As an example, chain wheels from sintered steel are often nitrided to enhance the wear resistance. As a result of the technological characteristics of sintered metals, plasma nitriding (PLASNIT®) provides significant advantages compared to traditional procedures.

PLASMA NITRIDING PROCESS
Parts are plasma nitried at a temperature of approximately 520° C. Therefore, distortion is reduced to an acceptable minimum. The demand for reproducible results is satisfied by the technology of the system, as well as, the easy masking of the end faces by means of simply stacking the parts on each other. Due to minimal increase of roughness during the plasma treatment, post-processing of the parts becomes irrelevant. In the same way, entirely nitriding through the parts and the resulting problem of embrittlement is not possible with this technology.

ADVANTAGES OF PLASMA NITRIDING
- Excellent dimensional stability with no distortion.
- 100% reproducible results.
- Easy masking of end faces.
- No post-processing of parts after nitriding.
- Parts do not have to be entirely nitried through, in contrast with gas nitriding.

ADVANCED NITRIDING SOLUTIONS
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