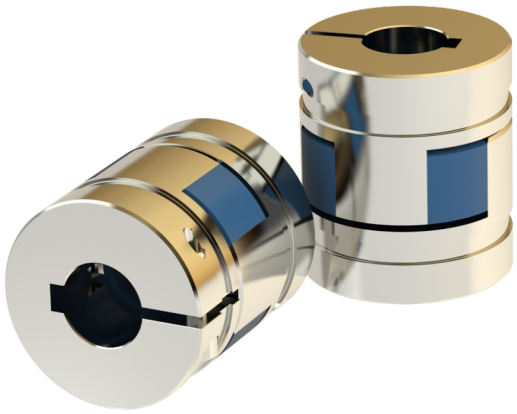
SUPREME SENSORING

# Clamping coupling Model KK9

Document no.:
KK 17660 AE
30.03.2026



- **Three-piece, axially pluggable coupling which is play-free under pre-tension**
  - □ **Hub with diameter d1**
  - □ **Ring gear**
  - □ **Hub with diameter d2**
- **Play-free torque transfer, ideally adapted stiffness and optimal vibration damping**
- **Safety version with groove**
- **With electrical insulated hubs**
- **Max. torque: 3.6 Nm**

## KEY INFORMATION OVERVIEW

### DESIGN & FUNCTION

Play-free shaft coupling KK9N/x-y consists of two identical halves with aluminium hubs (clamping rings) which can be supplied with different bores x, y (fit size H7) for mounting the shafts.

The coupling can be pulled apart and assembled axially without having to release the two halves from their shafts. An involute ring gear manufactured from elastic polyurethane pretensions the two halves positively and joins them together without play.

Thanks to adherence to gap dimension 'S', model KK9N/x-y also attains electrical insulation in addition to achieving a long service life (see page 3).

The coupling is particularly suitable for use at high accelerations and for transmitting high torques.

### CLAMPING COUPLING WITH GROOVE

- Model KK9N/x-y: The clamping coupling is equipped with a groove for feather key according to DIN 6885 P.1-JS9.
- Designed with gap ‘S’ for electrical insulated hubs (see page 3)

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## GENERAL INFORMATION

### INSTALLATION INSTRUCTIONS

- Recommended shaft fit is h6.
- The values for torque and axial offset are not allowed to exceed the specified value on assembly.
- Adherence to offset value and torque value is required for a long service life in continuous operation. Particular attention in this regard is given to the lateral offset.
- Additionally securing the threaded screws is not required.

## TECHNICAL DATA

### MECHANICAL DATA

| | |
|---|---|
| Rated torque | 1.8 Nm |
| Max. torque | 3.6 Nm |
| Max. rotational speed | 19,000 rpm |
| Static rotary spring stiffness | 17.2 Nm/rad |
| Dynamic rotary spring stiffness | 52 Nm/rad |
| Radial spring stiffness | 125 N/mm |
| Mass moment of inertia | per hub: 0.48 x $10^{-6}$ kgm$^2$ |
| Mass moment of inertia | ring gear: 0.085 x $10^{-6}$ kgm$^2$ |
| Bore fit size | H7 |
| Max. parallel offset | ≤ 0.19 mm (lateral offset) |
| Max. axial displacement | ≤ 0.8 mm |
| Max. angular offset | ≤ 1° |
| Operating temperature | - 50 °C to + 80 °C (permanently)<br>- 60 °C to + 120 °C (temporarily) |
| Ring gear shore hardness | 80 Shore A |
| Material | Polyurethane (ring gear)<br>AlMgSiSnBi - Stanal 32 (clamping hub) |
| Weight | ca. 30 g (with bore diameter d1 = Ø 6, d2 = Ø 10 mm) |
| Groove for feather key | according to DIN 6885 P. 1-J59 |

## ORDER CODE FORMAT

| KK9 | N / | 6 - | 10 | STANDARD VERSION |
|---|---|---|---|---|

| KK9 | Play-free clamping coupling model KK9 | | |
|---|---|---|---|
| **N** | | N | With groove for feather key (DIN 6885 P.1, JS9) |
| **6** | Bore diameter Ø d1* | 6<br>8<br>9<br>10 | Bore diameter in mm, tolerance H7 |
| **10** | Bore diameter Ø d2* | 6<br>8<br>9<br>10 | Bore diameter in mm, tolerance H7 |

* Bores d1 and d2 can be combined

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## DOCUMENTATION

### DOCUMENTATION

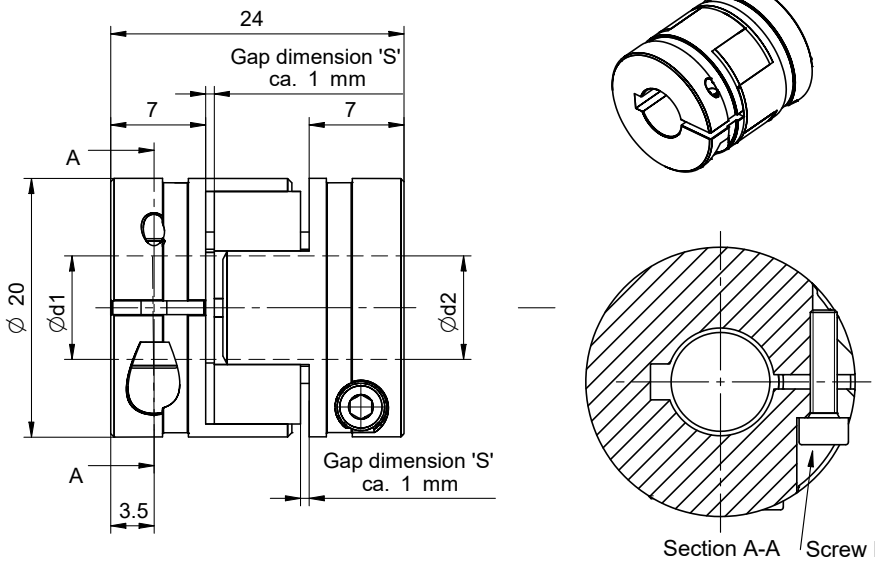
The following documents can be found in the Internet under www.twk.de/en in the documentation area, model KK.

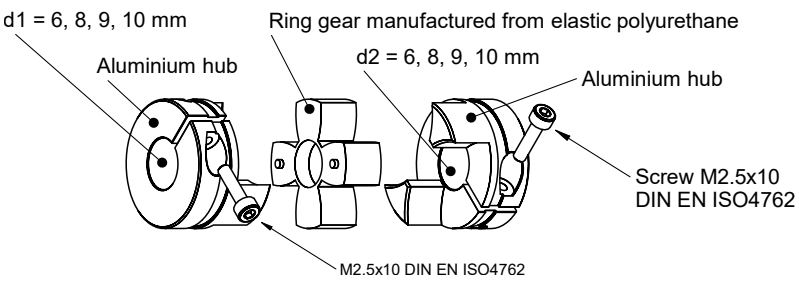
Data sheet . . . . . KK17660
Reach compliant . . . . . QS15286
RoHS compliant . . . . . QS13284
POP Declaration of conformity . . . . . QS17238
Declaration of Conformity CE . . . . . ZE12467
Declaration of Conformity UKCA . . . . . ZE16569

## INSTALLATION DRAWINGS

### MODEL KK9N WITH GROOVE FOR FEATHER KEY AND ELECTRICAL INSULATION

Dimensions in mm




Bore d1/d2 . . . . . Groove for feather key
Ø 6 . . . . . 2 x 2
Ø 8 . . . . . 2 x 2
Ø 9 . . . . . 3 x 3
Ø 10 . . . . . 3 x 3

According to DIN 6885 P.1 - JS9

### TOLERANCE RANGES

| Diameter in mm | Tolerance in µm | |
|---|---|---|
| | Bore | Shaft |
| | H7 | h6 |
| Ø 6 | +12/ 0 | 0/ -8 |
| Ø 8, 9, 10 | +15/ 0 | 0/ -9 |