

Different Die Casting Methods

Die Casting is one of the most popular ways to manufacture metal products. This form of production is one of the fastest ways to produce sturdy, accurate, and consistent results. There are a number of different techniques used by manufacturers across the country. The most prominent are high pressure die casting, low pressure die casting, and vacuum die casting.

High Pressure Die Casting

This is one of the more complicated methods of die casting. Used in place of cheaper alternatives, this type of die casting produces the highest quality results. Products come out smooth, and require minimal machining after being cast. This is by far the fastest method of die casting, producing results well in advance of other methods.

Low Pressure Die Casting

The simplest method of casting. Cheaper than high pressure casting, this method produces results of slightly lower quality. This is a longer approach to die casting, and can't cast products with details thinner than three millimeters.

Vacuum Die Casting

This type of die casting is really only relevant in products with a risk of air entrapment. This assurance comes with some trade offs. Products are left with marks caused by build up of grease and dirt in the molds. Similar to low pressure casting this method can only cast in a limited degree of detail. The largest consequence being the vast inconsistency in the thickness of 'identical' products.

Twin City Die Castings Co.

Minneapolis, Minnesota - Watertown, South Dakota - Monticello, Minnesota



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The TCDC Guarantee

Twin City Die Castings (TCDC) is on the cutting edge of manufacturing nationwide. Sparing no expense for its customers, TCDC practices high pressure die casting. This may be the most expensive technique of die casting, but it's a surefire way of making safe, durable, and reliable products. Yet another example of TCDC merging innovation with experience, guaranteeing its ability to engineer solutions that provide precision die castings to market-leading customers at the best overall value.

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