TOOLS

dressing and grinding tools

KAPP NILES
precision for motion
dressing and grinding tools

- machines and tools from one source
- grinding and dressing tools for
  - generating grinding
  - profile grinding
  - gear honing
- application-specific design and manufacturing
- worldwide replating close to the customers

KAPP manufactures non-dressable, electroplated CBN and diamond grinding tools for hard and soft finishing of gears and profiles. In addition there are dressing tools for dressing of ceramic or CBN tools in the product line. KAPP grinding tools have the best reputation for more than 30 years worldwide guaranteeing highest quality, efficiency and economic grinding.

dressing tools

- profile grinding
- diamond form rolls
  - sintered design for dressing of vitrified 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 high tool life.

diamond dressing gears

- for profile dressing of vitrified honing rings

Also available as a set with DDG and integrated tip dressing roll.

generating grinding

- diamond profile rolls and -form rolls
  - for flexible or topological dressing of vitrified 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.

multi-ribbed diamond profile rolls

- for high efficiency dressing of vitrified grinding worms in high volume production

grinding tools

CBN profile grinding wheels

- single or multi-ribbed roughing and finishing wheels suitable for
  - grinding of external and internal gears for automotive and aircraft industry
  - radial, screw, rotor and worm profile wheels
  - high speed grinding of profiles and gears
  - lunge grinding, abrasive cutting, cylindrical grinding

CBN grinding worms

- Roughing and finishing worms in cylindrical form for high efficient grinding of gears and other profiles as well as in globoidal form for grinding external gears with interfering contours.

Grinding worms and profile wheels are often used in combination.

diamond coroning rings and -gears

- suitable for coroning of external and internal gears as well as shoulder gears, even with small crossed axes angle
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