

KomDrive facing heads with maximum speeds

High Quality Balance

HQB is the abbreviation for a technology developed by the KOMET GROUP[®] for adjusting imbalance in flat action slides. This technology has already been used to achieve speeds which, in high-precision and high-speed applications, effectively doubles the possible fields of application.

With the new **HQB** technology, the balancing weights have been placed in front of the slide on a plane close to the overall centre of gravity for tool and slide. Thus, by using balancing weights, it is possible to achieve a multi-plane (dynamic) balance, which can be realised irrespective of the stroke, thanks to its design. In addition, the centrifugal forces are converted into reaction forces at coupling points so that the centrifugal forces of the compensator and the slide tool system in the drive chain do not simply add up. The result is a drive torque which is largely separated from the centrifugal force formula. Another not inconsiderable factor for the smooth running of these facing heads is their reduced overall length; approximately 30 to 40 %, depending on the overall size, which in turn means reduced weight.

In practice, the HQB technology in the **KomDrive** flat action facing heads has already reduced the wobble torque, that is, the circumferential bending moment, by up to 100 %, thus achieving absolutely perfectly balanced systems. The greatest advantage of this is the improved machining parameters. Currently, conventional values are being doubled. At present, the only limiting factor is machine conditions.

KomDrive facing heads with **HQB** technology are being successfully used in high-speed and high-precision applications such as machining journals or boring con rods. They are at least as good as facing slide tools with eccentric adjustment, and may even be superior.

With its brands KOMET[®], DIHART[®] and JEL[®], the KOMET GROUP[®] is a leading global manufacturer of precision tools for bore machining, reaming and threading. The group has been at the forefront of innovation in the sector for over 90 years - a tradition that began with the early indexable insert borers and continues today with their mechatronic tool systems. The company currently employs more than 1,600 staff in its 20 subsidiaries and is represented in around 50 countries.

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