



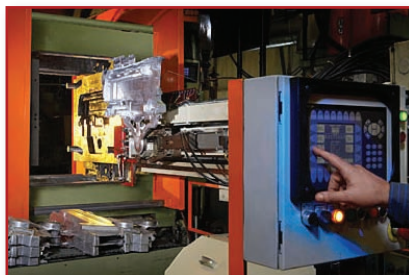
# RANGERS Results

## Quarterly News

10828 S. Alameda Street, Lynwood, CA 90262-0127 • TEL: 310.764.1800 • TOLL-FREE: 1.877.386.9969 • FAX: 310.603.1914 • EMAIL: info@rangersdiecasting.com • www.rangersdiecasting.com

## Choosing the Right Aluminum Die Caster for Your Project

Selecting the right die caster for your project can often be an involved decision making process. Since 1946, Rangers Die Casting has focused its energies on working with OEMs to make your job easier and more cost efficient for the production of the highest quality aluminum components. Here are some practical considerations as you choose a die caster for your next project:



- **Casting Flexibility** – Will your die caster deliver cost-effective solutions in the required quantities? Rangers is an excellent choice for aluminum production runs of 100 to one million pieces a year. There is no aluminum die casting job either too large or small for the production staff at Rangers.



- **Quality** – What does your die caster do to assure quality? 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. Our die casting company's quality control and ISO certification ensures your aluminum die castings meet exact casting specifications.

- **Quick Turnaround** – Will your die caster deliver your job on time? Our in-house aluminum die casting design, production and finishing ensures that orders are ready when you need them. We do our own precision machining of aluminum alloy castings, complete metal finishing and cast aluminum parts assembly to save you time. Plus, we're close to our major customers, eliminating shipping lags from offshore suppliers.

- **Experience** – Does your die caster have the experience necessary to produce the complex shapes you need and to manage your die cast program properly? We have delivered effective customer solutions for nearly seven decades. Rangers' company experience is backed by a stable management team that knows and monitors industry trends. We know what it takes to produce exceptional die cast aluminum components.

- **Collaboration** – How will your die caster work with your team? We work with our customers to understand their design needs and develop effective solutions. Listening to your needs and understanding critical production requirements ensures long-term success and meaningful working relationships. We can help you convert existing parts from other materials to cost-effective aluminum die castings using the appropriate aluminum alloys.

We invite you to learn more about our aluminum die casting capabilities... You are encouraged to call us toll-free at: **1-877.386.9969**.

## Casting Parts With Aluminum Alloys

Your engineered metal parts benefit from the versatility and quality that result from aluminum die casting. This process involves pouring molten aluminum into steel molds or dies. We design these dies to produce the complex shapes you require with a high degree of accuracy and repeatability. The steel dies can be reused to further assure repeatability.

Aluminum die casting is an excellent choice whether your parts require sharply defined shapes with smooth or textured surfaces. Components produced by aluminum die casting are well suited for a wide range of attractive finishes, such as powder coating.

Aluminum die casting is an affordable solution for prototyping as well as for high volume, mass-produced manufactured items. Rangers produces parts for many consumer, commercial and industrial end products.



According to the North American Die Casting Association (NADCA), the die casting process has evolved from the original low-pressure injection method of bygone years to techniques like our high-pressure casting – at forces exceeding 4500 pounds per square inch.

As a result, we can produce high integrity, near net-shape castings with excellent surface finishes. Rangers can produce castings in a variety of sizes, shapes and wall thicknesses that are strong, durable and dimensionally precise.



## How Dies Work for You

NADCA describes the die construction process as follows: “Dies, or die casting tooling, are made of alloy tool steels in at least two sections, the fixed die half, or cover half, and the ejector die half, to permit removal of castings. Modern dies also may have moveable slides, cores or other sections to produce holes, threads and other desired shapes in the casting. Sprue holes in the fixed die half allow molten metal to enter the die and fill the cavity. The ejector half usually contains the runners (passageways) and gates (inlets) that route molten metal to the cavity.

Dies also include locking pins to secure the two halves, ejector pins to help remove the cast part, and openings for coolant and lubricant. When the die casting machine closes, the two die halves are locked and held together by the machine’s hydraulic pressure. The surface where the ejector and fixed halves of the die meet and lock is referred to as the “die parting line.”



Photo courtesy of  
Strowig Industries,  
Richfield, Wisconsin

No matter how simple or complex the part your design requires, Rangers can cast it for you.

### Come Visit Us at Our Booth #255



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### How Are We Doing?

Rangers Die Casting completed a successful year in 2013 and we’re looking forward to serving you even better in 2014 and beyond.

To help us improve our services, we’d love to hear from you.

This is your invitation to connect with us to express whatever is on your mind about Rangers.

Naturally, we enjoy hearing your positive comments, but we welcome your critiques as well so that we can have your input as we plan the future of our operations.

Please email your comments to:

**info@nmmarketingbiz.com**



**RANGERS**  
— SINCE 1946 —

*More than 65 years producing  
precision aluminum die castings*

**Rangers Die Casting Company**

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