

Vertical induction hardening installation. TVT

TVT type vertical induction hardening installations give great versatility in processing part of very diverse dimensions and characteristics.

The equipment is able to perform treatment of parts by scanning or single shot, with or without rotation.

Several complementary devices extend the fields of application of the TVT universal hardening installations:

- Double point for simulation hardening of two parts
- Double column
- Straightening rollers for thin parts
- Rotating steady rest for parts without upper securing
- Auxiliary support for heavy parts loading
- Variable rotating speed
- Horizontal servo-controlled inductor movement
- System for gear wheels hardening tooth by tooth
- Central lubrication
- Displaced axis for large-sized parts
- Loading table for special parts
- Exhauster and oil mist collector
- Access door by pneumatic driven
- Automatic loader



Heating detail



Lunette straightener



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Standard characteristics:

- Induction heating equipment (Transithermic transistor Generator, inductor and oscillator)
- Cooling system for the heating equipment
- Cooling system for the hardening liquid
- CNC for the induction shift
- TVT handling machine

Features of TVT Machine:

- Maximum length of parts: 1.000, 1.500 and 2.000 mm (depending on versions).
- Length of the hardening area: 1.000, 1.500 and 2.000 mm (depending on versions).
- Maximum weight of parts: up to 50 or up to 150 kg (depending on versions)
- Parts diameter: up to 500 mm or up to 750 mm (depending on versions)
- Inductor speed: up to 12000 mm/min

