

# HC Crankshaft Hardening installation

The HC installations are specially designed for crankshaft induction heating and allow big series heat-treatment and integration in automatic manufacture line.

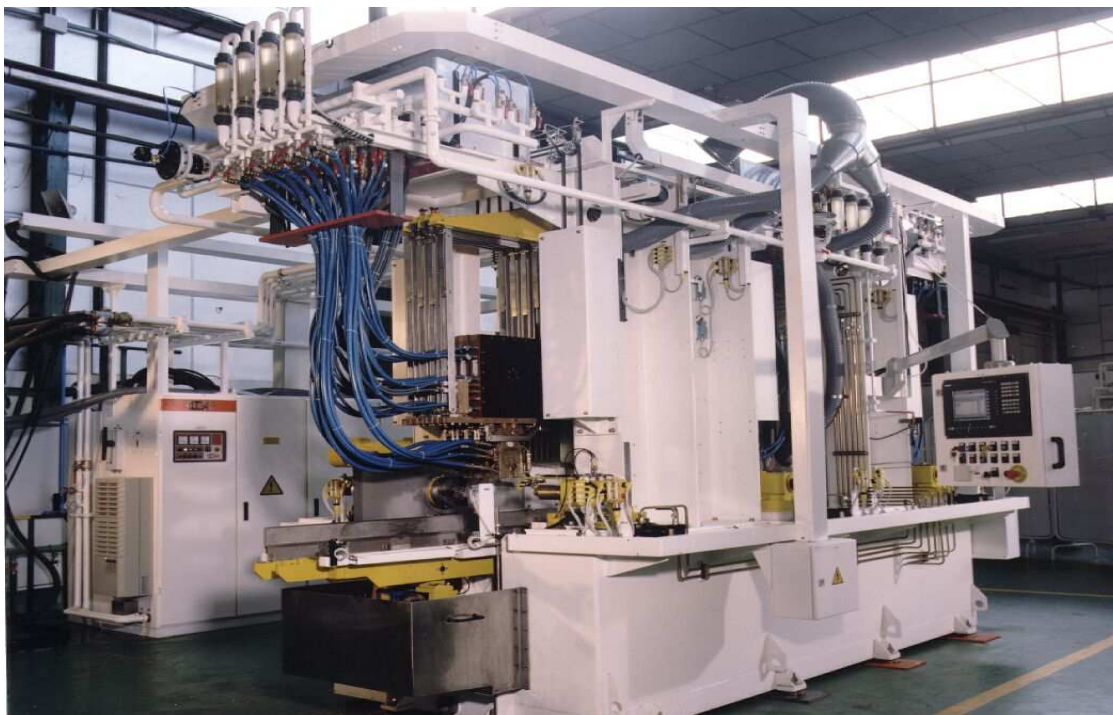
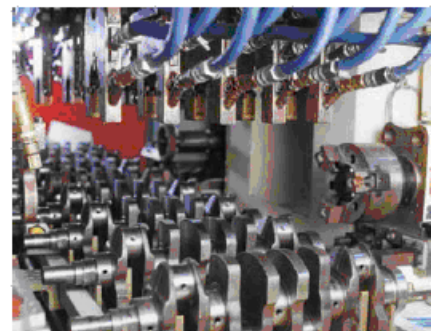
In the crankshafts are superficially hardened by induction: the supports, the journals, with or without radio, end and plates. Frequently, the hardened parts tempered later, either by induction, in the same machine, or by an electrical furnace of continuous running

Depending on the required productions, the installations can be semiautomatic, with manual load and unload, or completely automatic.

In both cases, the parts hardening are automatic under the control system supervision that assures an accurate, repetitive and controlled quality.

A suitable selection of power equipments and machine configuration allows obtaining productions up to 100 parts / hour approximately.

HC equipments can be fitted with load and unload devices, facilitating their insertion in any lines of automatic manufacture.



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## Standard characteristics:

- Induction heating equipment: TRANSITHERMIC transistors generator, inductor and oscillator.
- A heating equipment cooling system.
- A hardening liquid cooling system.
- A numerical control system.
- A HC handing machine.
- A manual or automatic load and unload system.

## Options:

Multiple complementary devices extend the HC hardening installation fields of applications, some of the most common are:

- Heating equipment for tempering.
- Automatic load system.
- Centralized lubrication.
- Smokes and steams aspiration and treatment.

