

## Shaft - Hub - Connection

External clamping, self-centering

The clamping set provided by ATEK is a frictionally engaged, detachable shaft - hub connection for cylindrical shafts and bores without feather key. The clamping set is generally delivered in assembled condition.

**Warning:** You may only assemble the clamping if you have carefully read through the mounting instructions and understood them as well as if you are authorized and have proper skills!

### Attention!

Dirty or used clamping sets must be disassembled before the installation in order to be cleaned. Afterwards only the taper surfaces and the clamping screws must be greased with Molykote MoS2.

### Assembly

Check the shaft and hub position regarding the permitted tolerance (table 1).

The contact surfaces of the hollow shaft inside and shaft must be cleaned and degreased! Loosen the clamping screws slightly and put the clamping set externally onto the hollow shaft. In the area of the position of the external clamping set the external surface of the hollow shaft can be greased.

**Caution! Before tightening the clamping screws install the shaft.**

Tighten the clamping screws evenly and successively. Increase the tightening torque step by step. This must be repeated until reaching the tightening torque indicated in table 2 at all clamping screws.

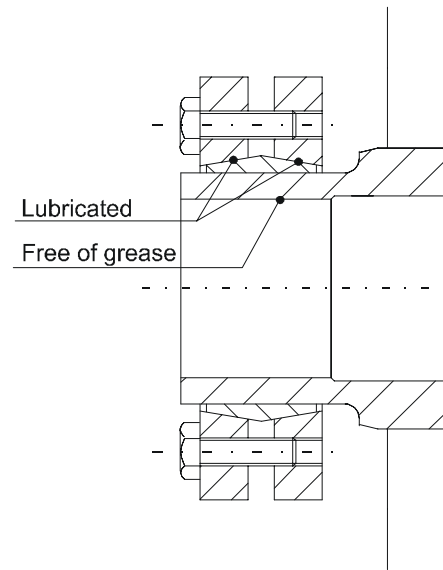


Table 1

shaft-Ø dw [mm]	18 to 30	31 to 50	51 to 80	81 to 500
tolerance	H6 / j6	H6 / h6	H6 / g6	H7 / g6

Other tolerances are possible! Contact us!

Table 2

screw size	M5	M6	M8	M10	M12	M16	M20
tightening torque TA [Nm]	4	12	30	59	100	250	490

### Disassembly

Detach all clamping screws evenly and successively. Do not unscrew the clamping screws completely from the thread.

The clamping sets are not self-locking. If the front and the back external taper ring do not loose, the loosening process must be started by a slight pressure onto the front and the back external taper ring on the circumference.

Remove shaft from hollow shaft and draw the clamping set off the hollow shaft.