primeGear
A customised service to realise unmatched gear cutting tool performance
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
- Resharpening

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

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Rely on a thorough analysis and personal consulting
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 resharpining variations –
Effect on tool life with fixed number of machined gears and same cutting data

Direct effect:
Step 1:
Tool cost reduced by 47%
Step 2:
Tool cost reduced by additional 45%

Indirect effects:
Predictability in tool life increases milling machine uptime and quality of machined gears improves (the difference between the 1st and last gear is reduced)

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

Focus on eliminating chipping and low cycle fatigue in the run-in period
Analysis of tool life cycle and production costs

- Current situation
- Step 1: Stabilized tool wear
- Step 2: Increased tool life
- Step 3: Reduced cycle time

A deep dive into 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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