

ALUMINIUM
HEAT TREATMENT
& HANDLING
TECHNOLOGY

**BILLET HOMOGENISING
FURNACES**

SLAB HEATING FURNACES

**SOLUTION HEAT
TREATMENT FURNACES**

COIL & FOIL ANNEALING



suppliers of standard plant
or custom designed
to suit individual requirements

Mechatherm International Limited






applying the heat



BILLET HOMOGENISING FURNACES

Mechatherm International Limited supply a wide range of batch type Homogenising Furnaces, Cooling Chambers and Charge Machines.

Features Include:

-  Reversing air flow.
-  $\pm 3^{\circ}\text{C}$ temperature tolerances.
-  SCADA control systems.
-  In-house charging machine designs.
-  Automated load mechanical handling gear.



 2 x 35t Homogenising Furnace & Cooling Chamber







 50t Rotating Charging Machine



SLAB HEATING FURNACES

Mechatherm have considerable experience with rapid heating of all types of plate and slabs.

Current features of the latest generation of furnaces include:

-  Close temperatures catered to $\pm 2^{\circ}\text{C}$ where required.
-  High powered recirculation fans for rapid heating.
-  Invertor control of fans to enable reversing air flow and uniform heating.
-  Full SCADA control systems.



 140t Slab Soaking Pit



 Slab Heating Furnace Control System Graphics



Bogie Type 20t Homogenising Furnace & Cooling Chamber



12t Homogenising Furnace & Cooling Chamber



Continuous 40t/hr Slab Pusher Furnace with Charge and Extract Gear



75t Precipitation, Annealing and Homogenising Furnace with Forced Air Cooling



20t Batch Homogenising Furnace

WHY MECHATHERM INTERNATIONAL LIMITED?

- Experts in furnace technology and practices
- State of the art equipment to suit individual production requirements
- Projects involving either continuous or batch processes
- Either standard plant or custom designed
- Full Turnkey or part supply - **Worldwide**
- **A team with unrivalled experience, knowledge and support**



Re-Build of a 25t Precipitation Hardening Furnace





SOLUTION HEAT TREATMENT FURNACES

Mechatherm Solution Heat Treatment Furnaces include the following features:

- Traversing furnaces over load stations and quench tanks
- Vertical quench system with rapid quench time.
- Rapid opening clamped sealing door system.



Forging & Extrusion Solution Heat Treatment Plant with Moving Furnace & Double Heated Quench Tanks



Aluminium Cable Solution Heat Treatment Furnace and Quench



Aerospace and Hard Alloy Solution Heat Treatment Plant with Moving Furnace and Quench Tanks

COIL & FOIL ANNEALING

Mechatherm Coil and Foil Annealing Furnaces include the following features:

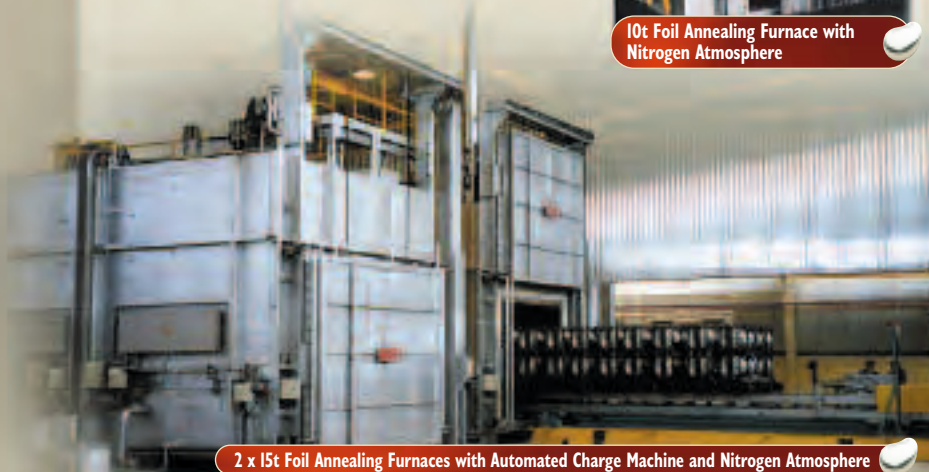
- Gas tight construction
- Uniform heating and cooling
- Nitrogen atmosphere
- Double seal clamped door system
- Electric or radiant tube gas fired



Charging Machine - 96t 12 - Zone Coil Annealing Furnace with Jet Flow Air Recirculation System



10t Foil Annealing Furnace with Nitrogen Atmosphere



2 x 15t Foil Annealing Furnaces with Automated Charge Machine and Nitrogen Atmosphere

designed & produced by Charles Design Studios 01384 400114 NJC6699



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