

Independent customer testing has found that Advance ladlers have a repeatable accuracy higher than our advertised 99+%.

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Advance designs its ladlers for the **highest repeatability**, which means lower cost of operation. For example, compare a 60-second cycle operation for 5 days, 20 hours per day, using a 10-pound nominal pour. Then compare a competitor's ladler of 10% pouring repeatability against Advance's 1% repeatability guarantee.

Competitor's ladler 10% repeatability for a 10-pound casting: 60 second shot X 20 hours X 5 days = 6,000 shots per week or 60,000 pounds of aluminum. The shot weight variation would be from 60,000 pounds to 66,000 pounds (10% maximum variation) or 6,000 pounds too much. Let's say, however, the excess average is half of that or 3,000 pounds of aluminum per week.

Now, compare to Advance's 1% repeatability: The average shot weight variance is 300 pounds per week.

The metal saving difference is **2,700 pounds per week**.

At 50 weeks per year, that's equal to **135,000 pounds of metal** you've purchased, inventoried, and melted unnecessarily! And these figures are only for a 10-pound casting!

### **Cost to Your Company**

One die caster has stated that "a biscuit 1" longer than needed (on a 2 1/2" diameter sleeve) costs about \$50,000 a year (per machine) in remelt costs." You can't afford **not** to have the most accurate ladler in the industry.

### **Achieving 99+% Pouring Accuracy in Ladlers**

The 99+% is achieved because the ladle cup spill-off angle is controlled by the servo motor and servo drive. One revolution of the ladle cup is divided into almost 2 million parts (1,966,000 to be exact). This means that the cup spill-off angle can be controlled to 2 millionth of its rotation and it's this repeatability of the spill-off angle that achieves the ladlers' shot size repeatability.

Unlike other ladles, the ladler achieves the same repeatability regardless of metal level draw down.