SPOKANE INDUSTRIES

PRECISION INVESTMENT CASTINGS

PERFORMANCE • QUALITY • DELIVERY

Benefits of Investment Casting

- Design Flexibility
- Product Simplification
- Rapid Prototyping
- Near Net Shapes
- Cost Savings

SPOKANE INDUSTRIES® Precision Castings Division foundry delivers high quality, high performance precision investment castings to a wide range of commercial, medical, industrial, and manufacturing applications. SPOKANE INDUSTRIES has over 20 years experience in designing, manufacturing, testing and delivering investment casting solutions world wide.

Our team of experienced engineers, metallurgists and process specialists is available to investigate your production and engineering challenges and design a high quality, high performance, cost effective casting solution. This includes conversions of fabrications to castings, improving existing castings, or developing a completely new product.

By collaborating with you on design requirements, material selection, mechanical properties, finish and inspection requirements, we can ensure the product is right for your application.

We have full in-house design and modeling capability, and rapid prototyping for first articles, R&D projects, limited production runs or to reduce lead times and tooling costs. We also have full in-house heat treat facilities, non-destructive and physical testing and finishing capability to ensure fast turn around time on first samples and on-time delivery for production quantities.

Please contact us for more information or to visit our facility:
(800) 541-3601 Ext. 460 • www.SpokaneIndustries.com

PRECISION INVESTMENT CASTINGS

Services & Capabilities

PRODUCTION

- From a few grams up to 45 Kg (99lbs.)
- Thousands of units per week

Commonly Poured Alloys:

• Stainless Steels *300, 400 SERIES & 17-4*	
• Carbon Steels	• Tool Steels
• Low Alloy Steels	
• Lead-free Copper Base Alloys	• Most other air melt steels

In-House Heat Treat (Normalizing, Quenching, Annealing):

- Tilt up ovens surveyed per AMS 2750, certified to +/-25 Deg F
- Quench system: immediate transfer from oven to quench tank with full agitation and temperature controls, less than 30 SEC. Transit time from opening oven to full submersion in quench tank with full agitation.

Support Services:

- Quick turnaround samples
- Prototype Runs

In-House Machine Shop

Reliable partners for outsourcing alternative heat treat and all appropriate finishing operations.

QUALITY ASSURANCE

Radiographic:

- Iridium and Cobalt sources
- Traditional Film Images
- Digital Images

Magnetic Particle:

- Wet continuous fluorescent AC/DC
- Dry Powder AC/DC

Mechanical Property:

- Charpy V-Notch Impact Testing (to -50˚F)
- Tensile Testing

Dimensional:

- 12” Faro Laser Scan Arm
- 8’ Faro Standard Arm

Chemical:

- ThermoScientific ARL 3460 OES
- Bruker 04 Tasman

Hardness:

- Brinell
- Rockwell

ENGINEERING

Consulting for:

- Fabrication to Casting Conversions
- Product Enhancements
- Design for castability

Modeling Services:

- 3D Modeling

Material Evaluation and Process Development:

- On-site degreed Metallurgists
- Materials Experimentation and Analysis

Industries Supported Include:

- Commercial Manufacturing
- Energy
- Mining
- Pump Manufacturing
- Medical Equipment
- Food Services
- Military (Class II Armor Spec)
- Marine Products