

oerlikon
balzers

primeGear

A customised service to realise unmatched gear cutting tool performance



Cutting Tools



Close cooperation and innovative service reduce production costs by up to 40%

primeGear offers you a higher process reliability, less tool wear, longer tool life and reduced cycle time. The result: production cost reduction of up to 40%. Together with you we identify and eliminate the weak links in the tool life cycle:

- Surface treatment
- Cutting process
- Tool handling
- Resharpener

The primeGear service package includes consulting and process optimisation as well as tailored tool treatment

Consulting & Optimisation + Tailored tool treatment = primeGear 

Process analysis and optimisation

Analysis of tool wear and resharpener quality

Analysis of tool life cycle and production costs

Tool inspection and quality control

Tailored surface pre-treatment

Perfect edge preparation

Tailored post-treatment

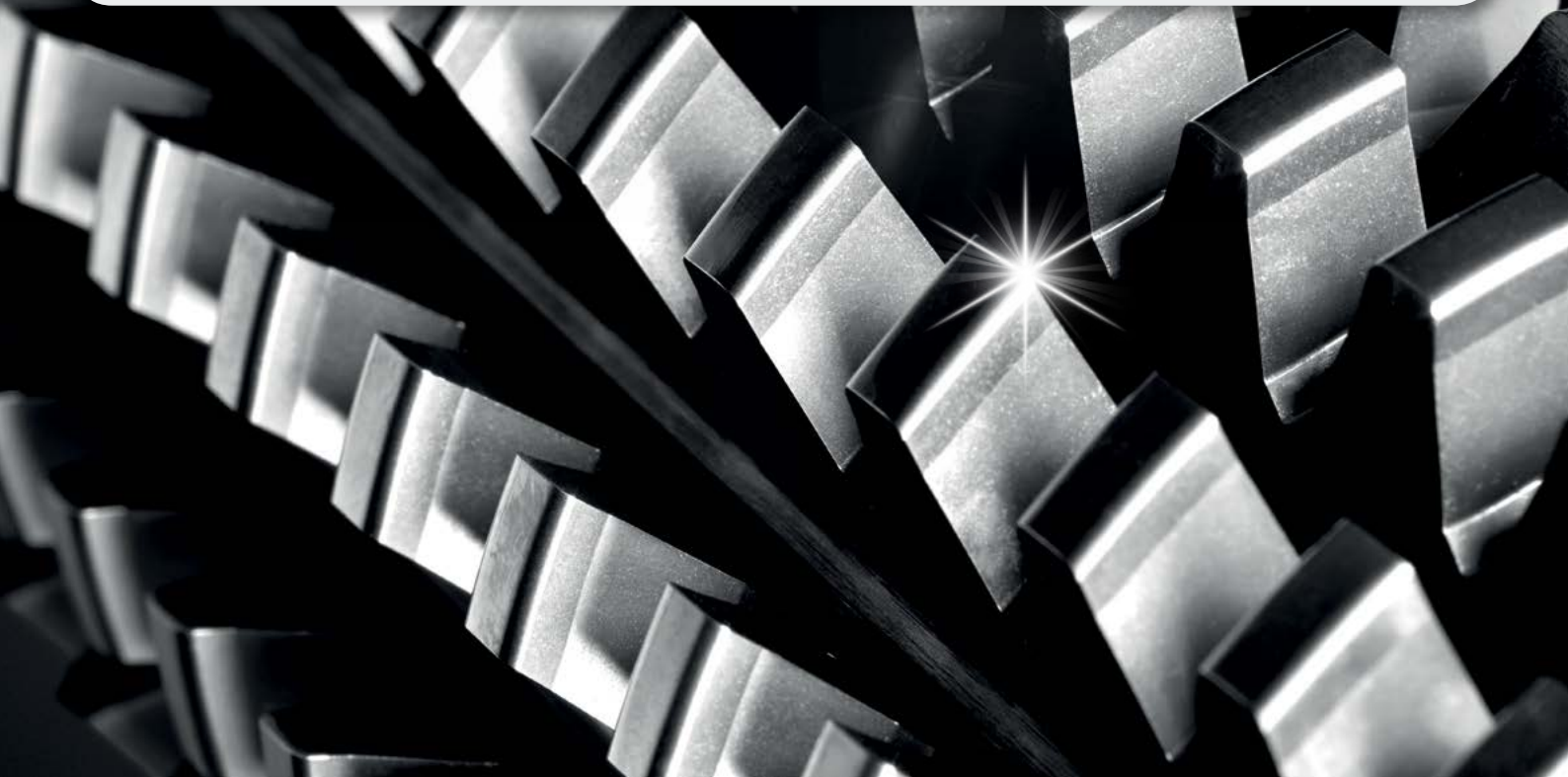
Optimum coating for the specific application

Reduction of variations and down-time in production

Highest tool performance

Part quality improvement

Proven savings in production



**Rely on a thorough analysis
and personal consulting**

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Move forward to greater reliability, longer tool life and improved cutting performance with primeGear

Wear analysis shows what a tool has experienced and how tool performance can be improved



<< Unwanted wear or damage mechanisms:

- Chippings
- Low cycle fatigue

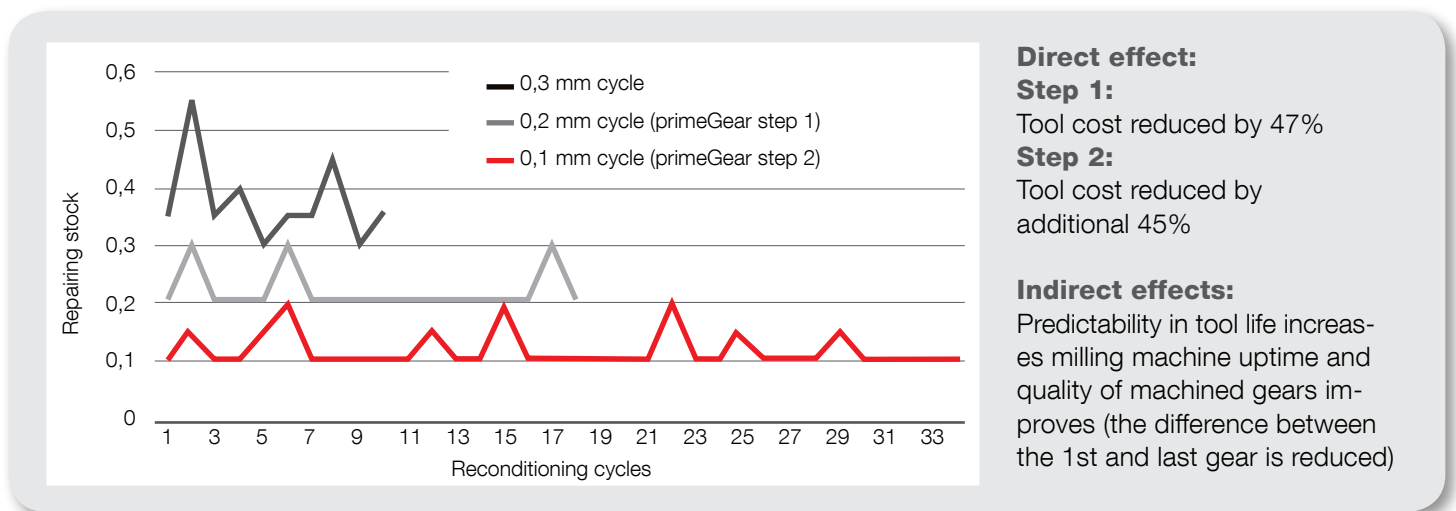
Preferred >> wear mechanisms:

- Mild abrasive and/or adhesive wear

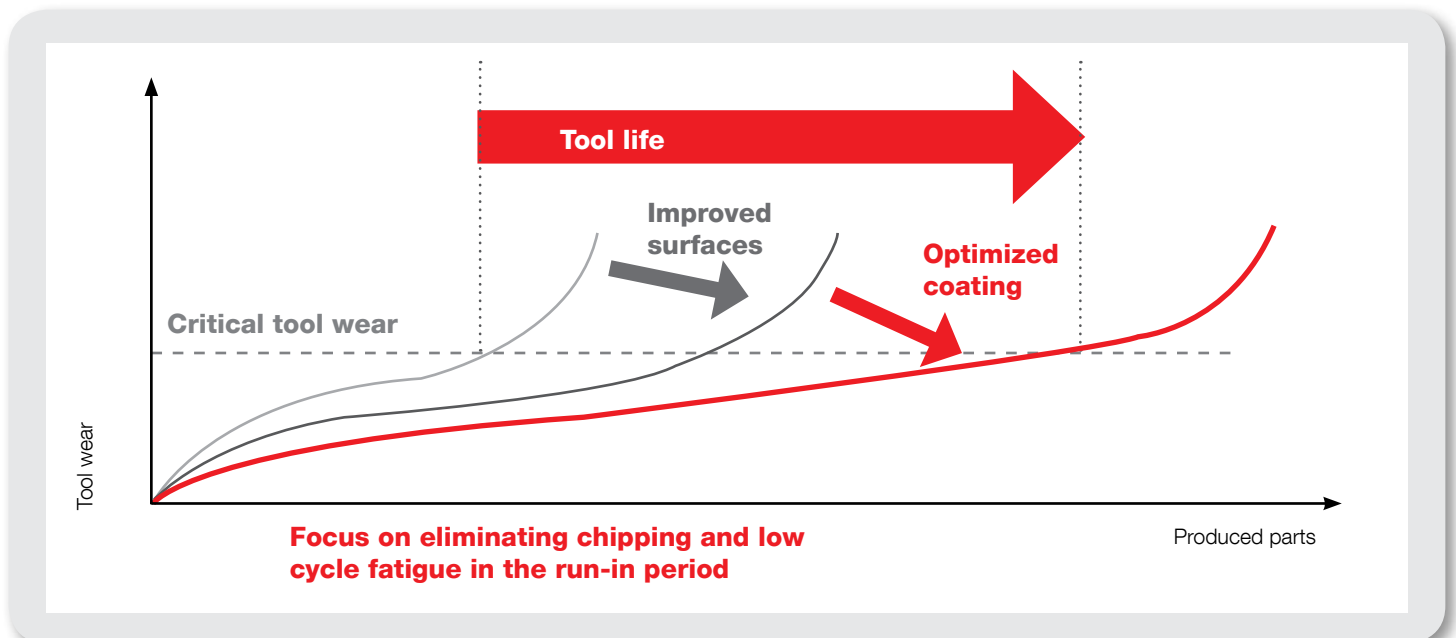


Reduction in reshaping variations –

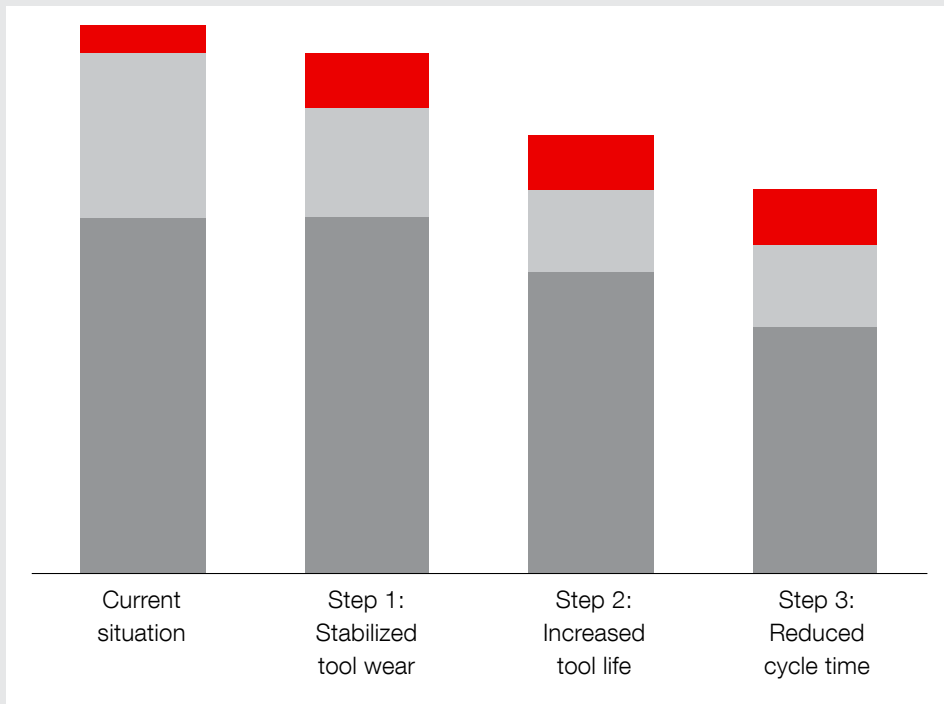
Effect on tool life with fixed number of machined gears and same cutting data






No chippings and no low cycle fatigue leads to predictable tool wear and a longer tool life



Analysis of tool life cycle and production costs



A deep dive into the today's tool life cycle and production costs gives the starting point for cost savings.

-  Reconditioning cost
-  Tool cost
-  Machining cost

High performance predictable tools also affect the resulting surface roughness on the work piece



Pinion after milling

<< Standard

primeGear >>

Improved tool surface quality results in smoother surfaces on gear teeth



Benefit from the primeGear-Service Contact us now!

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