

Facility Capabilities

	<u>Carondelet Division</u> 8600 Commercial Blvd. Pevely, MO 63070 T: 1-636-479-4499 F: 1-636-479-3399	<u>Sandusky International Division</u> 510 W. Water St. Sandusky, OH 44870 T: 1-419 626-5340 F: 1-419 626-3339	<u>Sandusky Limited Division</u> Viewfield Estate, Glenrothes, KY6 2RQ, Scotland T:+44(0)1592 773030 F:+44(0)1592 775412	<u>Wisconsin Centrifugal Division</u> 905 E. St. Paul Ave. Waukesha, WI 53188 T: 1-262-544-7777 F: 1-262-544-7843	<u>Wisconsin Investcast Division</u> 661 South 12th St Watertown, WI 53094 T: 1-920-261-2114 F: 1-920-261-5663
Plant Size	180,000 ft ² /16,700 m ²	250,000 ft ² /23,000 m ²	59,300 ft ² /5,500 m ²	450,000 ft ² /42,000 m ²	70,000 ft ² /6,500 m ²
Alloys	Stainless steel, nickel, cobalt and steel alloys	Ferrous and non-ferrous alloys	Stainless steel, mild steel & copper based	400+ ferrous and non-ferrous alloys	Stainless steel, nickel, cobalt and steel alloys
Casting processes	Static Sand	Horizontal Centrifugal and 15lb Static Ingot	Horizontal Centrifugal	Horiz + Vert Centrifugal, and Continuous Cast	Investment
Max size	144" / 3,660mm	60"/1525mm diameter 432"/11000mm length	41.1" / 1,044mm dia. 413"/10490mm length	<u>Horizontal</u> 50"/1,270mm dia. 240"/6,100mm length <u>Vertical</u> 180"/4,572mm dia.	40" dia x 34" length / 1,016mm x 864mm
Max pour weight (As Cast Centrifugal can ship at this weight)	36,000lb / 16,360kg	135,000lb / 61,350kg	<u>Copper based</u> 44,000lb / 20,000kg <u>Ferrous</u> 28,650lb / 13,000kg	<u>Non-Ferrous</u> 34,000lb / 15,450kg <u>Ferrous</u> 24,000lb / 10,900kg <u>Vacuum</u> 800lb / 364kg	1400lb / 635kg
Max net ship weight	Approx. 17,600lb / 8,000kg	Approx. 100,000lb / 45,450 kg	<u>Copper based (machined)</u> 34,000lb / 15,440kg <u>Ferrous (unmachined)</u> 27,550lb / 12,500kg	<u>Non-Ferr Finish Mach</u> ~24,000lb / 10,900kg, <u>Ferrous Finish Mach</u> ~17,000lb / 7,730kg <u>Vacuum Finish Mach</u> ~600lb / 270kg	Approx. 850lb / 385kg
AOD capacity	10,000lb / 4,550kg	40,000lb / 18,200 kg	N/A	12,000lb / 5,450kg + Arc	N/A
In-house capabilities	Isocure and no-bake molding (IMF + floor), HPLT molding, Heat treat, NDT, Inspection lab services	Heat Treat, NDT, Inspection and lab services	Centrifugal casting, heat treat, OD & ID machining, multi-spindle drilling, radial and end drilling	Heat Treat, NDT, Inspection and lab services	State of the art robotic shell lines, NDT, Inspection and lab services
Other capabilities	In-house pattern shop, patternless molding capability	Complete rough and finish machining, grinding, balancing, surface and end drilling facilities	Complete rough and finish machine facilities	Complete rough and finish machining facilities, rapid prototyping	Finish machined parts, ceramic and soluble cores, rapid prototyping
Certifications	ISO9001, NORSOK, PED, Material Qualified Material Organization and numerous customer approvals	ISO9001 and numerous customer approvals	ISO9001:2008, LR, ABS, GL, DNV and numerous customer approvals	ISO9001, AS9100, Nadcap, various MIL specs, Nuclear ASME Sec III, PED, and numerous customer approvals	ISO9001, AS9100, Nadcap, various MIL-Specs and numerous customer approvals
Solidification Modeling	MagmaSoft, ModelingProE	N/A	N/A	Flow3D, SolidCast	ProCast, SolidCast
Elect. Info Transfer	STEP, IGES, ProE	SolidWorks	N/A	STEP, IGES, ParaSolid	SolidWorks, ParaSolid, STEP, IGES