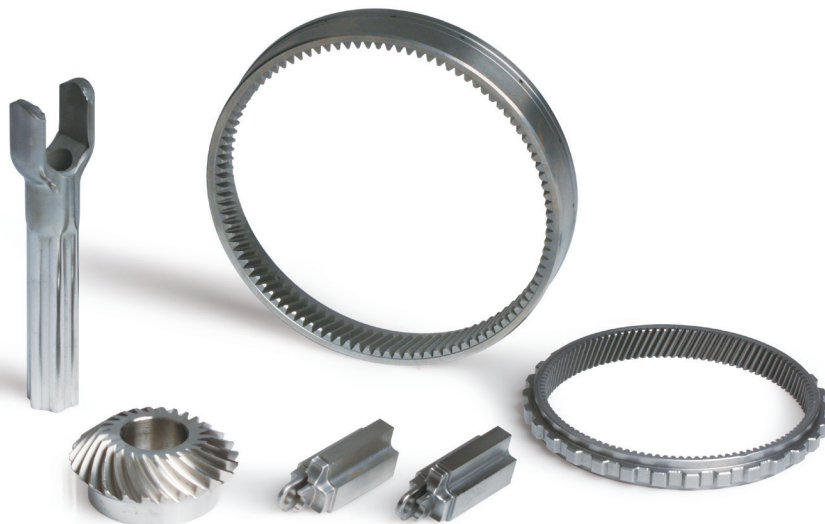


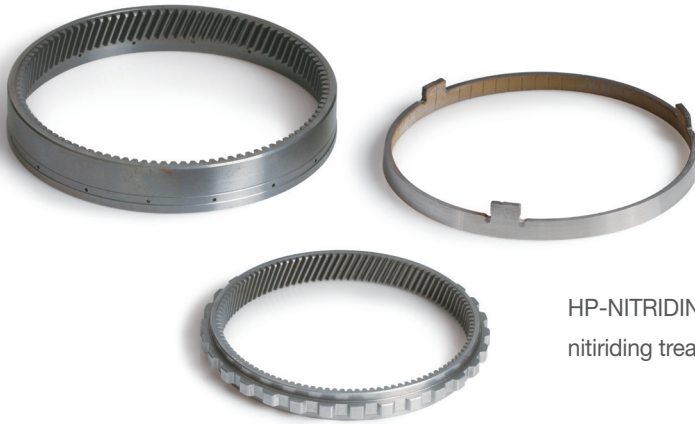
HP-NITRIDING™



High Density Plasma / Inner Wall Nitriding

Eco-friendly · high-speed nitriding treatment technology by high density plasma



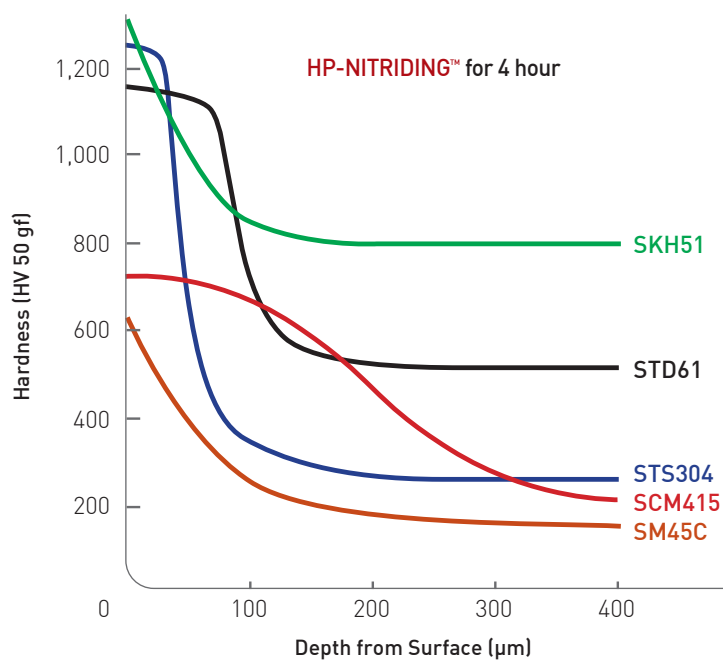


HP-NITRIDING™ is an eco-friendly technology available to rapid nitriding treatment with high density plasma.

> Characteristics of HP-NITRIDING™

- High-efficiency and rapid process ➡ Quick order acceptance and low nitriding cost
- Enable sufficient nitriding on the inner side of pipe or tube ➡ High efficiency nitriding on inner wall which was impossible by the existed technologies
- No variation of heat treatment ➡ Minimize thermal strain through low temperature process and functional parts-focused nitriding
- Feasible to apply variety materials and configurations ➡ From low carbon steel to high alloy steel
- Customized nitriding ➡ Provides better services to satisfy customer

< Hardness distribution of hardening layer After HP-NITRIDING™ >



> Applications

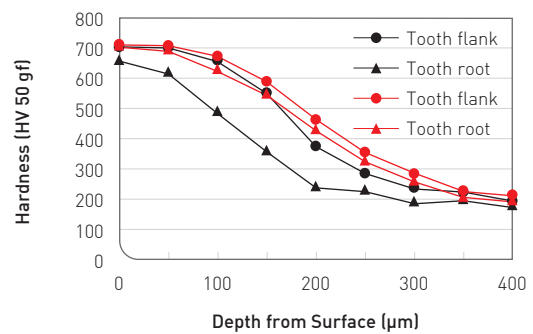
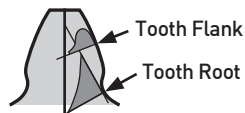
- Vehicle component parts – Ring gears, piston rings, synchronizer rings, yoke pipes and other cylinders.
- Manufacturing tools – Millings, milling cutters, rams, drills, taps, broaches, other molds and punches.
- Sintering parts – Precision gears, bushes and high-alloy sintering parts.

High nitriding rate, high uniformity nitriding effects for diverse parts

► Ring gear for vehicle / SCM415

(●) HP-NITRIDING™ 4hr.

(●) Conventional Plasma Nitriding 20hr.

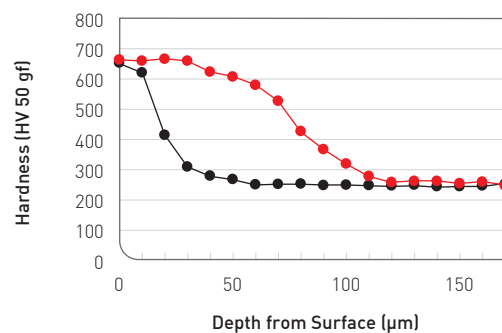


Nitriding effects of pipe's inner wall and tubes with narrow diameter

► Inner wall nitriding of vehicle yoke pipe / SCM415

(●) HP-NITRIDING™ 2hr.

(●) Conventional Plasma Nitriding 12hr.





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