

All the way with you in your heating projects





Design and manufacturing of electrical heating equipment for your industrial process

Technologies

- Magnesium oxyde insulation
- Boron nitrid insulation (18 to 150 W/cm²), high flux, very high performance (VHP)
- Induction
- Ceramic
- Infrared

Applications

- Heating liquids
- Heating gases
- Heating biphasic fluids (vaporization)
- Heating solids
- Space heating
- Heating mixtures

Operating environments

- Normal (non-ATEX)
- Hazardous areas (ATEX/IECEx)
- Extreme environments: 60°C to + 80 °C
- Fluid/solid: from 270 °C (3 K) to 1000 °C
- Onshore / Offshore
- Helium testing
- Pressure: 250 bars

Worldwide partner network



Industrial sectors

- Engineering industry Machine tools
- · Plastics industries
- Petrochemicals
- Gas companies
- Oil companies
- Packaging
- · Power generation plants
- Heat transfer
- Building and civil engineering
- · Aeronautics Laboratories R&D
- Food service equipment industry
- Chemical and pharmaceutical industries
- Transportation
- Nuclear

Certifications











Qualifications and construction codes

- EN
- ASME
- CODAP
- API

Benefit from the CETAL advantages!



experts since 50 years!



Design and manufacturing Calculation and design tools specifically developed for industrial heating applications



End-to-end control of design and production chain for products which suit your process perfectly



Benefit from the CETAL know-how to optimize your process and reduce costs!





Catalog products





Products according to specifications





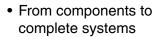


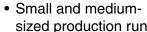
Ribbed heating

Industrial electric convectors



• Design and manufacturing according to your specifications











Boron nitrid

technology (VHP*)

Removable

immersion heaters



Cast-in

heating elements

sized production runs



Circulation







Engineering, R&D

- Design and manufacturing according to your specifications
- From components to complete systems
- Research and development





Immersion heater for maintaining a constant temperature in oil sumps of railway traction engines



Gas regeneration, 2.5 MW



Circulation heater for heavy fuel in power plant



Air duct heater, storage facility heating for critical products on a petrochemical plant



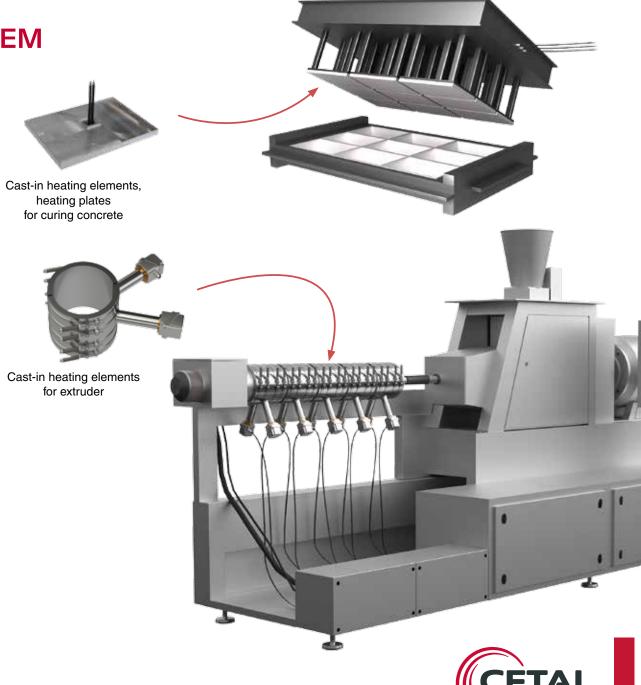


Products for integrators and OEM

Heating elements by CETAL are included in many products and machines such as 3D printers or extruders in plastics or food industries.

Active in all industry sectors, our customers have chosen CETAL quality and service.







Contact us!

Tel: +33 3 88 06 19 49

www.cetal.com

CETAL, expertise and worldwide network

























42, rue des Aviateurs - F67501 HAGUENAU CEDEX France

Tel.: +33 3 88 06 19 49 - Fax: +33 3 88 06 19 30 - E-mail: contact@cetal.fr - www.cetal.com



www.cetal.com