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**Media Release**

**Media Contacts:**

**Pattea Carpenter**  
303-447-1130 ext. 113  
patteac@kapp-usa.com

**Janet Braccio**  
303-447-7163  
jbraccio@BellaVoceCommunications.com

**KAPP RX 59 Uses High-precision Grinding Process to Manufacture Rotors for Air Compressors**

*Industry Partners Collaborate with KAPP on Advancement in Rotor Grinding Technology*

BOULDER, Colo., (June 15, 2007)—Rotors used in air compressors can now be manufactured on KAPP grinding machines (Fig.1) by using a high-precision grinding process that not only optimizes and enhances the production process, but also provides quality uniformity not attained before.

On the KAPP RX 59 machine, the rotors are ground with KAPP CBN (cubic boron nitride—a diamond-like synthetic cutting abrasive) plated tools. These tools have a single layer of CBN abrasive held in a nickel bond to a steel body. (Fig. 2) A grinding spindle is mounted on both sides and accommodates several grinding wheels, which are applied sequentially by moving the shift axis of the machine. This enables the two-stage grinding process of roughing and finishing. In addition, the KAPP rotor grinding machines integrate measuring equipment that allows controlled machining and size control in the micron range.

The newest generation of the KAPP rotor grinding machines produces unrivaled cycle times, achieved by using high powered direct-drive spindle motors. During the past three years, the RX 59 machine has increased efficiency by 30%. This advancement in rotor grinding technology was made possible by the collaboration of KAPP and its customers, who together worked on machine and CBN-tool development. Both the KAPP Group and its collaborating partners have profited greatly from this teamwork approach, and they both continue to expand on the international market.

### **About the KAPP Group**

The KAPP Group offers innovative technology and systems for precision finishing of gears and profiles. KAPP products are present in the automotive, aerospace, construction and compressor industries. NILES products, with their larger application options, can be found in industry segments such as wind energy, railroad engineering, and mining. The KAPP Group operates six locations world wide, with more than 750 employees. Intensive research and development, state-of-the-art engineering and production, as well as an integrated manufacturing package of machines, tools, processes, and support, the KAPP Group offers innovative solutions for the complex challenges of today's manufacturing world.

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Photo captions:

fig 1 KAPP RX 59 Machine

fig 2 Rotor Grinding with CBN