, and are recognized for their "green" appeal, since they are self-lubricating and come from a water-soluble production process. CJs are also prized for their durability in the agriculture, automotive, construction and railway industries.

Simply put, marine manufacturers agree that CJ composite bearings blow the competition — well — out of the water!

To learn more about the TriStar advantage, visit us at **Design and Manufacturing South, March 19-20** in Charlotte, NC [Booth #228]. TriStar engineers will be on hand to answer questions about surface modification techniques and advances in bearing materials. Or visit our website at [tstar.com](http://tstar.com).

We've created "[The TriStar Advantage](#)" with you in mind.

#### Ask the Experts!

Click here to submit your questions directly to our Technical Director.



Download a  
CJ Composite Bearing  
brochure

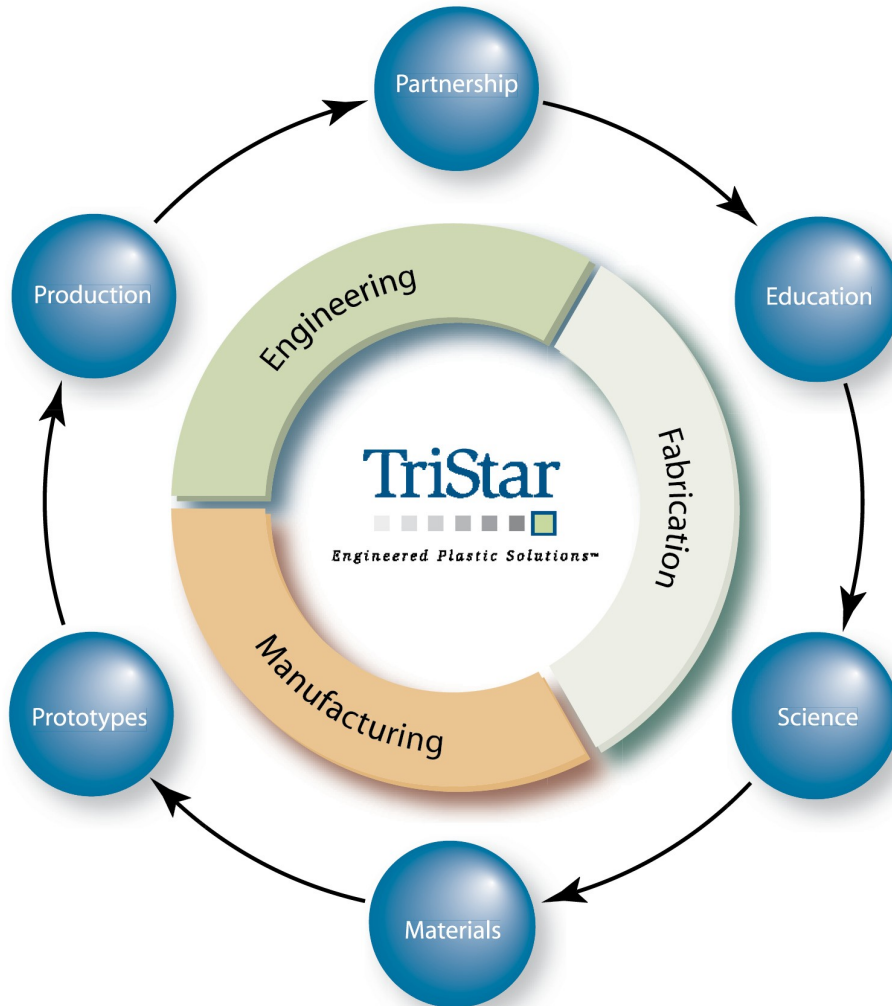


The  
Advantage  
is Clear

## Our business has been designed by you.

Established in 1982, TriStar Plastics Corp. provides engineering, custom fabrication and manufacturing of high-performance polymers, composites and self-lubricating bearing materials.

With engineering and sales offices coast to coast we stand ready to serve you.



Engineered Plastic Solutions™

### Over 50 Industries Served

Since 1982 TriStar has been the in-house engineering resource providing engineering, design assistance, prototyping, custom fabrication, and manufacturing in over 50 industries including:

- Agriculture
- Construction
- Food
- Marine
- Medical
- Railroad