

Press information

On behalf of the coming MOTION+POWER Technology Expo in Detroit KAPP NILES will showcase a virtual model of the Gear Centre KNG 350 expert, several complementing grinding and dressing tools as well as newly developed analytical measuring machine KNM 4X.

The KNG 350 expert is based on a compact, set-up-optimised machine concept and is intended for use in medium and large-scale series production of external geared components with a diameter of up to 350 mm. The integrated loading device ensures shortest non-productive periods and can accommodate both bored parts and shafts. The new functional and ergonomic machine design paired with the innovative and user-friendly interface KN grind supports the user during set-up and optimisation of grinding projects. High-performance technology options combined with application-specific aligning and measuring functions enable maximum precision and surface qualities on the workpiece.

The analytical measuring machine KNM 4X is designed for high-precision measurements of gears, gear tools and rotationally symmetric workpieces up to Ø 450 mm.

All guides and base plates made of granite are extremely stable in the long-term and have identically low expansion coefficients. Air bearings with emergency operation properties ensure perfect and wear-free guides without short-term errors. Air spring elements underneath the base plates safely shield from jolts and vibrations. Separate bases are not required. Non-ferrous linear and torque motors of the rotary tables ensure ultimate position precisions and path accuracy. Despite the compact design, spacious travel ranges ensure a tangential generating motion towards the base circle for any profile. Based on the requirements, different scanning touch probe systems can be used. The control cabinet can be arranged freely.

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 tools in the product line. 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.

KAPP NILES is a globally operating group of companies with high-quality and economical solutions for finishing gears and profiles and is partner for companies from numerous industrial sectors in the mobility, automation and energy segments. The perfect interaction between machine, tool, technology and metrology enables extremely precise machining to a thousandth millimetre.



Picture 1: Measurement of a rotor at the analytical measuring machine KNM 4X



Picture 2: gear center KNG 350 expert with integrated automation.



Picture 3: numerous KAPP NILES grinding and dressing tools.