

# Horizontal HS scanning Hardening installation

The horizontal scanning induction hardening of axes, semi-axes, steering racks and similar parts allows the automatic big series heat-treatment and simplifies its integration in the automatic manufacture lines.

The scanning hardening contributes a great flexibility to the process and allows treating parts of different lengths and similar diameters with the same inductors.

In the HS equipments, the parts hardening is automatic two by two or three by three, under the automatic supervision by the means of the numeric control system of the treatment parameters that assures an accurate, repetitive and controlled quality.

The HS equipments can be fitted with load and unload devices, facilitating their insertion in any lines of automated 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 2 or 3 axes Hs handling machine.
- An automatic load and unload system.

## Options:

Multiple complementary devices extend the HS 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.

