



For maximum spindle speeds

Facing heads with HQB technology

KomDrive HQB TECHNOLOGY



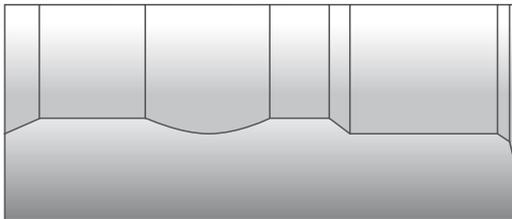
Facing heads with High Quality Balance (HQB) –technology multi plane balancing

With the new style **HQB technology**, using the new concept for adjusting imbalance, the balancing weights are placed in front of the slide on a plane close to the overall centre of gravity for tool and slide.

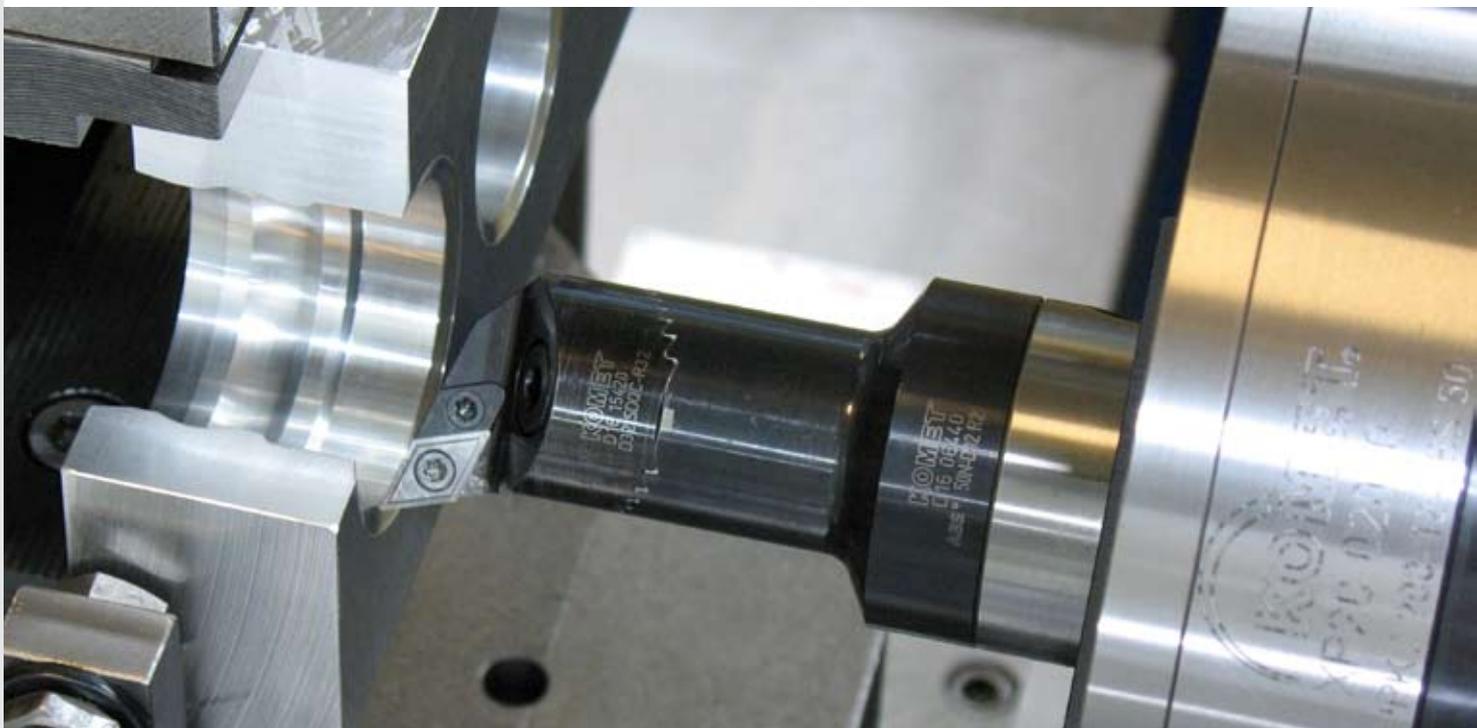
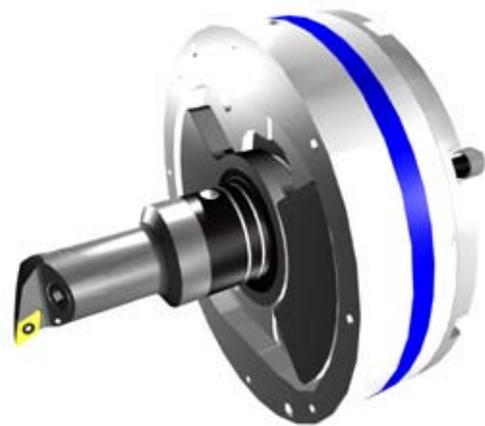
HQB technology combines the advantages of the flat action slide with optimum dynamic balancing.

Advantages:

- ✓ Increased spindle speeds
- ✓ Flat action slide principle
(no contour distortion after stroke)
- ✓ Maximum geometric accuracy
- ✓ Compact design
- ✓ Extremely quiet running



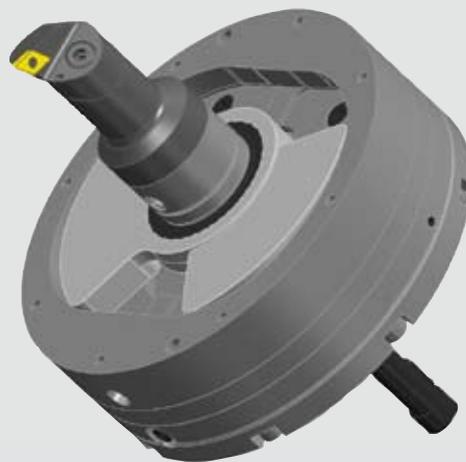
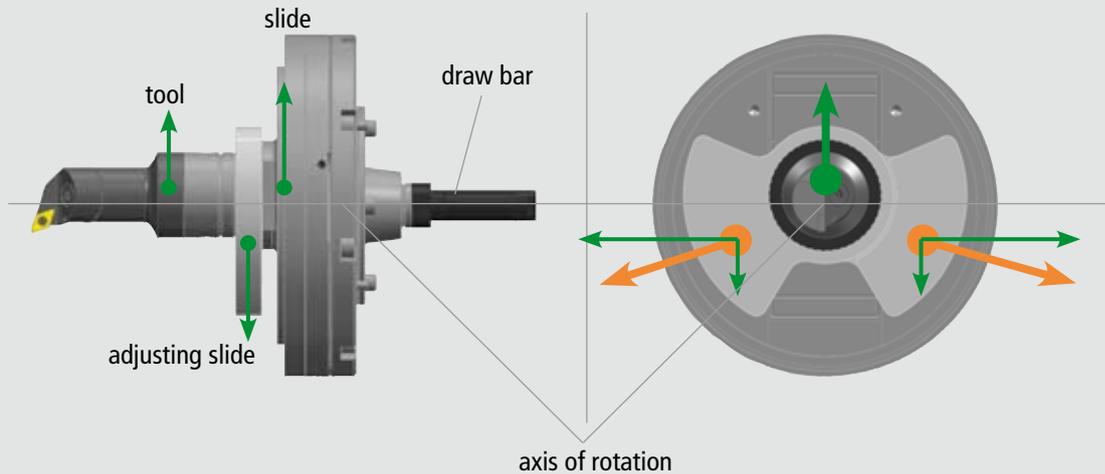
Machining example



Balancing on a centre gravity plane

Function principle

Centrifugal force components



Conventional facing heads with balancing, or weight compensation, work by means of the counter movement of a working and adjusting slide. The systems found on the market provide weight compensation in one plane (static balancing). However, this can produce a wobble. By using a slide which moves in the opposite direction the drive power is also doubled.

Slide tools with eccentric adjustment have the disadvantage that any production forces have to be absorbed with the drive chain and definition of the blade position is very difficult.

Summary

HQB technology represents the best possible flat action facing heads with compensation for imbalance.

This allows **HQB technology** to be used in spindle speed ranges which were previously reserved for the round actuating slide principle. In addition **HQB technology** allows a considerable reduction in drive power on the draw bar.

Patent registration nationally and overseas

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