



**OVERVIEW | STATUS OF 12/2017 | E
VACUUM TREATMENT**

Vacuum hardening
Vacuum annealing

Dimensions:
max. 2000 mm x 6000 mm

Vacuum carburising
Low pressure carburizing

Solnit A | Solnit M
Deep Cooling | Age hardening

PRECISE!

Heat treatment is carried out in our modern vacuum furnaces primarily for materials which have to satisfy particular dimensional accuracy requirements, such as precision components, tools and mould components.

We have perfected vacuum hardening in recent years. It is environmentally friendly, clean and also economic thanks to modern programmable control systems which ensure full reproducibility. In all cases, the treated workpiece is given a bright metallic surface.

There is no comparable process when dimensional accuracy and minimal distortion are required.

As well as vacuum case-hardening / low-pressure carburising and deep cooling, the use of our new, high-capacity, Ipsen vacuum furnace enables us to provide to new different variations of the process.

The SolNit®-M process is suitable, among other things, for stainless steel roller bearings and tools for the medical industry, and for processing foodstuffs and polymers. It is also suitable for wearing parts in material preparation and chemical engineering and in pump manufacture.

The SolNit®-A process comes into consideration for flow machines, such as pumps, turbines and the associated fittings, as it significantly increases the resistance to cavitation and erosion.

ADVANTAGES:

- Oxidation-free surfaces and structures
- Dry, metallically bright components
- No laborious cleaning procedures
- Minimal dimensional and shape changes
- Extremely precise temperature control possible

ANWENDUNGEN:

- Precision components
- Tools
- Mould components

WERKSTOFFE:

- Heat-treatable steels
- Bearing steels
- Special steels
- All heat-treatable steel alloys