

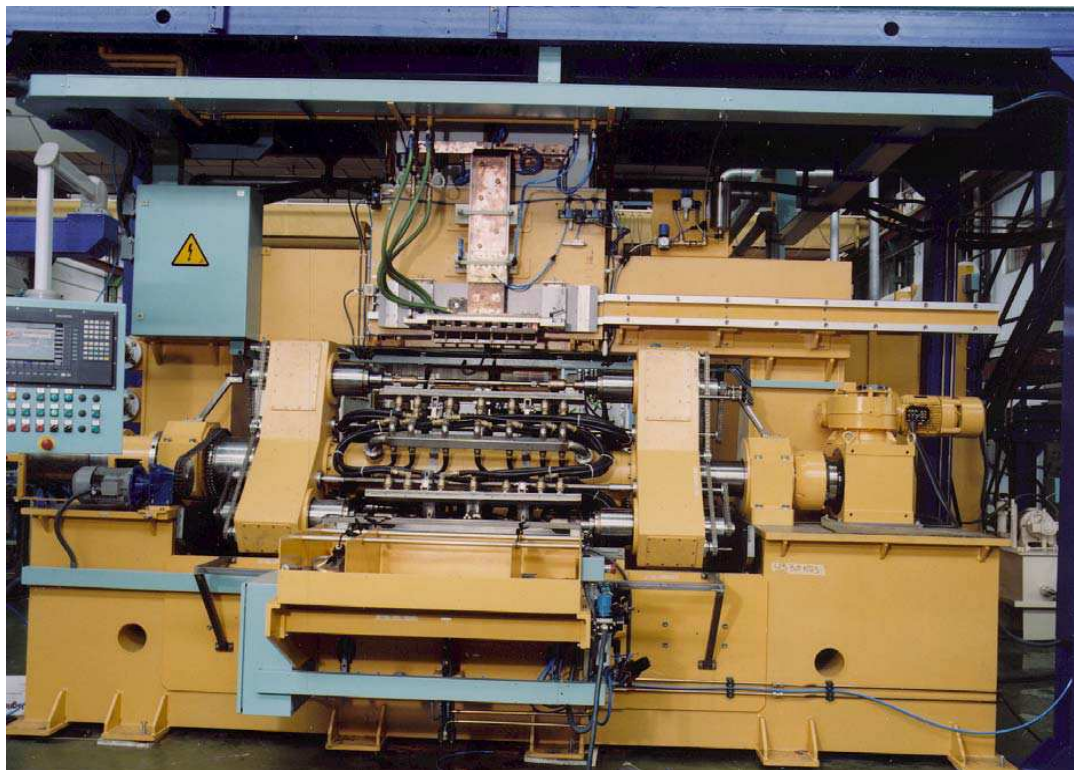
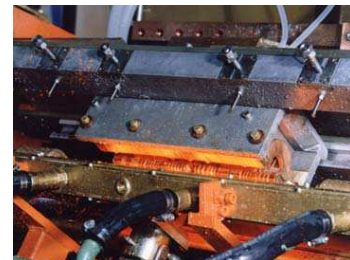
# Hardening installation TVR horizontal HE “single shot”

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

The "single shot" hardening allows the treatment of any geometric figure and the treated zone localization.

In the HE equipments, the parts hardening are automatic under the automatic supervision by the means of the numeric control system of the treatment parameters that assures an accurate, repetitive and controlled quality.

SR equipments can be fitted with load and unload devices, that allow 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 stars or an axe HE handling machine.
- A manual or automatically load and unload system.

## Options:

Multiple complementary devices extend the HE hardening installation fields of application, some of the most common are:

- Heating equipment for tempering.
- Variable turning speed.
- Centralized lubrication.
- Smokes and steams aspiration and treatment.

