



Precision roller blocks - adjustable with gauges

Adjustable for different bearing diameters with use of gauges.

For high precision concentricity measurements of rotationally symmetrical parts such as shafts, rollers, and tubes. The construction of the JFA precision roller blocks is designed to accommodate very heavy workpieces. These precision instruments can also be used in combination with a tailstock pair or spindle head with counter tailstock.

Construction - rigid roller support structure

The main body is made of cast iron or steel. The roller carriers are made of steel. Running precision of high-precision rolling beared rolls up to 0,002 mm. With finely honed t-nuts of hardened steel. The precision roller blocks are adjustable with gauges. They can be positioned and clamped in T-guiding and clamping grooves of eg. surface plates.

Construction - floating roller support structure

The roller support structure is perpendicular to the workpiece axis Floating. The rest of execution as described above. These precision roller blocks will be used, if the length and weight of the workpieces demand the support of more than two bearings. That allows the workpieces in the rotation to 0 - 360 ° to follow the concentricity of the bearings towards the side. Faults of concentricity become measurable. The deflection of the workpiece is eliminated.

Adjustment of the bearing diameter with final dimensions

The roller steadies can be pre-adjusted in accordance to known diameters with the help of gauge blocks, so that workpieces with different outside diameters can also be aligned high precisely as well as equal to the ideal axis. Precision roller blocks up to a axis height of 250 mm can be adjusted by hand without adjusting drives. On the larger axis heights, the adjustment of the roller carrier is acting on self-locking adjusting drives.

Accessories

Added optional air suspension system in the stand for easy and low-wear moving and positioning e.g. on surface plates of natural hardstone – granite.

For very heavy pieces, we recommend the use of insertion tools.

For every rotationally symmetrical work pieces the right shot. JFA gauge block roller blocks are also manufactured according to customer specifications. Either as a standalone product or integrated into a special JFA measuring equipment.

TECHNICAL TABLE

for axis height	mm	100	150	200	300	400	500	600
min. - max. diameter of workpiece	mm	10 - 65	15 - 110	20 - 140	25 - 170	35 - 240	50 - 300	80 - 360
standing face	mm	100 x 164	150 x 250	150 x 340	220 x 480	240 x 660	300 x 770	330 x 840
for nominal size of t-slots DIN 650		14 mm H7	14 mm H7	14 mm H7	14 mm H7	18 mm H7	18 mm H7	18 mm H7
Weight per pair	kg	6	15	30	72	156	270	500

