



Manufacturer  
of fluidised bed  
**heat treatment furnaces.**

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# Fluidised Bed Heat Treatment Furnaces

## LT-20-100



### Small Low Temperature Fluidised Bed Furnace

#### SPECIFICATIONS

Kilowatt Rating: 15 kW  
 Diameter: 200 mm  
 Depth: 1000 mm  
 Max Temp: 650 °C

#### USED FOR

- Tempering
- Pre-heating

#### ADVANTAGES

- Ideal for medical components.
- Great for small tool rooms.
- Low capital investment.
- Temperature uniformity  $\pm 3^{\circ}\text{C}$ .

## LT-40-100 / LT-60-100



### Large Low Temperature Fluidised Bed Furnace

#### SPECIFICATIONS

Kilowatt Rating: 36-50 kW  
 Diameter: 400-600 mm  
 Depth: 1000 mm  
 Max Temp: 650 °C  
 (HT models up to 1100 °C)

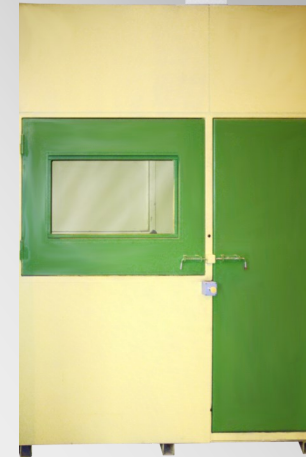
#### USED FOR

- Tempering
- Pre-heating
- Stress Relieving
- Hardening (HT models)

#### ADVANTAGES

- Ideal for preheating forging dies
- Easily integrated into existing heat treatment furnace line.
- Complies with AMS 2750E.
- Temperature uniformity  $\pm 3^{\circ}\text{C}$ .

## LTN-30-100



### Enclosed Low Temperature Nitriding Fluidised Bed Furnace

#### SPECIFICATIONS

Kilowatt Rating: 25 kW  
 Diameter: 300 mm  
 Depth: 1000 mm  
 Max Temp: 650 °C

#### USED FOR

- Tempering
- Nitriding / Nitrocarburising

#### ADVANTAGES

- Ideal for heat treatment shop.
- Integrated hoist system.
- Safe and clean operation.
- Complies with AMS 2750E.
- Temperature uniformity  $\pm 3^{\circ}\text{C}$



#### BESPOKE FURNACES

Using our years of heat treatment experience, Clayton Thermal Processes Ltd can also design and manufacture a fluidised bed furnace to your specific needs and specification.

Past projects include a 1.3 metre diameter by 2 metre deep furnace, considered the largest of its type ever manufactured, as well as a bed capable of continuous heat treatment of strip.



#### SUB CONTRACT HEAT TREATMENT SERVICE

Clayton Thermal Processes Ltd can also offer a sub contract heat treatment service through its sister company Beta Heat Treatment Ltd.

As a dedicated fluidised bed heat treatment shop, Beta Heat Treatment acts as a showroom for our equipment and we encourage customers to visit to see the technology in action.



#### SERVICING

A service plan can be provided by Clayton Thermal Processes Ltd where a specialist engineer will ensure your furnace is always running at its maximum efficiency.