

Induction Heating Electrical System for Metal Treatments:

Electromagnetic Induction Heating System for Surface Treatment of Metal Parts (Steel Surface Hardening).



Photo of the System

High-Frequency Electromagnetic Induction Generator (10-30 kHz, 1-3 kW) with Digital-Control for Metals Treatment.

- Description of the technological product:

This product is a helping tool to the mechanical manufacturing, a new technological generation, intended to local and contactless heat treatment processes of strong metals up to 3 kW, frequency 10-30 kHz. This product is marked with quickness, efficiency, non pollution and a shorter heating time and adjustable to hardening temperatures up to 900° C, with 12° C/s gradient, and with a surface temperature control whose penetration depth is 1-3 mm. It is perfectly adapted to the treatment of varied mechanical parts, thanks to inductors designed for this purpose, for small and medium sizes and any other shapes (pebbles, bolts, pinions,...etc.). This treatment is validated by standard hardness tests performed on metal samples. This product is equipped with a digital control, an efficient cooling with a variable water flow according to temperature, with an optimum performance up to 90%. Its use can be extended to the manufacturing of metal alloy ranging from 900-900° C.

- For further information, please contact: evaluation@atrst.dz
- Tel. 021 52 60 98.