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# ALO 705

## ALO 705

Induction heating for gearbox parts



THE SYSTEM COMPRISES:

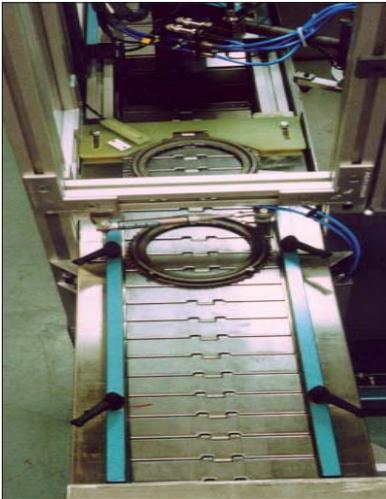
- Hardeing generator
- Inductor with quenchant shower
- Closed cooling system for generator and inductor
- Cooling and circulation system for quenchant
- Automatic loading and unloading system



## MACHINE DESCRIPTION



*Hardening inductor*



*Automatic loading and unloading system*

### Inductors with cooling shower

The inductor consists of a circular working coil and a cooling shower which are assembled to one unit surrounding the synchronizing cone. The unit is made of thin-walled copper pipe and with water cooled working coil. One inductor is required for each synchronizing cone. The connection to the power outlet of the generator has a design that enables a rapid and simple exchange of the inductor.

### Automatic loading and unloading system

A double-armed manipulator, 90° between the arms, picks up the cones from a fixed position on a conveying belt of 850 mm length and delivers the cones on a equivalent band with similar movement.

Each arm is equipped with a vertically adjustable, expanding gripping fixture. A feeding device with a vertically adjustable plate rotates 180° and places the cones into the inductor against a stationary rotating fixture, which is adjustable/replaceable for the two differentsizes of the cones. The stationary fixture is run by a DC motor.

The feeding device and inductor with cooling shower is enclosed in a tank of stainless steel. A magnetic valve in the tank controls the flow to the cooling shower and the drain for re-circulation of quenching.

## TECHNICAL SPECIFICATION:

Hardening generator:	80 Kw
Air pressure:	6.3 bar                      91 psi
Standard voltage:	400VAC $\pm$ 10% 3-phase, 50-60 Hz $\pm$ 1% directly earthed system, other voltages available upon request.

Other customer requirements may be discussed between customer and ALO.

