



## Industry-Leading Investment Casting



PENNSYLVANIA  
**Precision  
Cast Parts** INC.

*People. Process. Performance.*





## Pennsylvania Precision Cast Parts – Invested in Your Success

To achieve success in today's demanding, ultra-competitive market, you need an investment casting partner that you can rely on to deliver excellence . . . every time. You need PPCP.

At Pennsylvania Precision Cast Parts (PPCP), we know that our success depends on yours. That is why every member of our team is dedicated to providing the dependable quality, consistent value and exceptional customer experience that have made us an industry-leading investment casting supplier.

For over three decades, the PPCP team of seasoned foundry professionals has been manufacturing top-quality investment castings for an array of industries and applications. We offer a wide range of alloys and high-end capabilities for castings up to 250 pounds to meet the needs of even the most challenging designs and specifications. Our extensive industry experience, technical expertise and rigorous quality-assurance processes ensure that we deliver excellence every time.

At PPCP, everything we do is focused on helping you succeed. Our people, process and performance make PPCP the right investment casting partner for you.





# Advantage

## The PPCP Advantage



### People

When you do business with an investment casting company, you want to work with knowledgeable people you can trust. You can depend on PPCP.

PPCP's casting and metallurgy professionals are among the most experienced in the industry, offering a level of expertise and insight that only comes from decades of hands-on work in the foundry. We know how to get the job done right.

Our PPCP team also goes the extra mile to ensure that doing business with us is a positive, productive experience from start to finish. Our people proactively work to deliver what you need when you need it, and to immediately address any requirements or issues that come up along the way.

### Process

The investment casting process is an age-old technique that is ideal for a wide array of parts and applications. PPCP makes it better.

At PPCP, we have finely honed our investment casting process to produce the highest quality, most consistent parts, from the smallest and simplest castings to highly complex parts up to 250 pounds.

To meet and exceed your expectations of excellence and consistency, we utilize an advanced quality assurance system to track, manage and document production every step of the way. Digital imagery and real-time information are displayed at each station to ensure that castings are manufactured to exact specifications. Throughout the process, vital tracking data is recorded, and changes are documented. Our PPCP process enhances a fundamental casting technique with today's advanced technology.

### Performance

Good intentions and best efforts are commendable, but when it comes to your investment castings, the bottom line is performance. PPCP delivers it.

At PPCP, we have the exceptional people and advanced processes necessary to deliver the precise specifications you require for your castings – every time for every part. Quality is designed into our investment castings right from the beginning and is tracked throughout the process to ensure the dependability you need and expect from PPCP.

Through our real-time order tracking, zero-days-lead-time ordering program and rigorous quality assurance, we achieve an exceptional on-time delivery record. Delivering what we promise when we promise it is not just a goal at PPCP, it's a way of doing business.



# Capabilities

## Capabilities and Services



Your investment casting partner should be able to provide you with the full range of capabilities and services you need. PPCP can do it.

PPCP has the capabilities and expertise to cast high-quality investment castings in a very wide range of alloys and sizes up to 250 pounds. We can achieve virtually any specifications efficiently and cost effectively, regardless of the dimensions and complexity. We deliver exceptional repeatability and consistency utilizing cutting-edge technology, including advanced robotic dipping stations. For specialized parts or industry requirements, we have complete high-end capabilities.

PPCP's core and value-added services include:

- Design Assistance
- Tooling & Machining
- Plating & Polishing
- Specialized Alloys
- Real-Time Order Tracking
- Rapid Prototyping
- Zero Days Lead Time via Consignment
- Non-Destructive Testing
  - Liquid Penetrant Inspection (LPI)
  - Magnetic Particle Inspection (MPI)
  - Radiographic Testing (RT)
- Metallurgical Testing

PPCP's casting professionals will also work with your team to meet your needs for other specialized capabilities or services.

## Alloys

PPCP can pour precision castings from an extensive array of alloys in these and other categories:

- Stainless Steel
- High-Temp Stainless Steel
- Carbon Steel
- Low-Alloy Steel
- Duplex Alloys
- Precipitating Hardening
- Monels
- Nickel Base
- Abrasive/Tool Steel
- Copper Nickels
- Irons
- Cobalt Base
- Brass/Bronze

Review our Investment Casting Alloy sheet for a list of options, and consult with a PPCP professional about your special needs.





# 8 Reasons

## Why Investment Casting



The investment casting process has existed for over 5,000 years – and for good reason. It offers many advantages over other processes for a wide range of parts, alloys and applications. Here are the top eight advantages of PPCP's investment casting.



### Flexible Designs

Investment casting can accommodate nearly any design feature and utilize a vast array of alloys.

### Range of Alloys

Hundreds of different alloys can be used in investment casting to achieve cost-effectiveness and meet specialized needs. The near-net-shape process greatly reduces the need for finishing, which makes it practical to use a harder alloy, when beneficial.

### Parts Consistency

The wax patterns used in investment casting are produced over and over again from the same tool. This ensures extremely consistent parts that meet specifications and tolerances.

### Surface Finish Quality

Parts come right out of the mold with a very good surface finish, typically in the 125 RMS range.



### Detail and Accuracy

Investment casting can achieve excellent detail and accuracy – +/- 0.005 inch per inch. Very little additional machining is necessary for details and features.

### Lower Production Costs

Investment casting's near-net-shape parts require less machining; its tooling is less expensive; and the tools have a longer life than other processes.

### Less Waste

The near-net-shape of investment casting requires very little machining, which minimizes material waste.

### Less Process Time

The time it takes to go from initial concept to production utilizing the investment casting process is less than other production options. Products can get to market sooner, and companies can be more responsive to changing market requirements.





**Getting  
Started**

# Customers

## Industries

**When you work with an investment casting partner, you want a company that already knows what you need. PPCP is ready to go, right out of the blocks.**

PPCP has the experience, capabilities and track record to meet the wide-ranging needs of diverse industries. While we have partnered with companies in many other areas, we specialize in the following:

- Valves
- Process Instrumentation & Controls
- Pumps & Pumping Equipment
- Mining and Oil & Gas Machinery & Equipment
- Air & Gas Compressors
- Power Boilers & Heat Exchangers
- Military/Defense
- Specialized Hardware
- Structural Components
- Transportation Components
- Medical Equipment

Across all industries, we are proud of our reputation for excellence in investment casting, our exceptional people and processes, and our ability to deliver superior performance to our customers.

At PPCP, we know that making a transition can be a challenge, so we have streamlined the initial setup process to make getting started as quick and easy as possible. Give us a call to find out more, or visit our website for more information and to submit a quote request.

**717.273.3338**  
**[www.ppcpinc.com](http://www.ppcpinc.com)**

**Contact us today to find out how you can benefit from PPCP's people, process and performance. It's the smart investment.**





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