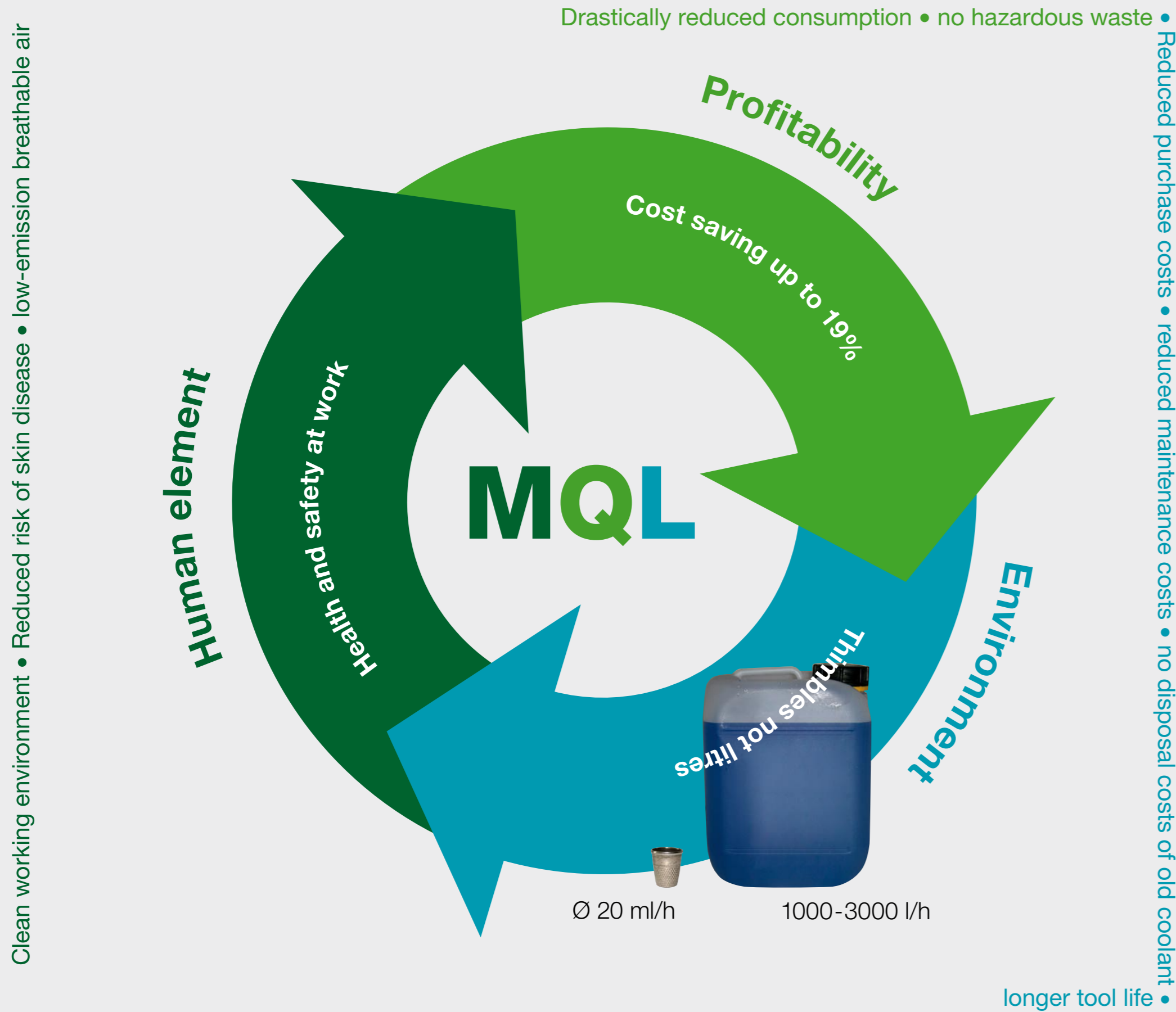


Advantages MQL



MQL stands out due to an enormously reduced consumption of lubricants in use compared to conventional wet machining.

MQL and Clamping Tools

Only the smallest amounts of lubrication are used in connection with MQL clamping tools - the application revolves around correct delivery of coolant to the cutting edge without any drop in pressure.

The MQL compliant clamping tool plays a decisive role as part of the MQL delivery system.

There are two basic challenges for the clamping tool:

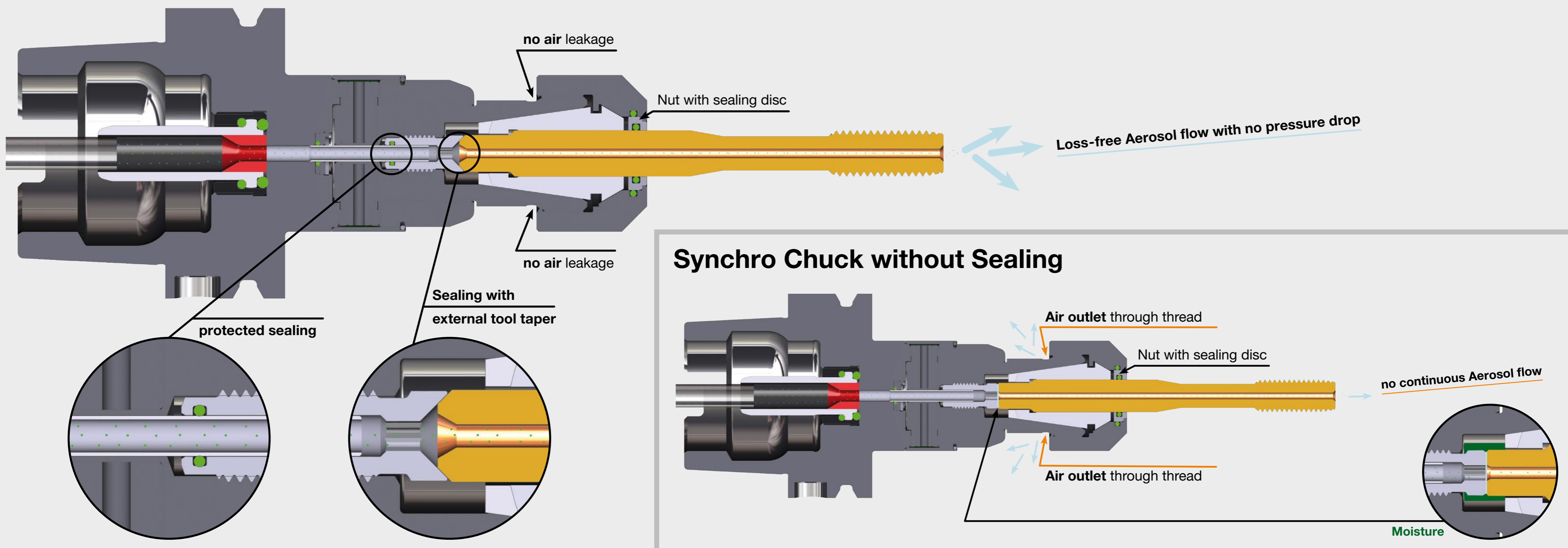
- Optimised leak-proofing for a leak-free aerosol stream with no fine mist of aerosol droplets, no build up of moisture in the clamping chuck.
- Lubrication delivery from the very first moment for a flawless aerosol flow without any drop in pressure to the cutting edge.

The new MQL generation from Bilz fully meets these requirements.

Optimised leak-proofing is unique on the market so far and a patent was applied for in January 2010.

Lubricant from the very first moment – loss-free

MQL - Optimised Synchro Chuck



Trials with convincing evidence within VW Germany

Success Story SCK

The optimised SCK and the clamping chuck used up to that point were clamped onto a double-spindle machining centre in direct comparison to one another. Components made of AISi9 were machined using a thread former from LMT-Fette at 6 bar pressure and maximum cutting speeds.

Whereas a fine mist of aerosol droplets forms around the old design chucks, the optimised SCK runs flawlessly. No mist, no moisture build up in the clamping chuck. The aerosol is 100 % where it should be – at the cutting edge.

