

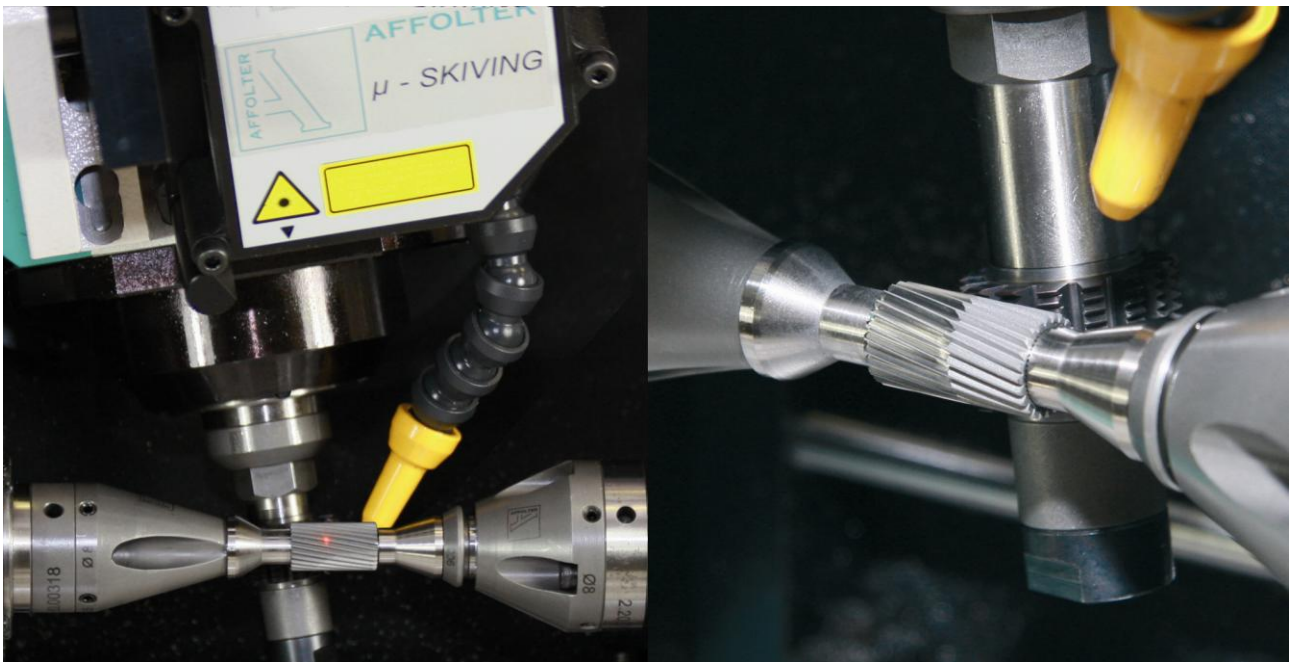


# $\mu$ -Skiving

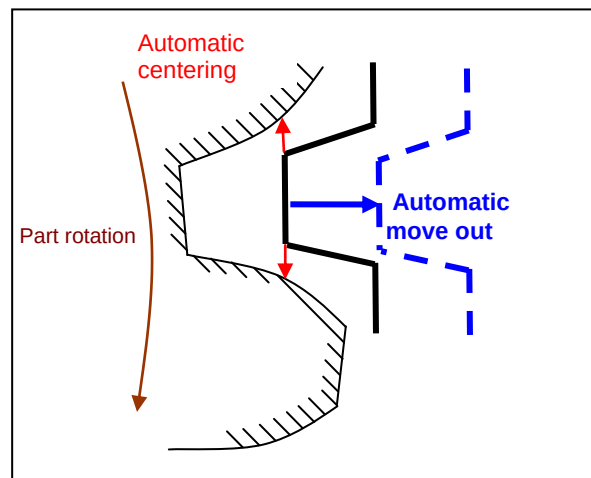
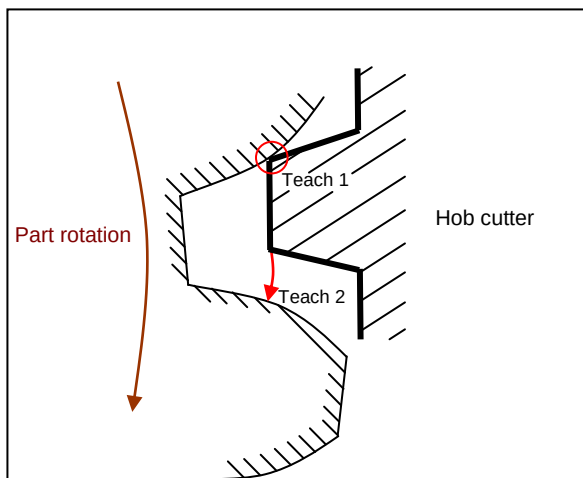
## Finishing of hardened small pitch gears

As an alternative to the gear grinding operation, Affolter offers on the AF100 gear hobbing center the option  $\mu$ -Skiving :

- High precision re-positioning of pre-cut components in the module-range 0.1 to 1.0mm (254 to 25.4 DP) with a laser sensor
- Skive-hobbing with profile optimized and coated carbide hob cutters
- Dry cutting: air cooling and chips aspiration
- Machining of hardened materials at 60~65 HRC
- The gear quality is usually DIN 3~5 (AGMA 14~15 / JIS 0)



The setup operation for the alignment of the hob inside the tooth space is performed with a simple and semi-automatic procedure on the CNC-control:





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## Application example: Pinion (helical gear)

Normal module / DP  $m_n$ : 0.35 / 72.57 DP

Number of teeth  $z$ : 32

Pressure angle  $\alpha$ : 20°

Helix angle  $\beta$ : 11.5°

Hardness HRC: 61~63

