

# CEIA Induction Technology for HEAT TREATMENT APPLICATIONS



**INDUCTION HEATING TECHNOLOGY** is widely used for heat treatment applications. CEIA Generators are very suitable for Induction Hardening, Forging, Localized Heating, Annealing.

Thanks to continuous investments in research and development of new components, CEIA is able to guarantee its partners a range of induction Generators which are characterized by high energy efficiency, stability of output power, friendly use and ease integration on automatic production lines.

## CEIA Induction Heating Systems

**CEIA Induction Heating Systems are today used for all heat treatment applications in the following industries:** automotive, aerospace, fastener, construction, military, medical and semiconductors.

**The stable output power and the extremely accurate temperature feedback control offered by CEIA devices** allow the heating to be precise and localized only to the area of interest, safeguarding the metallurgical characteristics of the sample, increasing the quality of the product, reducing production times and costs.



► **HARDENING**



► **BRIGHT ANNEALING**



► **LOCALIZED HEATING FOR FASTENERS**

## ADVANTAGES

- ✓ CEIA offers a complete line of Power Cube high and medium frequency Generators, with an output power from 2kW to 200kW.
- ✓ The Master Controller V3+ interfaces with all CEIA Generators managing all the working parameters during the heat treatment process.
- ✓ Using the SLE pyrometers it is possible to monitor the heating temperature and regulate the power of the generator in less than 0.5ms.



[www.ceia.net](http://www.ceia.net)



## Full repeatability and quality control of the process

Thanks to solid state technology and the use of latest generation microprocessors, **CEIA induction Generators guarantee linear and constant output power regulation**. All Generators are supplied with calibration certificate.

Furthermore, the integrated web server and data logger system allows to monitor and record all parameters during the heat treatment process for product quality control.

2013-03-12 14:51:22:759  
 Temperature°C: 491.6  
 SetPoint°C: 492.3  
 Diagnosis: 0  
 Tolerance+°C: 512.3  
 Tolerance-°C: 472.3  
 Power %: 16  
 Step: 4



► STEEL BILLETS FORGING FOR AUTOMOTIVE INDUSTRY



► FORGING APPLICATION FOR CONSTRUCTION INDUSTRY



► LOCALIZED HARDENING FOR AUTOMOTIVE INDUSTRY



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*CEIA reserves the right to make changes, at any moment and without notice, to the models (including programming), their accessories and options, to the prices and conditions of sale. FC040K0199v1000hUK - 2023*

