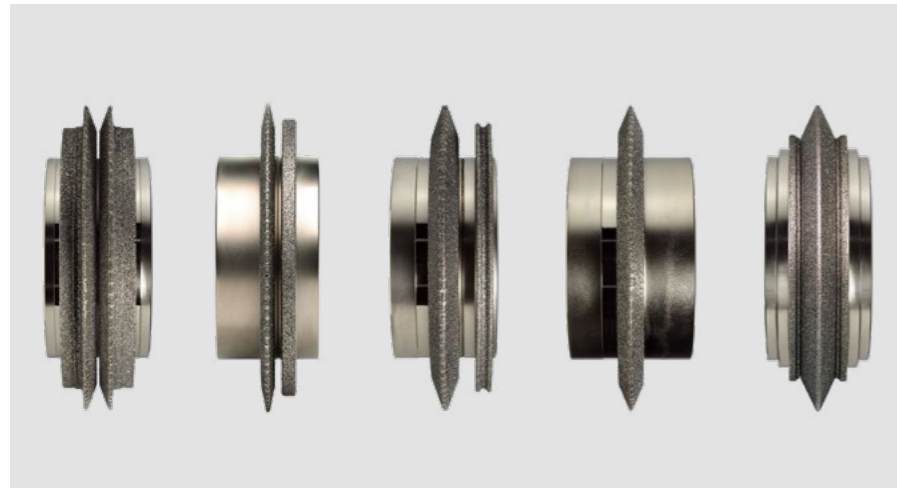


DRESSING TOOLS

Diamond profile rolls and diamond form rolls

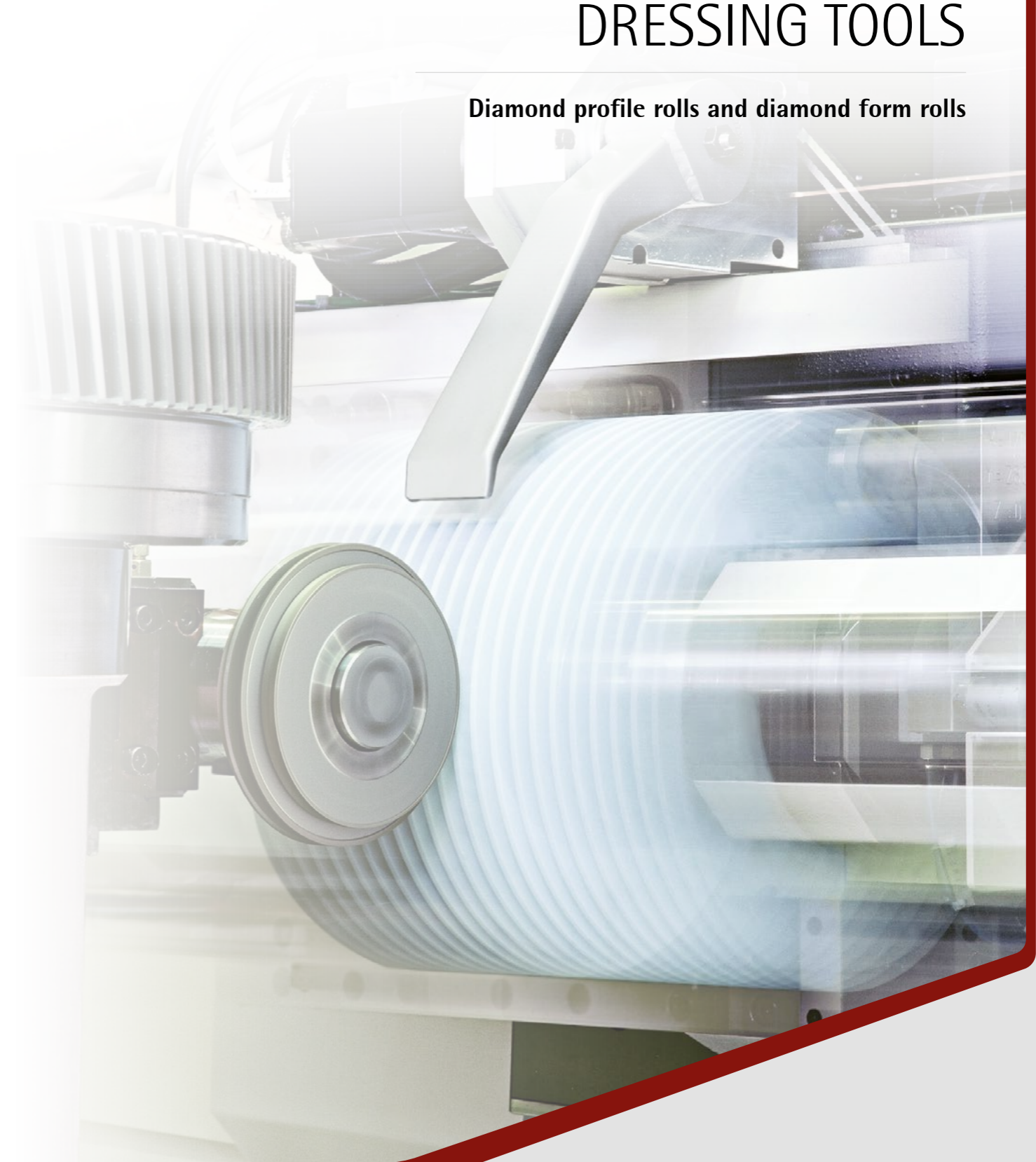


Long service life due to highly wear-resistant CVD inserts



Highest profile precision possible

Tools can be reground several times



Diamond profile rolls and diamond form rolls for generating grinding for flexible or topological dressing of vitrified corundum grinding worms or dressable CBN worms for the continuous generating grinding of external gears.

For serial production, an integrated tip dresser is used for defined grinding of the gear root area.

Diamond form rolls for profile grinding in sintered design for profiling dressable profile grinding wheels.

Either as an economic version with natural diamond or as a long life tool with handset CVD diamond. These tools can be reground several times and exhibit a long service life.

Multi-ribbed diamond profile rolls for generating grinding for high efficiency dressing of vitrified grinding worms in large batch production.

Full profile rolls are produced in galvanically negative design for a wide range of modules and rib numbers.

Diamond dressing gears for gear honing for profiling dressable honing rings.

This type of tool is also available as a tool set consisting of dressing gear and integrated tip dressing roll to move back the tip of the tooth at the honing ring.

GRINDING TOOLS

Non-dressable CBN grinding wheels and grinding worms



Worldwide replating
close to the customers

Application-specific
design and
manufacturing

Maximum level of
quality and 40 years of
experience



KAPP NILES manufactures non-dressable, electroplated CBN tools for hard and soft finishing of gears and profiles. Our tools have been rated among the top products worldwide for decades. They are used whenever the highest quality standards, performance and efficiency are required.

CBN profile grinding wheels in single or multi-ribbed roughing or finishing design, for grinding of

- external and internal gears in automotive (passenger car, commercial vehicle) and aircraft industry
- Radial, screw, rotor and worm profile wheels
- High speed grinding of profiles and gears
- Plunge grinding, abrasive cutting, cylindrical grinding

CBN grinding worms as roughing and finishing worms.

In cylindrical form for highly efficient grinding of external gears and other profiles as well as in globoidal form for continuous profile grinding of external gears with interfering contours. Grinding worms and profile grinding wheels are often used in combination.

Ceramic grinding tools

In addition to non-dressable CBN tools, dressable tools made by renowned manufacturers can be used with our machines. Vitrified corundum grinding tools have been dominant for this purpose. Due to its good stability and grinding performance, the use of sintered corundum is preferable for grinding steel. It is recommended to machine grey cast iron with fused aluminium oxide as grinding material.