

## Technical Information TI-KFHD-001 Locking Unit KFHD

### Clamping rotary and axial forces with standard Locking Units

Standard Locking Units are not designed to hold torsional loads.

However, there may be cases where locking with friction is required in torsional applications.

With standard Locking Units, the holding torque can be determined as follows:

$$M = 0.05 \times F \times d$$

M = holding torque (Nm)

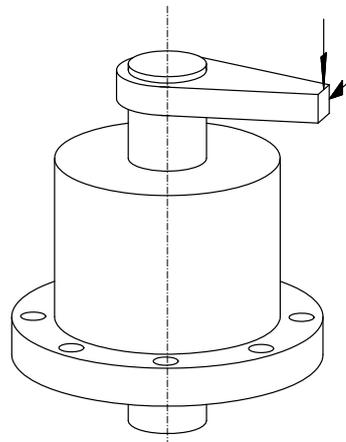
F = axial holding force (kN)

d = rod diameter (mm)

However holding rotary forces is only permissible if:

- M is not exceeded.
- The rod is stopped before clamping.

Please contact SITEMA when planning applications with rotary forces.



### Clamping rotary and axial forces with Locking Unit KFHD

The Locking Unit KFHD is designed with keys and locking wedges to transfer torque loads. The holding torque is:

$$M = 0.5 \times F \times d$$

M = holding torque (Nm)

F = axial holding force (kN)

d = rod diameter (mm)

The application of the Locking Unit KFHD should be limited to **static holding only**. The rod needs to be stopped before clamping. The braking of a rotating mass will cause friction heating and possible seizing.

Please contact SITEMA for further information.

