Vacuum hardening | Case hardening | Salt bath hardening | Quenching | Annealing
Burnishing | Phosphating | Gas nitriding | Nitrocarburising | Carbonitriding
Plasma nitriding | Salt bath nitriding | Oxidation | Inductive hardening
THE PROCESS

Today, vacuum hardening is an indispensable part of a modern quality hardening shop. Vacuum technology meets the highest demands for surface quality and mechanical properties of your components. Changes in shape and dimensions (warping) are reduced to a minimum. Vacuum technology is therefore particularly well suited for both premium precision tools and for demanding machine components with low machining allowances.

The continuous heat treatment in the vacuum creates finish qualities that are essential for PVD and CVD coatings.

BENEFITS

- economic and environmentally friendly hardening process
- high process safety
- low dimensional changes and warping
- scale-free, metallically pure surface
- reproducible results

SUITABLE MATERIALS

COLD WORK STEELS  e.g. 1.2080, 1.2363, 1.2379, 1.2436, 1.2601, 1.2767, Vanadis 4, Vanadis 10, CPM 9 V, etc.
HOT WORK STEELS  e.g. 1.2343, 1.2344, 1.2365, 1.2367, 1.2606, 1.2714, 1.2744, 1.2855, etc.
FAST WORK STEELS  all with no exceptions, including PM steels e.g. ASP 23, ASP 30, CPM Rex M 4, CPM Rex T 15, S290, S390 etc.
CORROSION-RESISTANT STEELS  e.g. 1.2083, 1.2316, etc.

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