



# LONGTON LIGHT ALLOYS LTD

Suppliers of  
Aluminium, Bronze and Zinc Castings



[www.longtonlightalloys.co.uk](http://www.longtonlightalloys.co.uk)

# LONGTON LIGHT ALLOYS LTD

We are a family owned independent medium sized aluminium and non-ferrous foundry having been established since 1975. We have during this time seen a steady growth in business which we believe is due to our friendly and efficient service, coupled with pride in our products and our positive and forward thinking approach to achieving the highest quality of castings.

## What we can offer your Company

We can offer you a most comprehensive service for the supply of your castings

Including:

- Advice and assistance on material specification
- Advice and supply of applicable tooling
- Full heat treatment facilities
- Advice on the type of moulding process most suitable to your application such as:

### **Green sand mould:**

one of the cheapest methods of producing one-off and small production run castings

### **Resin sand mould:**

suitable for all types of castings

### **Petrobond mould:**

used on master patterns etc to obtain fine detail

### **Gravity die casting:**

for medium to long production runs at minimum costs

In addition we can also offer a comprehensive inspection and NDT testing including:

- X-ray
- Crack detection
- Pressure testing
- Full laboratory material certification
- Full dimensional inspection and reports

*Longton Light Alloys* also has its own on site machining and finishing facilities enabling us to offer our customers a complete one supplier solution from initial design to the finished product

# Company Philosophy

Longton Light Alloys appreciates that the best way to sustain business and build strong partnerships is to learn and understand our customers requirements.

**With experience we have established our business on four main key objectives:**

- **Service**

Customer service is at the top of our list, the customer is the most important part of our business and we will always, wherever possible, provide the right product to suit your requirements.

- **Quality**

Providing castings that are consistently of good quality means working to a goal of excellence.

By implementation of quality control systems such as BS EN ISO 9001 continuous investment in training, plant and equipment we feel that this standard of excellence is applied to every casting we produce.

Customers or potential customers are welcome to carry out 3rd party audits and inspection of our quality control systems.

- **Value for Money**

Longton Light Alloys main aim is to provide good quality castings at a competitive price. We only purchase from approved suppliers allowing us complete traceability of all the raw materials used in the manufacture of our castings.

Unfortunately we have seen too many times where people have taken the option of cheap castings and have suffered the consequences of poor quality and wasted costs.

Longton Light Alloys works to a high standard and then offers this standard of service and quality at a competitive price.

- **Delivery**

One of the keys aspects of what we offer our customers is our commitment to meet delivery times requested. We can offer complete traceability and an extremely flexible service due to our unique capabilities and can offer continuous monitoring of production through our computer based operating systems.

# Aluminium Alloys Sand Casting

Longton Light Alloys is one of the few foundries in the UK equipped to produce castings of up to 2.0 tonnes in weight. We specialise in large tooling applications for the automotive, aerospace and leisure industries, and have developed the casting in of stainless steel tubing which provides a very effective method of introducing heating or cooling elements to the tool during use.

**Longton Light Alloys also produce Aluminium castings for numerous areas in Industry including:**

- Aerospace Engineering
- Automotive Engineering
- Food & Chemical Industries
- Marine Engineering
- Rail Industry
- Architectural
- Film Industry
- Sculptural



Large mould for sculptural casting

Resin sand mould for tooling application



Traditional green sand mould

# Aluminium Alloys Die Casting Division

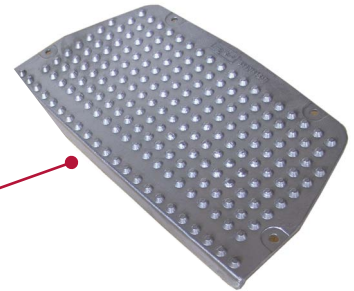
Longton Light Alloys can also offer a Gravity die casting service. Employing the state of the art automatic control electric furnaces which ensure high quality control over metal melting.

Gravity die castings gives us the opportunity to offer our customers the ability to move to larger volumes of casting production utilising permanent moulds to ensure tighter control of dimensional accuracy and quality.

Die casting can offer an extremely economical method of producing large volumes of castings and with our extensive knowledge of this process we can offer you the best solution for your particular application.

Some of the Aluminium Alloys cast at Longton Light Alloys Ltd

- LM4
- LM6
- LM16
- LM21
- LM22
- LM25
- LM27



Die cast footplate for commercial vehicle



Die cast pedal fully assembled for commercial vehicle

Die casting for military applications

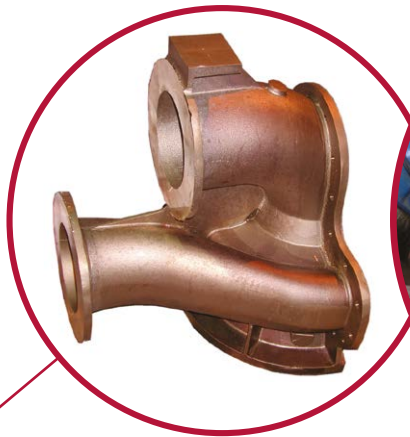
# Copper based / Bronze Castings

Longton Light Alloys produce Copper based Alloy castings to British, European and American standards. We can also work within dual certification standards where applied.

We have the capacity to cast up to 750 kilos in most of the Copper base alloys and specialise in castings for the oil, gas and water industry such as valve and pump bodies. We also supply Copper based castings to a wide spectrum of Industry and have carried some prestigious Architectural projects for major clients carrying out restoration work.

Industries who we have supplied include:

- Aerospace Engineering
- Automotive Engineering
- Food & Chemical Industries
- Marine Engineering
- Rail Industry
- Architectural
- Film Industry
- Sculptural



Pump body



# Zinc based Castings

Longton Light Alloys also cast in a wide variety of zinc based alloy castings up to 5 tonnes ZA2 (Kirkcaldie). This is mainly used for prototype and short run panels for items such as car bodies.

The other zinc based alloys have applications for gravity or sand castings where high strength excellent bearing and wear properties etc are required.

ZA12 has high non sparking properties which is suitable for hazardous applications such as the Mining Industry.

Some of the Zinc based Alloys cast at Longton Light Alloys Ltd

- ZA2
- ZA8
- ZA12
- ZA27



Zinc Anodes for Naval Application



Switch Housing for mining industry  
Fully machined

# Sculpture & Art

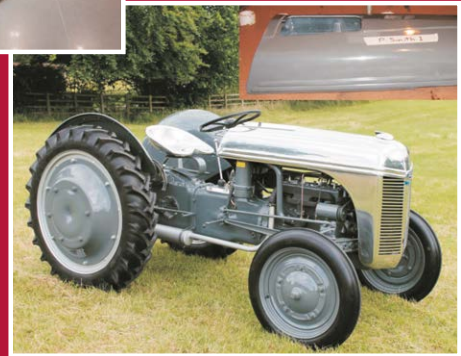
Here at Longton Light Alloys we are asked for some unusual pieces. They consist of a wide range of different sculptural and heritage pieces made in Aluminium or Bronze, although we can also create them in Zinc as well.

*Here are a few examples...*



# Heritage & Restoration

From plaques to stanchions to the bonnet of a tractor, we have made various castings for Heritage and Restoration projects including different parts for listed buildings such as window frames and latches.

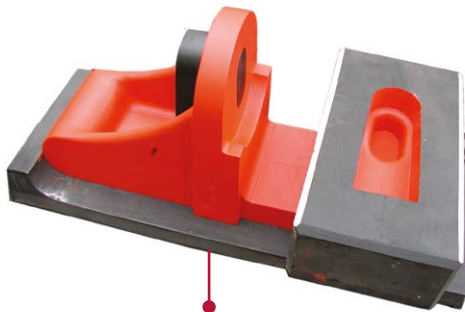


# Machining Services

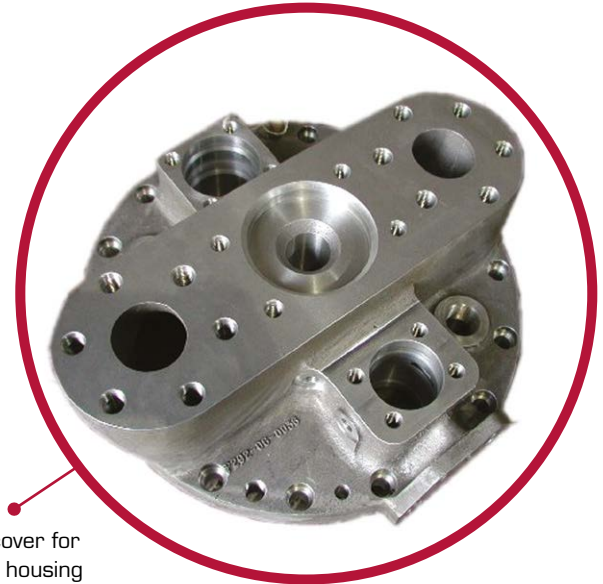
Longton Light Alloys is part of a small group together with our sister company Gladstone Engineering.

This provides our foundry with access to a full range of facilities including fabrication machining, assembly and finishing such as Spray painting or Powder coating .

Our on site machine shop can offer a full machining service including centre lathe turning, boring and milling. We can offer proof machining of castings or full machining to drawing. We also work closely with a list of approved suppliers who can provide Tool making, Pattern making and CNC machining.



Pattern & Core box



End cover for pump housing

# Finishing Services



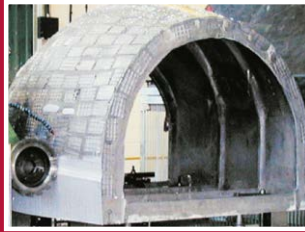
Inspection

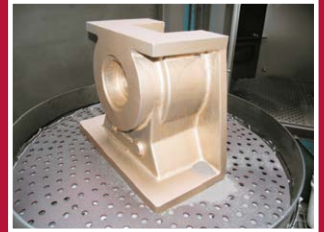
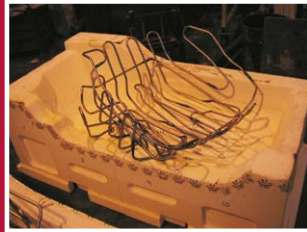
Assembly & Powder Coating Facilities



Polishing

# Gallery





bsi.



# Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

Longton Light Alloys Limited  
Foxley Lane  
Stoke-on-Trent  
ST2 7EH  
United Kingdom

Holds Certificate Number: Q 06071

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

**The manufacture of non ferrous castings and supply of ferrous castings.**

For and on behalf of BSI:

  
Andrew Launn, EMEA Systems Certification Director

Original Registration Date: 1989-05-01  
Latest Revision Date: 2018-10-08

Effective Date: 2019-01-01  
Expiry Date: 2021-12-31

Page: 1 of 1



...making excellence a habit.™

This certificate may be used electronically and remains the property of BSI and is bound by the conditions of contract.  
An electronic certificate can be administered [online](#).  
Printed copies can be validated at [www.bsigroup.com/ClientDirectory](https://www.bsigroup.com/ClientDirectory)

Information and Contact: BSI, Standards Court, Davy Avenue, Stockley Park, Milton Keynes MK5 8PP. Tel: +44 345 030 3000  
BSI Assurance Ltd Limited, registered in England under number 7905321 or 389 Chiswick, High Road, London W9 4AL, UK.  
A member of the BSI Group of Companies.

# LONGTON LIGHT ALLOYS LTD



Foxley Lane | Milton | Stoke on Trent | ST2 7EH  
t: 01782 536615 | e: info@aluminium-castings.com

[www.aluminium-castings.com](http://www.aluminium-castings.com)  
[www.gladstone-engineering.com](http://www.gladstone-engineering.com)  
[www.longtonlightalloys.co.uk](http://www.longtonlightalloys.co.uk)



LONGTON LIGHT ALLOYS LTD