JK3



WITH CONICAL CLAMPING SYSTEM
带锥形夹紧轴套

Nominal Torque: 15–10,000 Nm · 额定扭矩: 15–10,000 Nm

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

- **High frictional surface clamping pressure**
  高表面锥套夹紧力
- **High-torque heavy-duty execution**
  高扭矩重载结构设计
- **Integrated jacking threads for easy dismounting**
  自带拆卸螺孔，便于拆装维护

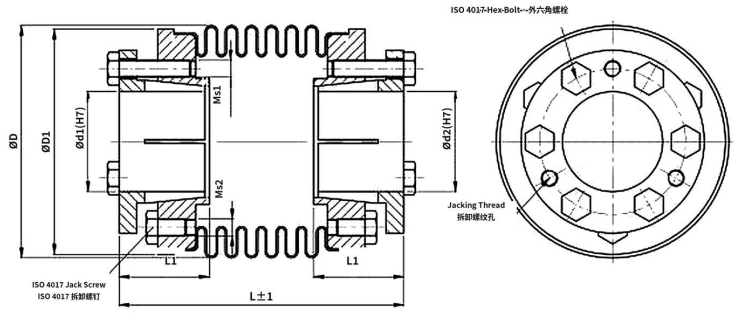
MATERIAL 材料

- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Hubs & conical clamping rings: steel**
  轴套及锥形夹紧环: 钢

DESIGN 结构设计

Two conical clamping bushes concentrically mounted to the flexible metal bellows, tightened via axial ISO 4017 bolts. Short-term peak overloads of up to 1.5x the nominal torque (T_{KN}) are permissible.

两端锥形夹紧轴套与金属波纹管同轴安装，通过轴向 ISO 4017 螺栓锁紧。可承受1.5倍额定扭矩的瞬时过载。



Model JK3 · JK3型 — Technical Specifications & Dimensions 技术参数表

MODEL SIZE 规格	Symbol 代号/单位	15	30	60	150	200	300	500	800	1500	4000	6000	10000
Nominal Torque 额定扭矩	T_{KN} [Nm]	15	30	60	150	200	300	500	800	1500	4000	6000	10000
Overall Length 总长度	L [mm]	48 | 55	57 | 65	66 | 76	75 | 87	78 | 90	89 | 103	97 | 110	114	141	195	210	217
Bellows Outside Diameter 波纹管外径	D [mm]	49	55	66	81	90	110	124	133	157	200	253	303
Hub Fit Length 轴套配合长度	L1 [mm]	19	22	27	32	32	41	41	50	61	80	85	92
Bore Diameter Range (H7) 内孔径范围 (H7)	d1 [mm]	10–22	12–23	12–29	15–38	15–44	24–56	24–60	30–60	35–70	50–100	60–140	70–180
Bore Diameter Range (H7) 内孔径范围 (H7)	d2 [mm]	10–22	12–23	12–29	15–38	15–44	24–56	24–60	30–60	35–70	50–100	60–140	70–180
Hub Outside Diameter 轴套外径	D1 [mm]	49	55	66	81	90	110	122	116	135	180	246	295
Clamping Screw (ISO 4017) 紧固螺栓 (ISO 4017)	Ms1	6xM4	6xM5	6xM5	6xM6	6xM6	6xM8	6xM8	6xM10	6xM12	6xM16	6xM16	8xM16
Screw Tightening Torque 螺栓锁紧扭矩	T_A [Nm]	4	6	8	12	14	18	25	40	70	120	150	160
Jack Screw for Dismounting (ISO 4017) 拆卸螺栓 (ISO 4017)	Ms2	3xM4	3xM4	3xM5	3xM5	3xM6	3xM6	3xM6	3xM8	6xM8	6xM10	6xM10	8xM10
Moment of Inertia (10^{-3} kg·m²) 转动惯量 (10^{-3} kg·m²)	J	0.07 | 0.08	0.15 | 0.16	0.39 | 0.41	1.2 | 1.6	1.7 | 2.5	5.1 | 5.9	9.1 | 9.9	13.2	34.9	85.5	254	629
Approx. Weight 近似重量	m [kg]	0.26	0.5	0.9	1.3	1.8	3	4.3	5.7	8.3	23	32.7	45.6
Torsional Stiffness (10^3 Nm/rad) 抗扭刚度 (10^3 Nm/rad)	C_T	20 | 15	39 | 28	76 | 55	175 | 110	191 | 140	450 | 350	510 | 500	780	1304	3400	5700	10950
Max. Axial Misalignment 最大允许轴向偏差	ΔK_a [±mm]	1 | 2	1 | 2	1.5 | 2	2 | 3	2 | 3	2.5 | 3.5	2.5 | 3.5	3.5	3.5	3.5	3	3
Max. Lateral Misalignment 最大允许径向偏差	ΔK_r [±mm]	0.15 | 0.2	0.2 | 0.25	0.2 | 0.25	0.2 | 0.25	0.25 | 0.3	0.25 | 0.3	0.3 | 0.35	0.35	0.35	0.4	0.4	0.4
Max. Angular Misalignment 最大允许角向偏差	ΔK_w [±°]	1 | 1.5	1 | 1.5	1 | 1.5	1 | 1.5	1 | 1.5	1 | 1.5	1 | 1.5	1.5	1.5	1.5	1.5	1.5
Axial Spring Rate 轴向弹簧刚度	C_a [N/mm]	25 | 15	50 | 30	72 | 48	82 | 52	90 | 60	105 | 71	70 | 48	100	320	565	1030	985
Lateral Spring Rate 径向弹簧刚度	C_r [N/mm]	475 | 137	900 | 270	1200 | 420	1500 | 435	2040 | 610	3750 | 1050	2500 | 840	2000	3600	6070	19200	21800