**METAV 2018, Düsseldorf**

**Hall 14, stand C46**

**25A axial grooving system with extended working range**

New applications thanks to increased diameter ranges

The proven 25A axial grooving system with cartridge design and round shanks is now even more versatile thanks to the introduction of new products. The previous system with single-edged or two-edged indexable inserts achieved cutting widths of 2 to 4 mm (0.0787 to 0.1575"), and a grooving depth of up to 18 mm (0.7087") with an external diameter of 15 mm (0.5906") or more. However, the enhanced cartridge and round shank versions now allow for grooving diameters of 50 to 65 mm (1.9685 to 2.5591") and from 65 to 80 mm (2.5591 to 3.1496") with cutting widths of 3 and 4 mm (0.1181 and 0.1575").

The cartridges are designed for Horn's K220 standard cartridge interface and are therefore compatible with all base holders for this system. The internal coolant supply ensures efficient cooling without any negative effect on chip flow. The tool holders can be equipped with single or double-edged carbide inserts of type 15A or 25A in carbide grade TH35 and with a TiAIN coating. The .10 geometry for long-chipping materials ensures safe chip flow, even with deep grooves.

The single-edged cutting insert also allows grooving along an interfering contour, such as a collar, making it suitable for universal use. As the dimensions of the cutting insert designs are identical, the single-edged inserts also fit into all 25A system holders.

*1,386 characters incl. spaces*

**Image captions:**

****

**Image 1:** Thanks to the extension of the range, Horn's 25A system now supports even deeper axial grooves.

****

**Image 2:** The cartridges are designed for Horn's K220 standard cartridge interface and are therefore compatible with all base holders for this system.

**Text and image credits:** Paul Horn GmbH, Nico Sauermann

Text and further information:

Hartmetall-Werkzeugfabrik Paul Horn GmbH, Christian Thiele

Unter dem Holz 33-35, 72072 Tübingen, Germany

Tel.: +49 7071 7004-1820, Fax: +49 7071 72893

E-mail: [christian.thiele@phorn.de](mailto:christian.thiele@phorn.de), [www.phorn.de](http://www.phorn.de/)