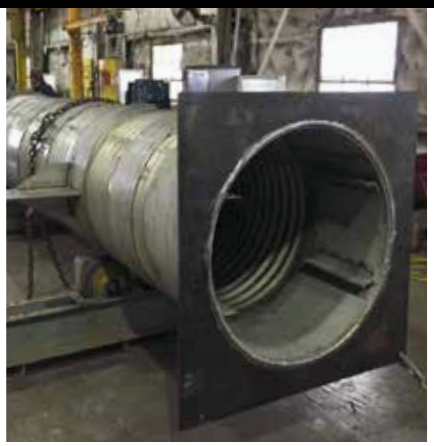
# MUFFLES



## MUFFLES

Alloy Engineering specializes in the manufacture of OEM and replacement Furnace Muffles for many types of furnaces. Regardless of furnace make, Alloy Engineering can meet your exact specifications. As a diverse fabricator, Alloy Engineering has earned a world-class reputation for manufacturing high-temperature furnace muffles. Our custom designs are each specifically designed for optimum performance and life.

- We engineer both corrugated and smooth wall muffles of the highest quality at a competitive cost
- We are capable of fabricating muffles from 5" to 100" belt widths and 16 gauge to 3/4" wall thicknesses
- Experienced in fabricating a wide range of alloys including 309, 310, 330, 333, 600, 601, RA602CA, HR120, HR230 and others
- Repairs and rebuilds of existing muffles are often recommended as a cost saving alternative

## Applications:

Alloy Engineering provides muffles, in a variety of application-specific configurations and an assortment of accessories, designed to meet or exceed performance requirements, extend component life and minimize costs.

- Gas, electric, and direct-fire atmosphere furnaces
- Sintering, annealing, tempering
- Brazing, heat treating
- Replacement furnace muffles
- Hearth plates

## BENEFITS OF ALLOY'S FABRICATED MUFFLES:

- Extensive experience in all stainless and high nickel alloys
- Proven record of superior tube life
- Welded to ASME/AWS standards
- Testing to verify quality when required, including dye-penetrant, pressure testing, x-ray, etc.
- Our ASME-CE's will provide recommendations to extend tube life

**Reduced Maintenance • Longer Life • Lower Life-Cycle Cost**

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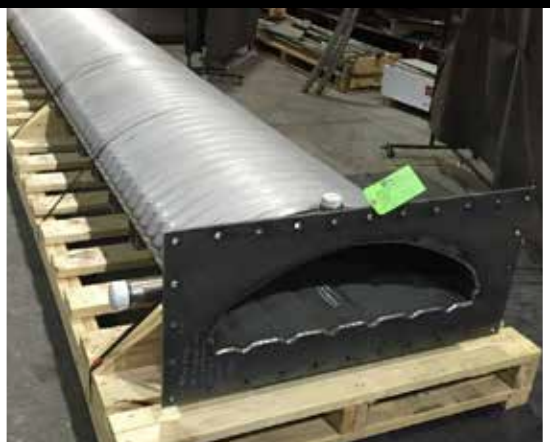

## Industries:

Alloy Engineering muffles are operating throughout the world in some of the harshest furnace environments in industries including:

- Transportation
- Petrochemical
- Rod, wire and nonferrous mills
- Powdered metals
- General manufacturing
- Pulp and paper
- Primary metals
- Carbon fiber
- Heat treating
- OEM product design
- Plant engineering, MRO

## Engineering Advantage and Design Flexibility

- Our engineering team analyzes and evaluates the many factors influencing long-term muffle performance in harsh, high-temperature furnace environments.
- Based on your needs, we will determine the optimal muffle, including material selection, muffle profile, and corrugation selection.
- Whether the material is stainless steel or nickel-alloy steel, titanium, aluminum, or special bi-metal composites, we have the specialized equipment and expertise to economically produce muffles.
- When a muffle needs to be replaced, we'll make a replacement exactly to your specifications, or custom design your muffle based on temperature, atmosphere and product requirements.
- Pre and post weld inspection

## DESIGN FLEXIBILITY:

Alloy Engineering pioneered the development of rolling, forming and welding techniques to ensure the highest quality, most durable continuous furnace muffles available. When a muffle needs to be replaced, our experienced team will manufacture a replacement to meet all specifications, or custom design your muffle based on temperature, atmosphere and product requirements.

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