



## Hard peeling increases the service life of gear

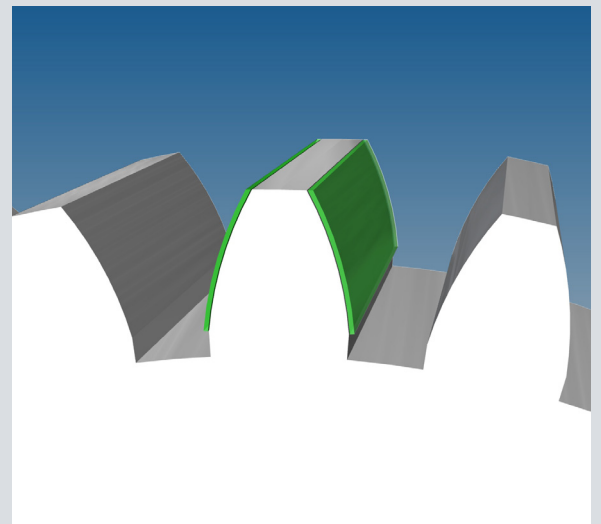
Longer service life and quiet running of gear elements are factors that are becoming increasingly important in current developments. By optimising the quality of the gearing, as well as the surface quality through hard peeling, decisive improvements are achieved.

### More quiet running and better surface properties

The hard peeling finishing process can be used for straight and helical gears and enables to manufacture gears of high quality in a short time. Worm gears as well as spur gears are hardened additionally and the corresponding tooth flanks remilled. Hard peeling eliminates the unavoidable hardness distortions and achieves finer surfaces, resulting in a better surface finish.

Applications with increased demands on installation tolerances and wear are the typical areas of applications for gear components which are produced by hard peeling.

### Editing process for hard peeling



Tooth flanks during hard peeling: Hobs with different profiles remove about 0.08 to 0.12 mm after hardening.

### Data & facts about hard peeling at Nozag's

- > Application range: Module 1.0 to 2.5
- > Increased gearing quality up to Q6
- > Better surface quality (up to Ra 0.15)
- > Surface hardness up to 60HRC possible
- > Increased running smoothness for gears
- > More flexible production possibilities
- > Shorter delivery times compared to ground components