

PCD AND CVD DIAMOND
MEASURING PROBES FOR
BLOHM JUNG MACHINES

MEASURING PROBE

BLOHM JUNG DRESSING DEVICE PA-K37

As a manufacturer of high-precision profile grinding machines, JUNG developed a CNC head dresser PA30K for dressing grinding wheel profiles as early as 1987.

Today's swiveling dressing device PA-K37 of the company BLOHM JUNG can be used both with diamond dressing discs as well as with a 6-position diaform star dresser.



Photo: BLOHM JUNG

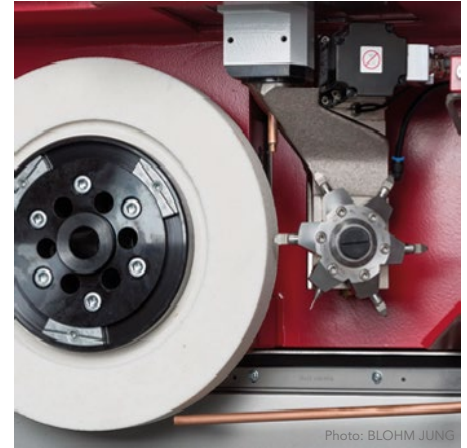


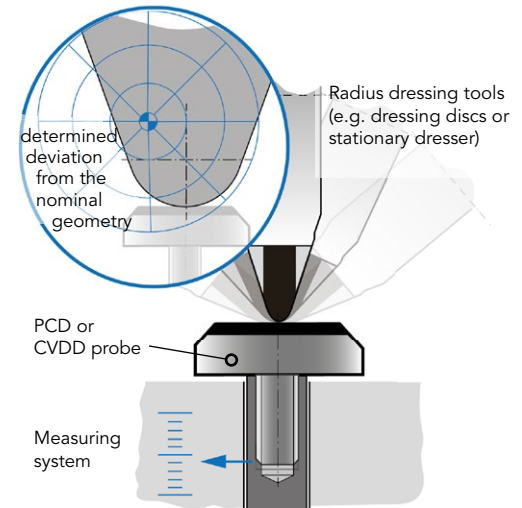
Photo: BLOHM JUNG

HOW DOES THE MACHINE DETECT THE POSITION OF THE DRESSER?

In order to dress a grinding wheel profile, the exact position of the dressing tool on the machine must be known: BLOHM JUNG has developed a special measuring probe for approaching the dressing tool for this purpose. For the precise setup of the stationary dressing tools on the 6-position star dresser, the individual tools are moved against the measuring probe and their geometry is recorded by stepwise swiveling of the star dresser. Dressing discs rotate slowly during the swiveling process. The exact position of the dresser geometry is determined from the sum of the measured data, so that a compensation of the CNC data can be calculated. The dresser can be used to profile grinding

wheels with a profile depth of up to 50 mm and a contour accuracy of $\pm 2.5 \mu\text{m}$. Preliminary dressing of a grinding wheel is usually performed line by line in an axis-parallel arrangement. For finish profiling, the dresser uses the $\pm 60^\circ$ rotation around the E-axis of the dresser and dresses the contour parallel.

The PA-K37 can also be used for continuous dressing.



HIGHEST ACCURACY THROUGH DIAMOND

The machines are usually delivered from the factory with carbide measuring probes, which result in „run-in marks“ on the measuring probes due to the rotating diamond dressing discs. The exact position of the dressing tools can therefore no longer be determined. A significantly higher service life and accuracy over the service life of the probes compared to carbides is achieved with diamond materials.

DR. KAISER has two variants in its program: PCD and CVDD probes.

PCD PROBE



CVDD PROBE



DR. KAISER
präzision durch diamant

DR. KAISER DIAMANTWERKZEUGE GmbH & Co. KG
Am Wasserturm 33 G – 29223 Celle – Germany
www.drkaiser.de

Hartmut Schulze
Division Wear Parts
Phone: +49-5141-9386-1036
E-Mail: Hartmut.Schulze@drkaiser.de

