



More than 65 years producing
precision aluminum die castings

Rangers Die Casting Company

RANGERS RESULTS

Quarterly News

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Ready for the New Hazard Communication Requirements?

Hazard Communication Standard Pictograms

Train Your Employees
by December 1, 2013
It's The LAW!



Based on a press announcement appearing on the OSHA website, you are "required to train workers by December 1, 2013 on the new labels elements and safety data sheets format to facilitate recognition and understanding."

Material Safety Data Sheets are required for all employers with hazardous chemicals in their workplace. The requirements include making information available to exposed workers and to train your workers on how to handle the chemicals appropriately.

"Exposure to hazardous chemicals to one of the most serious threats facing American workers today," said U.S. Secretary of Labor Hilda Solis. "Revising OSHA's Hazard Communication standard will improve the quality and consistency of hazard information, making it safer for workers to do their jobs and easier for employer to stay competitive."

The revised standard brings the U.S. into alignment with the Globally Harmonized System of Classification and Labeling of Chemicals. This update to the Hazard Communication Standard will provide a common and coherent approach to classifying chemicals and communicating hazard information on labels and safety data sheets.

What this Means for You as a Die Cast Customer

Safety is of utmost importance to Rangers Die Casting and has been since our founding in 1946. We can only succeed through the efforts of a safe, secure workforce. For our customers, this means the work we perform on your behalf is handled with the same attention to detail, quality and concern for safety that you deploy in your own facilities. You can't have quality without safety. The two go hand-in-hand at Rangers Die Casting. For more information on this important topic, visit the OSHA website at <https://www.osha.gov/dsg/hazcom>.

Die Casting Process Works Best, Most Cost Effective!

Compared to other manufacturing processes, die casting is your best choice. Here's why:

Stampings: Die cast components require less machining so they cost less. You obtain greater design flexibility with die casting so you can achieve more complex shapes. This means you gain greater versatility which allows you to create a wider variety of designs. Die casting meets tighter tolerances than you can achieve from a stamping. And you design more



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ISO 9001:2008 Certificate Updated

We have successfully extended our ISO certification until 2016. With this extension, you can continue to depend on Rangers as a quality-focused die cast operation. ISO certification is an important tool that ensures our operations are as efficient as possible with improved productivity. Certification makes it easier for us to serve OEMs within the U.S. market as well as the global marketplace.



The ISO Certification extension assures you of the following benefits when you choose Rangers as your die cast producer:

- **Cost-Effective:** the ISO certification process optimizes our operations to improve our cost structure.
- **Enhanced Customer Satisfaction:** ISO certification means our operations are organized to deliver the highest levels of quality to assure your satisfaction with the die cast components we deliver to you.
- **Increased Productivity:** ISO certification is a process that requires our facilities to be efficient, offering you a high level of productivity. This translates directly into a quality component delivered at an attractive price point, giving you a competitive advantage.
- **Minimized Environmental Impact:** ISO certification helps us reduce negative impacts on the environment.



Die Casting Process Works Best, Most Cost Effective!

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 variations in wall thickness. Die casting delivers a greater variety in surface finishes. The casting process produces stronger components and lighter weight advantages than stampings. Die casting also produces less machine waste.

Forgings: Die cast components deliver a lower final cost compared to forgings. And you can die cast more complex shapes. Die casting delivers more versatility for machining and meets tighter tolerances than forgings. You can specify thinner walls with die cast components and the finish will be smoother. You have less machine waste with die casting along with greater strength and lighter weight.

Sand Castings: The process costs less for production and machining. Die casting gives you more versatility with less machining required. You can achieve tighter tolerances with die casting, including thinner walls. The surface finish of a die cast component is smoother. Die castings produce less machine waste. And you achieve greater strength and lighter weight with a die casting product.



10 Things You Should Know About Rangers Die Casting

10. We comply with all OSHA safety requirements.
9. We believe safety first is an important part of producing quality die cast components.
8. We were the first and still one of the few companies in the western states that use real-time x-ray technology for ongoing quality assurance of cast aluminum parts.
7. We have delivered effective customer solutions for more than six decades.
6. We can help you convert existing parts from other material to cost-effective aluminum die castings using appropriate aluminum alloys.
5. We deliver on-time cast aluminum parts and components, not excuses.
4. We do our own precision machining of aluminum alloy castings, complete metal finishing and cast aluminum parts assembly to save you time.
3. We cast aluminum alloys 380, 383, 384, 360, 413 into high quality die cast aluminum parts.
2. Our engineers work with you from the start to ensure the correct tooling, die casting geometry and aluminum alloys are used to create a quality part.
1. We are able to create models to verify that the component design will meet your product specifications for precision engineered aluminum die castings.

Permanent Mold Castings: Die castings cost less because they require less labor, production and machining costs. They also require less draft. Die castings are more versatile. You can achieve tighter tolerances. With die castings you can produce thinner walls, a smoother finish and less machine waste. Die castings are stronger and lighter weight compared to permanent mold castings.

The Proof is Often in the Results.
 One of our customers asked us to develop a more efficient production process for a cast iron brake caliper used in snowmobiles and off-road quad vehicles. The original assembly consisted of two cast iron components that had to be bolted together. A new one piece aluminum die casting was designed to replace the two parts. The 3 x 4 inch, half-pound caliper was precision cast in Al 360 in one of our 400-ton machines.

The new aluminum die casting caliper eliminated assembly time, with the savings providing a 75% reduction in production time. The new component reduced the caliper weight by 60%, which improved the performance of the snowmobiles and quads.

Let Rangers Die Casting show you how to achieve results like this by switching your component production to high quality, affordable aluminum die castings.



Customer Focus - A Priority

Customer focus is the No. 1 reason OEMs choose Rangers Die Casting for their die cast components. You experience our focus from the time you place your order through our customer support and sales team as we answer your questions and guide you to choose the best solution for your project. Our production team makes sure your die represents the best design for your use. We select the alloy appropriate to your component. Your project runs through the die casting operation and onto any finishing services you need.

At every step of the way, we have the systems in place to assure a quality result for you. For your Just-in-Time manufacturing requirements, we offer industry leading scheduling accuracy and production processes designed for high quality while assuring your order ships on time.

Lean manufacturing techniques assure you of a cost-efficient result with the high quality you expect from an American manufacturing operation. At Rangers Die Casting, you'll enjoy the way we focus on meeting your most stringent technical and production requirements.



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