JK Series JK系列

MISHKIN Metal Bellows Couplings MISHKIN 金属波纹管联轴器

MODEL 型号		DESIGN FEATURES & TORQUE RANGE 结构特点与扭矩范围	PAGE 页码
JK1		**With Flange Connection** 带法兰安装 Nominal Torque: 15 – 10,000 Nm · 额定扭矩: 15 – 10,000 Nm ▶ Direct flange connection to customer-specific drive elements 可将法兰直接连接至客户定制的驱动部件 ▶ Customized flange geometries and bolt patterns available upon request 可根据客户需求定制输出法兰尺寸与孔位	Page 3
JK2		**With Clamping Hub** 带夹紧轴套 Nominal Torque: 15 – 10,000 Nm · 额定扭矩: 15 – 10,000 Nm ▶ Quick and secure radial clamping screw installation 径向夹紧螺钉锁紧，易于安装 ▶ Available in multiple standard overall lengths 提供多种标准总长度规格选择 ▶ Low moment of inertia for high-dynamic servo drives 低转动惯量，适合高动态伺服传动	Page 4
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 ▶ High frictional surface pressure for heavy-duty torque transmission 高表面夹紧力，适用于高载荷扭矩传递 ▶ Integrated jacking thread system for effortless dismounting 集成拆卸顶丝螺纹孔设计，便于拆卸 ▶ Maximum operational reliability under reversing loads 交变载荷下具备极高运行可靠性	Page 5
JK4		**For Tapered Shafts (1:10)** 适用于 1:10 锥形轴 Nominal Torque: 15 – 150 Nm · 额定扭矩: 15 – 150 Nm ▶ Standard 1:10 tapered bore with keyway acc. to DIN 6885 标准 1:10 锥孔配平行键槽 (符合 DIN 6885 标准) ▶ Custom taper ratios and bore configurations available on request 可根据客户需求定制特殊锥度与孔径	Page 6
JK7		**With Expanding Mandrel Shaft** 带锥形扩张轴 Nominal Torque: 15 – 300 Nm · 额定扭矩: 15 – 300 Nm ▶ Designed for direct plug-in mounting into hollow shafts 专为直接插装于空心轴而设计 ▶ Space-saving, cost-effective axial installation 紧凑省空间的高性价比安装结构 ▶ Ideal interface for different shaft and bore diameters 解决不同轴径与孔径匹配的理想方案	Page 7
JK8		**With EN ISO 9409-1 Flange Connection** 带 ISO 9409-1 标准法兰连接 Max. Torque: 50 – 2,600 Nm · 最大扭矩: 50 – 2,600 Nm ▶ Mechanical interface acc. to EN ISO 9409-1 for flange-output gearboxes 符合 EN ISO 9409-1 标准，适用于法兰输出齿轮箱 ▶ Allows continuous hollow-shaft passage on right-angle gearheads 配合直角中空齿轮箱可实现连续中心穿轴或走线 ▶ Ultra-compact axial design 超紧凑轴向结构设计	Page 8

JK Series JK系列 — MISHKIN Metal Bellows Couplings MISHKIN 金属波纹管联轴器

MODEL 型号		DESIGN FEATURES & TORQUE RANGE 结构特点与扭矩范围	PAGE 页码
JP3		**High-Speed Version with Conical Clamping Ring** 高速精密型（锥套式夹紧环） Nominal Torque: 15 – 10,000 Nm · 额定扭矩: 15 – 10,000 Nm ▶ Rotationally symmetrical design for superior intrinsic balance quality 回转对称结构设计，保证极高动平衡品质 ▶ Exceptional concentricity and true-running accuracy 极高同心度与同轴运转精度 ▶ Engineered for high-speed spindle and test-bench applications 专为高转速主轴与高速测试台架应用打造	Page 9
JKL		**Compact Economy Series with Clamping Hub** 经济型（带夹紧轴套） Nominal Torque: 2 – 500 Nm · 额定扭矩: 2 – 500 Nm ▶ Quick single-screw radial clamping installation 单颗径向螺钉锁紧，易于安装 ▶ Optional Easy-Clamp system for active bore expansion 可选配自撑开夹紧系统（Easy-Clamp） ▶ Lightweight design with low moment of inertia 轻量化设计，低转动惯量	Page 10
JKH		**With Split Clamping Hub (Half-Shell Design)** 带分离式半壳夹紧轴套 Nominal Torque: 15 – 4,000 Nm · 额定扭矩: 15 – 4,000 Nm ▶ Full radial assembly and disassembly without moving adjacent shafts 无需移动两端设备轴即可进行径向拆装 ▶ Effortless installation onto pre-aligned drive trains 便于直接安装在已预先对中的传动轴系上 ▶ Low moment of inertia and high torsional rigidity 低转动惯量，高抗扭刚度	Page 11
JKS		**All-Stainless Welded Version with Clamping Hub** 全不锈钢焊接型（带夹紧轴套） Nominal Torque: 15 – 500 Nm · 额定扭矩: 15 – 500 Nm ▶ 100% stainless steel construction with plasma-welded bellows 全不锈钢结构，采用等离子焊接工艺 ▶ High thermal resistance for operating temperatures up to +300 °C 耐高温设计，工作温度最高可达 +300 °C ▶ Reliable operation in vacuum and corrosive environments 适用于真空、高温及腐蚀性介质环境	Page 12
JKC		**Short Compact Series with Clamping Hub** 短款紧凑型（带夹紧轴套） Nominal Torque: 15 – 500 Nm · 额定扭矩: 15 – 500 Nm ▶ Reduced overall length for space-restricted installations 短总长紧凑设计，适用于空间受限的安装场合 ▶ Low moment of inertia for rapid servo positioning 低转动惯量，适合快速伺服定位 ▶ Optional Easy-Clamp bore-opening system 可选配自撑开夹紧系统（Easy-Clamp）	Page 13
JKM		**Torsionally Rigid Series with Clamping Hub** 超高刚性紧凑型（带夹紧轴套） Nominal Torque: 20 – 1,000 Nm · 额定扭矩: 20 – 1,000 Nm ▶ Very high torque density and maximum torsional stiffness 极高扭矩密度与超高抗扭刚度 ▶ Ultra-compact axial envelope dimensions 超紧凑轴向结构设计 ▶ Lowest moment of inertia among all clamping hub designs 在所有夹紧轴套设计中具备最低转动惯量	Page 14

JK1



WITH FLANGE CONNECTION
带法兰安装

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

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

- **Direct flange connection to customer-specific drive components**
  可将法兰直接安装到特殊的驱动部件上
- **Customized flange geometries and bolt patterns available upon request**
  可根据客户需求定制输出法兰尺寸与孔位

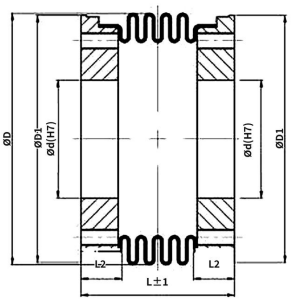
MATERIAL 材料

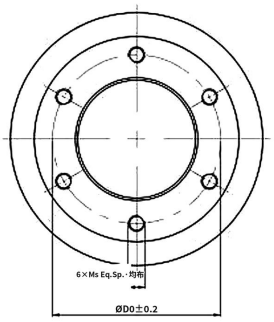
- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Flange hubs: steel**
  法兰轴套: 钢

DESIGN 结构设计

Two precision-machined mounting flanges concentrically joined to the flexible metal bellows. Short-term peak overloads of up to 1.5x the nominal torque (T_{KN}) are permissible.

两端精密法兰套与金属波纹管同心装配，可承受高达1.5倍额定扭矩（T_{KN}）的瞬时过载。





Model JK1 · JK1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]	30 | 37	36 | 44	43 | 53	50 | 62	53 | 65	56 | 70	64 | 77	81	100	145	138	150
Bellows Outside Diameter 波纹管外径	D [mm]	49	55	66	81	90	110	124	133	157	200	253	303
Flange Fit Length 法兰配合长度	L2 [mm]	7.5	10	11	13	14.5	15	16	18	22	30	30	36
Centering Bore Diameter (H7) 定位内孔直径 (H7)	d [mm]	25	28	38	50	58	65	70	75	85	100	145	190
Flange Outside Diameter 法兰外径	D1 [mm]	49	55	66	81	90	110	122	116	140	182	235	295
Flange Mounting Screw (ISO 4762) 固定螺钉 (ISO 4762)	Ms	6xM5	6xM5	6xM6	6xM6	6xM6	6xM8	6xM8	6xM10	6xM16	6xM20	8xM20	8xM34
Pitch Circle Diameter 螺栓孔中心圆直径	D0 [mm]	35	37	46	62	70	80	94	90	110	140	190	234
Moment of Inertia (10^{-3} kg·m²) 转动惯量 (10^{-3} kg·m²)	J	0.07 | 0.08	0.14 | 0.15	0.3 | 0.32	0.9 | 0.95	1.3 | 1.4	1.95 | 2.1	3 | 3.4	4.3	10.6	46	132	350
Approx. Weight 近似重量	m [kg]	0.16	0.21	0.32	0.62	0.81	1.37	1.82	1.92	3.4	9	14	23.8
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	1550 | 435	2040 | 610	3750 | 1050	2500 | 840	2000	3600	6070	19200	21800

JK2



WITH CLAMPING HUB
带夹紧轴套

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

Keyway Option 可选键槽:
Optional keyway acc. to DIN 6885 available upon request.
可根据要求提供符合 DIN 6885 标准的键槽加工。

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

- **Quick and secure radial clamping screw installation**
  径向夹紧螺钉锁紧，易于安装
- **Dual-bolt clamping system for Size 800 and above**
  规格800及以上配备双螺栓强力夹紧系统
- **Lightweight design with low moment of inertia**
  轻量化设计，低转动惯量

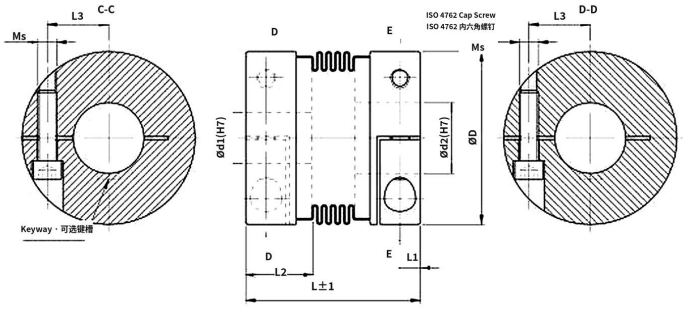
MATERIAL 材料

- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Clamping hubs: see specification table (Al / Steel)**
  夹紧轴套: 见参数表（铝 / 钢）

DESIGN 结构设计

Two radial clamping hubs concentrically mounted to the flexible metal bellows. Short-term peak overloads of up to 1.5x the nominal torque (T_{KN}) are permissible.

两端夹紧轴套与金属波纹管同心安装，可承受高达1.5倍额定扭矩（T_{KN}）的瞬时过载。



Model JK2 · JK2型 — Technical Specifications & Dimensions 技术参数表

MODEL SIZE 规格	Symbol 代号/单位	15	30	60	80	150	200	300	500	800	1500	4000	6000	10000
Nominal Torque 额定扭矩	T_{KN} [Nm]	15	30	60	80	150	200	300	500	800	1500	4000	6000	10000
Overall Length 总长度	L [mm]	59 | 66 | 99	69 | 77 | 113	83 | 93 | 130	94 | 106 | 143	95 | 107 | 144	105 | 117 | 163	111 | 125 | 200	133 | 146 | 169	140 | 179	166 | 230	225	252	288
Bellows Outside Diameter 波纹管外径	D [mm]	49	55	66	81	81	90	110	124	134	157	200	253	303
Hub Fit Length 轴套配合长度	L2 [mm]	22	27	31	36	36	41	43	51	45	55	85	107	129
Bore Diameter Range (H7) 内孔径范围 (H7)	d1 [mm]	8–28	10–30	12–35	14–42	19–42	22–45	24–60	35–60	40–75	50–80	50–90	60–140	70–180
Bore Diameter Range (H7) 内孔径范围 (H7)	d2 [mm]	8–28	10–30	12–35	14–42	19–42	22–45	24–60	35–60	40–75	50–80	50–90	60–140	70–180
Clamping Screw (ISO 4762) 夹紧螺钉 (ISO 4762)	Ms	M5	M6	M8	M10	M10	M12	M12	M16	2xM16	2xM20	2xM24	2xM24	2xM30
Screw Tightening Torque 螺钉锁紧扭矩	T_A [Nm]	8	15	40	50	70	120	130	200	250	470	1200	1200	2400
Clamping Screw Offset 螺钉孔中心距	L3 [mm]	17	19	23	27	27	31	39	41	2×48	2×55	2×65	2×90	2×117
Screw Edge Distance 螺钉孔边距	L1 [mm]	6.5	7.5	9.5	11	11	12.5	13	16.5	18	22.5	28	35	42
Moment of Inertia (10^{-3} kg·m²) 转动惯量 (10^{-3} kg·m²)	J	0.06 | 0.07 | 0.08	0.12 | 0.13 | 0.14	0.32 | 0.35 | 0.4	0.8 | 0.85 | 0.9	1.9 | 2 | 2.1	3.2 | 3.4 | 3.6	7.6 | 7.9 | 8.3	14.3 | 14.6 | 14.8	16.2 | 17	43 | 45	165	495	1214
Hub Material (Std./Opt.) 轴套材料 (标准/可选)		Al/St 铝或钢	Al/St 铝或钢	Al/St 铝或钢	Al/St 铝或钢	St/Al 钢或铝	St/Al 钢或铝	St/Al 钢或铝	St/Al 钢或铝	Steel 钢	Steel 钢	Steel 钢	Steel 钢	Steel 钢
Approx. Weight 近似重量	m [kg]	0.18	0.28	0.49	0.8	1.86	2.66	4	5.8	6.4	11.6	28.8	49.5	81
Torsional Stiffness (10^3 Nm/rad) 抗扭刚度 (10^3 Nm/rad)	C_T	20 | 15 | 14	39 | 28 | 27	76 | 55 | 54	129 | 85 | 84	175 | 110 | 97	191 | 140 | 135	450 | 350 | 340	510 | 500 | 400	780 | 711	1304 | 1180	3400	5700	10950
Max. Axial Misalignment 最大允许轴向偏差	ΔK_a [±mm]	1 | 2 | 3	1 | 2 | 3	1.5 | 2 | 3	2 | 3 | 4	2 | 3 | 4	2 | 3 | 4	2.5 | 3.5 | 4.5	2.5 | 3.5 | 4.5	3.5 | 4.5	3.5 | 4.5	3.5	3	3
Max. Lateral Misalignment 最大允许径向偏差	ΔK_r [±mm]	0.15 | 0.2 | 1	0.2 | 0.25 | 1	0.2 | 0.25 | 1	0.2 | 0.25 | 1	0.2 | 0.25 | 1	0.25 | 0.3 | 1	0.25 | 0.3 | 1	0.3 | 0.35 | 1	0.35 | 1	0.35 | 1	0.4	0.4	0.4
Max. Angular Misalignment 最大允许角向偏差	ΔK_w [±°]	1 | 1.5 | 2	1 | 1.5 | 2	1 | 1.5 | 2	1 | 1.5 | 2	1 | 1.5 | 2	1 | 1.5 | 2	1 | 1.5 | 2	1 | 1.5 | 2	1.5 | 2	1.5 | 2	1.5	1.5	1.5
Axial Spring Rate 轴向弹簧刚度	C_a [N/mm]	25 | 15 | 84	50 | 30 | 118	72 | 48 | 165	48 | 32 | 144	82 | 52 | 130	90 | 60 | 280	105 | 71 | 605	70 | 48 | 85	100 | 285	320 | 440	565	1030	985
Lateral Spring Rate 径向弹簧刚度	C_r [N/mm]	475 | 137 | 140	900 | 270 | 224	1200 | 420 | 337	920 | 290 | 401	1500 | 435 | 500	2040 | 610 | 750	3750 | 1050 | 1200	2500 | 840 | 614	2000 | 1490	3600 | 1700	6070	19200	21800

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

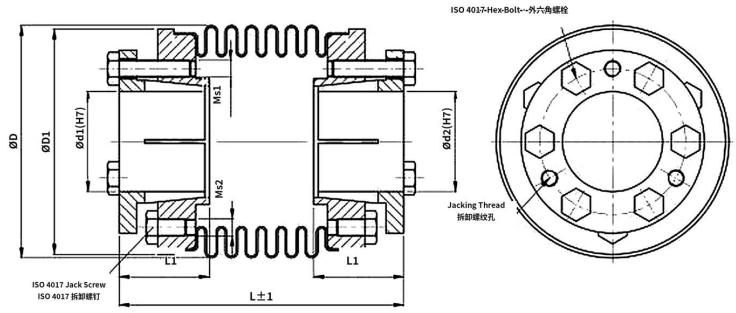
MATERIAL 材料

- **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

JK4



FOR TAPERED SHAFTS (1:10)
适用于 1:10 锥形轴

Nominal Torque: 15–150 Nm · 额定扭矩: 15–150 Nm

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

- **Direct mounting onto 1:10 tapered motor shafts**
  可直接安装于 1:10 锥形电机轴
- **Quick axial locking and dismounting**
  易于安装和拆卸
- **High installed concentricity and runout accuracy**
  极高的安装同轴度与运转精度

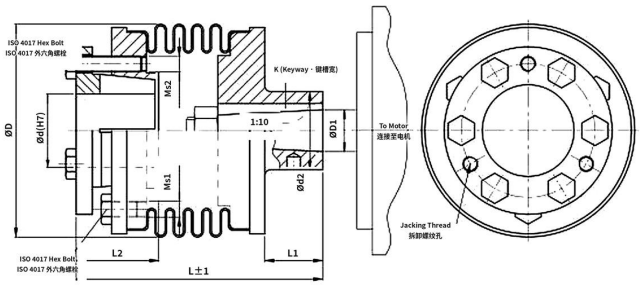
MATERIAL 材料

- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Hubs: steel**
  轴套: 钢

DESIGN 结构设计

Conical clamping bush on one end opposite a 1:10 tapered bore with parallel keyway acc. to DIN 6885 on the other end. Short-term peak overloads of up to 1.5x the nominal torque (T_{KN}) are permissible.

一端为锥形夹紧系统，另一端为符合 DIN 6885 标准的带键槽 1:10 圆锥孔。可承受1.5倍额定扭矩的瞬时过载。



Model JK4 · JK4型 — Technical Specifications & Dimensions 技术参数表

MODEL SIZE 规格	Symbol 代号/单位	15		30		60		150	
Nominal Torque 额定扭矩	T_{KN} [Nm]	15		30		60		150	
Overall Length 总长度	L [mm]	47	54	68	76	72	82	82	94
Bellows Outside Diameter 波纹管外径	D [mm]	49		55		66		81	
Conical Hub Fit Length 锥套端配合长度	L2 [mm]	19		22		27		32	
Cylindrical Bore Range (H7) 圆柱孔径范围 (H7)	d [mm]	10–22		12–23		12–29		15–37	
Taper Hub Outside Diameter 锥孔端轴套外径	d2 [mm]	20		27		30		30	
Taper Bore Fit Length 锥孔配合长度	L1 [mm]	8.5		22		18		20	
Clamping Screw (ISO 4017) 紧固螺栓 (ISO 4017)	Ms1	6xM4		6xM5		6xM5		6xM6	
Screw Tightening Torque 螺栓锁紧扭矩	T_A [Nm]	4		8		8		12	
Jack Screw for Dismounting (ISO 4017) 拆卸螺栓 (ISO 4017)	Ms2	3xM4		3xM4		3xM5		3xM5	
Taper Major Diameter (1:10) 锥孔大端直径 (1:10)	D1 [mm]	11		16		16		16	
Keyway Width (DIN 6885) 键槽宽度 (DIN 6885)	K [mm]	4		5		5		5	
Moment of Inertia (10^{-3} kg·m²) 转动惯量 (10^{-3} kg·m²)	J	0.11	0.12	0.22	0.27	0.58	0.61	1.1	1.4
Approx. Weight 近似重量	m [kg]	0.26		0.41		0.8		1.36	
Torsional Stiffness (10^3 Nm/rad) 抗扭刚度 (10^3 Nm/rad)	C_T	20	15	39	28	76	55	175	110
Max. Axial Misalignment 最大允许轴向偏差	ΔK_a [±mm]	1	2	1	2	1.5	2	2	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
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
Axial Spring Rate 轴向弹簧刚度	C_a [N/mm]	25	15	50	30	72	48	82	52
Lateral Spring Rate 径向弹簧刚度	C_r [N/mm]	475	137	900	270	1200	420	1500	435

JK7



WITH EXPANDING MANDREL SHAFT
带锥形扩张轴

Nominal Torque: 15–300 Nm · 额定扭矩: 15–300 Nm

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

- **Direct plug-in connection for hollow-shaft gearboxes and encoders**
  专为直接插装于空心轴齿轮箱或编码器而设计
- **Short axial envelope saves valuable installation space**
  紧凑短轴向设计，大幅节省安装空间
- **Ideal solution for interfacing mismatched shaft and bore diameters**
  完美解决不同轴径与孔径之间的匹配连接

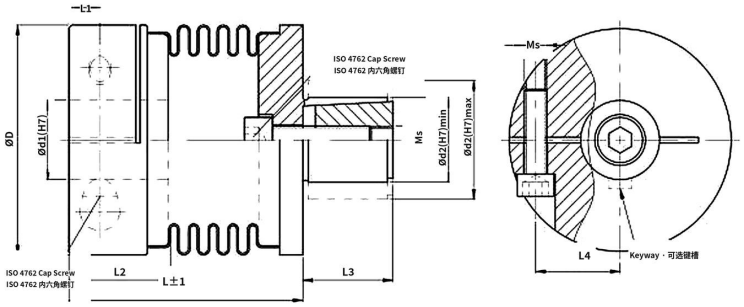
MATERIAL 材料

- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Clamping hub: aluminum (Al)**
  夹紧轴套: 高强度铝合金
- **Expanding mandrel shaft: hardened steel**
  锥形扩张轴系统: 钢

DESIGN 结构设计

Radial clamping hub on one end combined with a tapered expanding mandrel shaft on the other end. Short-term peak overloads of up to 1.5x the nominal torque (T_{KN}) are permissible.

一端配备径向夹紧轴套，另一端配备锥形扩张轴。可承受1.5倍额定扭矩的瞬时过载。



Model JK7 · JK7型 — Technical Specifications & Dimensions 技术参数表

MODEL SIZE 规格	Symbol 代号/单位	15		30		60		150		300	
Nominal Torque 额定扭矩	T_{KN} [Nm]	15		30		60		150		300	
Overall Length 总长度	L [mm]	45	52	53	61	62	72	71	83	84	98
Bellows Outside Diameter 波纹管外径	D [mm]	49		55		66		81		110	
Clamping Hub Fit Length 夹紧轴套配合长度	L2 [mm]	22		27		32		36		45	
Expanding Shaft Fit Length 扩张轴配合长度	L3 [mm]	20		25		27		32		43	
Clamping Bore Range (H7) 内孔直径范围 (H7)	d1 [mm]	8–28		10–30		12–35		19–42		30–60	
Expanding Shaft Diameter (H7) 扩张轴外径范围 (H7)	d2 [mm]	13–25		14–30		23–38		26–42		38–60	
Clamping Screw (ISO 4762) 紧固螺钉 (ISO 4762)	Ms	M5		M6		M8		M10		M12	
Screw Tightening Torque 螺钉锁紧扭矩	T_A [Nm]	8		14		38		65		120	
Clamping Screw Offset 螺钉孔中心距	L4 [mm]	17		19		23		27		39	
Screw Edge Distance 螺钉孔边距	L1 [mm]	6.5		7.5		9.5		11		13	
Moment of Inertia (10^{-3} kg·m²) 转动惯量 (10^{-3} kg·m²)	J	0.07	0.08	0.14	0.15	0.23	0.26	2.2	2.4	6.5	8.9
Hub Material 轴套材料		Al 铝		Al 铝		Al 铝		Al 铝		Al 铝	
Approx. Weight 近似重量	m [kg]	0.16		0.4		0.5		1.7		4	
Torsional Stiffness (10^3 Nm/rad) 抗扭刚度 (10^3 Nm/rad)	C_T	20	15	39	28	76	55	175	110	450	350
Max. Axial Misalignment 最大允许轴向偏差	ΔK_a [±mm]	1	2	1	2	1.5	2	2	3	2.5	3.5
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
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
Axial Spring Rate 轴向弹簧刚度	C_a [N/mm]	20	12	50	30	72	48	82	52	105	71
Lateral Spring Rate 径向弹簧刚度	C_r [N/mm]	315	108	900	270	1200	380	1550	534	3750	1050

JK8



WITH EN ISO 9409-1 FLANGE CONNECTION
带 ISO 9409-1 标准法兰连接
Max. Torque: 50–2,600 Nm · 最大扭矩: 50–2,600 Nm

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

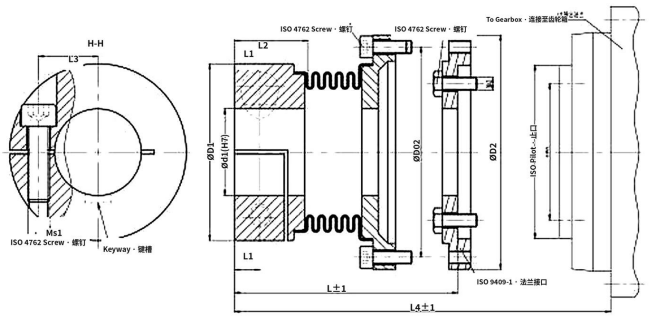
- **Standardized mechanical interface acc. to EN ISO 9409-1 for precision gearboxes**
  符合 EN ISO 9409-1 标准接口，适用于法兰输出精密齿轮箱
- **Enables continuous hollow-shaft passage with right-angle gearheads**
  配合直角中空齿轮箱，允许连续空心轴或线缆穿过
- **Ultra-short, high-stiffness construction**
  紧凑高刚性设计

MATERIAL 材料

- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Clamping hub: up to Size 300 aluminum, Size 1500 steel**
  夹紧轴套: 规格300及以下采用铝，规格1500采用钢
- **ISO adapter flange: high-strength steel**
  ISO适配法兰: 钢

DESIGN 结构设计

Radial clamping hub on one end with an integral bellows collar and EN ISO 9409-1 adapter flange on the other end. Maximum transmittable torque depends on the selected bore diameter d1.
一端配备夹紧轴套，另一端配备符合 EN ISO 9409-1 标准的变径适配法兰。最大可传递扭矩取决于所选孔径 d1。



Model JK8 · JK8型 — Technical Specifications & Dimensions 技术参数表

MODEL SIZE 规格	Symbol 代号/单位	15	60	150	300	1500
ISO 9409-1 Pilot Diameter (H7) ISO法兰止口直径 (H7)	mm	40	63	80	100	160
ISO Flange Bolt Circle ISO法兰螺孔分度圆	mm	31.5/8xM5	50/8xM6	63/12xM6	80/12xM8	125/12xM10
Max. Transmittable Torque 最大扭矩	T_{max} [Nm]	50	210	380	750	2600
Length (without Adapter Flange) 长度 (不含适配法兰)	L±1 [mm]	48.5	67	72	90	140
Overall Length (with ISO Flange) 总长度 (含ISO法兰)	L4±1 [mm]	68	97	101	128	190
Hub Outside Diameter 轴套外径	D1 [mm]	49	66	82	110	157
Adapter Flange Outside Diameter 法兰外径	D2 [mm]	63.5	86	108	132	188
Hub Fit Length 装配长度	L2 [mm]	16.5	23	27.5	34	55
Bore Diameter Range (H7) 内孔直径范围 (H7)	d1 [mm]	12–28	14–35	19–42	24–60	50–80
Collar Bolt Circle Diameter 法兰端螺钉中心圆	D02 [mm]	56.5	76	97	120	170
Collar Fastening Screws (ISO 4762) 法兰端螺钉 (ISO 4762)	mm	10xM4	10xM5	10xM6	12xM6	18xM8
Hub Clamping Screw (ISO 4762) 固定螺钉 (ISO 4762)	Ms1	1xM5	1xM8	1xM10	1xM12	2xM20
Screw Tightening Torque 螺钉锁紧扭矩	T_A [Nm]	8	45	80	120	470
Clamping Screw Offset 螺钉孔中心距	L3 [mm]	1×17.5	1×23	1×27	1×39	2×55
Screw Edge Distance 螺钉孔边距	L1 [mm]	6.5	9.5	11	13	22.5
Moment of Inertia (10^{-3} kg·m²) 转动惯量 (10^{-3} kg·m²)	J	0.15	0.65	1.3	5.5	45
Approx. Weight 近似重量	m [kg]	0.29	0.7	1	2.8	10
Max. Axial Misalignment 最大允许轴向偏差	ΔK_a [±mm]	0.25	0.25	0.25	0.25	0.25
Max. Lateral Misalignment 最大允许径向偏差	ΔK_r [±mm]	1	1.5	2	2.5	3
Max. Angular Misalignment 最大允许角向偏差	ΔK_w [±°]	1	1	1	1	1

JP3



HIGH-SPEED VERSION WITH CONICAL CLAMPING RING
锥套式夹紧型（高速精密版）

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

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

- **Superior intrinsic balance quality due to rotationally symmetrical design**
  回转对称设计保证极高动平衡品质
- **Engineered for high rotational speeds**
  专为高转速工况设计
- **Exceptionally smooth, vibration-free running**
  运转极度平稳顺滑

MATERIAL 材料

- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Hubs & tapered clamping rings: steel**
  轴套及锁紧锥套: 钢

DESIGN 结构设计

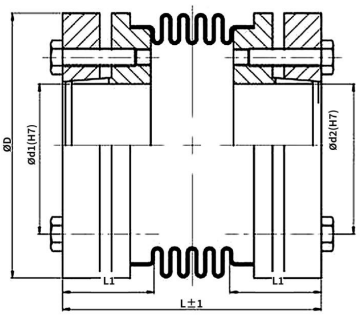
Two precision-machined conical clamping ring hubs mounted concentrically to the flexible metal bellows. Short-term peak overloads of up to 1.5x the nominal torque (T_{KN}) are permissible.

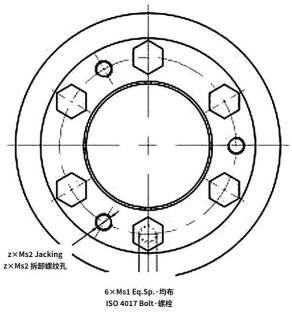
两端精密锥形夹紧环与金属波纹管同心安装。可承受高达1.5倍额定扭矩的瞬时过载。

FIT CLEARANCE 配合公差

Recommended shaft-to-hub diametral clearance: 0.01–0.025 mm

建议轴与轴套配合间隙: 0.01–0.025 mm





Model JP3 · JP3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

JKL



COMPACT ECONOMY SERIES WITH CLAMPING HUB
经济型（带夹紧轴套）

Nominal Torque: 2–500 Nm · 额定扭矩: 2–500 Nm

Optional Easy-Clamp System 可选系统:
Integrated bore-opening system to actively expand the clamping bore during installation and removal by backing out the clamping screw.
自撑开夹紧系统，可在安装和拆卸时反向拧松夹紧螺钉以撑开轴孔。

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

- **Quick radial clamping screw installation**
  易于安装
- **Lightweight construction with low moment of inertia**
  重量轻，低转动惯量
- **Cost-effective series for standard servo applications**
  高性价比经济型设计

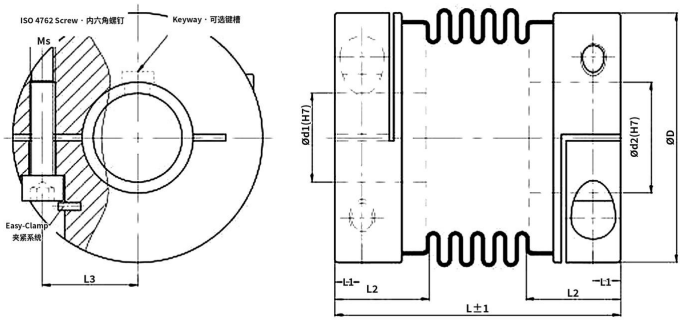
MATERIAL 材料

- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Clamping hubs: see specification table (Al / Steel)**
  夹紧轴套: 见参数表（铝 / 钢）

DESIGN 结构设计

Two radial clamping hubs concentrically mounted to the flexible metal bellows. Short-term peak overloads of up to 1.5x the nominal torque (T_{KN}) are permissible.

两端锁紧轴套与金属波纹管同轴安装，可承受1.5倍额定扭矩的瞬时过载。



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

MODEL SIZE 规格	Symbol 代号/单位	2	4.5	10	15	30	60	80	150	300	500
Nominal Torque 额定扭矩	T_{KN} [Nm]	2	4.5	10	15	30	60	80	150	300	500
Overall Length 总长度	L [mm]	30	40	44	58	68	79	92	92	109	114
Bellows Outside Diameter 波纹管外径	D [mm]	25	32	40	49	56	66	82	82	110	123
Hub Fit Length 轴套配合长度	L2 [mm]	10	13	13	21.5	26	28	32.5	32.5	41	42.5
Bore Diameter Range (H7) 内孔径范围 (H7)	d1 [mm]	4–12.7	6–16	6–24	8–28	10–32	14–35	16–42	19–42	24–60	35–62
Bore Diameter Range (H7) 内孔径范围 (H7)	d2 [mm]	4–12.7	6–16	6–24	8–28	10–32	14–35	16–42	19–42	24–60	35–62
Clamping Screw (ISO 4762) 夹紧螺钉 (ISO 4762)	Ms	M3	M4	M4	M5	M6	M8	M10	M10	2xM12	2xM16
Screw Tightening Torque 螺钉锁紧扭矩	T_A [Nm]	2.3	4	4.5	8	15	40	70	85	120	200
Clamping Screw Offset 螺钉孔中心距	L3 [mm]	8	11	14	17	20	23	27	27	39	41
Screw Edge Distance 螺钉孔边距	L1 [mm]	4	5	5	6.5	7.5	9.5	11	11	13	17
Moment of Inertia (10^{-3} kg·m²) 转动惯量 (10^{-3} kg·m²)	J	0.002	0.007	0.016	0.065	0.12	0.3	0.75	1.8 | 0.8	7.5 | 3.1	11.7 | 4.9
Hub Material (Std./Opt.) 轴套材料 (标准/可选)		Al/St 铝或钢	Al/St 铝或钢	Al/St 铝或钢	Al/St 铝或钢	Al/St 铝或钢	Al/St 铝或钢	Al/St 铝或钢	St/Al 钢或铝	St/Al 钢或铝	St/Al 钢或铝
Approx. Weight 近似重量	m [kg]	0.02	0.05	0.06	0.16	0.25	0.4	0.7	1.7 | 0.75	3.8 | 1.6	4.9 | 2.1
Torsional Stiffness (10^3 Nm/rad) 抗扭刚度 (10^3 Nm/rad)	C_T	1.5	7	9	23	31	72	80	141	157	290
Max. Axial Misalignment 最大允许轴向偏差	ΔK_a [±mm]	0.5	1	1	1	1	1.5	2	2	2	2.5
Max. Lateral Misalignment 最大允许径向偏差	ΔK_r [±mm]	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Max. Angular Misalignment 最大允许角向偏差	ΔK_w [±°]	1	1	1	1	1	1	1	1	1	1
Axial Spring Rate 轴向弹簧刚度	C_a [N/mm]	8	35	30	30	50	67	44	77	112	72
Lateral Spring Rate 径向弹簧刚度	C_r [N/mm]	50	350	320	315	366	679	590	960	2940	1450

JKH



WITH SPLIT CLAMPING HUB (HALF-SHELL DESIGN)
带分离式半壳夹紧轴套

Nominal Torque: 15–4,000 Nm · 额定扭矩: 15–4,000 Nm

Optional Easy-Clamp System 可选系统:
Integrated bore-opening system to actively expand the clamping bore during installation and removal.
自撑开夹紧系统，可在安装和拆卸时轻松撑开轴孔。

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

- **Full radial installation and removal without axial shaft displacement**
  可进行径向拆装，无需轴向移动连接设备
- **Effortless mounting onto pre-aligned shaft trains**
  易于安装在已预先对准的轴系上
- **Low moment of inertia and high dynamic stiffness**
  低转动惯量，高动态刚度

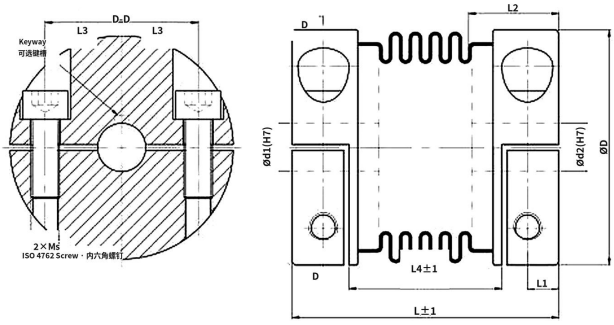
MATERIAL 材料

- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Split clamping hubs: see specification table (Al / Steel)**
  分离式夹紧轴套: 见参数表（铝 / 钢）

DESIGN 结构设计

Two split half-shell clamping hubs with two ISO 4762 clamping screws per hub. Short-term peak overloads of up to 1.5x the nominal torque (T_{KN}) are permissible.

两端分离式半壳轴套各配备两颗 ISO 4762 锁紧螺钉，可承受1.5倍额定扭矩的瞬时过载。



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

MODEL SIZE 规格	Symbol 代号/单位	15	30	60	80	150	200	300	500	800	1500	4000
Nominal Torque 额定扭矩	T_{KN} [Nm]	15	30	60	80	150	200	300	500	800	1500	4000
Overall Length 总长度	L [mm]	59 | 66	69 | 77	83 | 93	94 | 106	95 | 107	105 | 117	111 | 125	133 | 146	140	166	225
Bellows Outside Diameter 波纹管外径	D [mm]	49	55	66	81	81	90	110	124	134	157	200
Hub Fit Length 轴套配合长度	L2 [mm]	22	27	31	36	36	41	43	51	45	55	85
Bore Diameter Range (H7) 内孔径范围 (H7)	d1 [mm]	8–28	10–30	12–35	14–42	19–42	22–45	24–60	35–60	40–75	50–80	50–90
Bore Diameter Range (H7) 内孔径范围 (H7)	d2 [mm]	8–28	10–30	12–35	14–42	19–42	22–45	24–60	35–60	40–75	50–80	50–90
Clamping Screw (ISO 4762) 夹紧螺钉 (ISO 4762)	Ms	M5	M6	M8	M10	M10	M12	M12	M16	2xM16	2xM20	2xM24
Screw Tightening Torque 螺钉锁紧扭矩	T_A [Nm]	8	15	40	50	70	120	130	200	250	470	1200
Clamping Screw Offset 螺钉孔中心距	L3 [mm]	17	19	23	27	27	31	39	41	48	55	65
Screw Edge Distance 螺钉孔边距	L1 [mm]	6.5	7.5	9.5	11	11	12.5	13	16.5	18	22.5	28
Moment of Inertia (10^{-3} kg·m²) 转动惯量 (10^{-3} kg·m²)	J	0.07 | 0.08	0.14 | 0.15	0.23 | 0.26	0.65 | 0.67	2.5 | 3.2	4.5 | 5.4	8.5 | 10.5	17.3 | 19.6	24.3	49.2	165
Hub Material (Std./Opt.) 轴套材料 (标准/可选)		Al/St 铝或钢	Al/St 铝或钢	Al/St 铝或钢	Al/St 铝或钢	St/Al 钢或铝	St/Al 钢或铝	St/Al 钢或铝	St/Al 钢或铝	Steel 钢	Steel 钢	Steel 钢
Approx. Weight 近似重量	m [kg]	0.15	0.3	0.4	0.8	1.7	2.5	4	7.5	7	12	28
Torsional Stiffness (10^3 Nm/rad) 抗扭刚度 (10^3 Nm/rad)	C_T	20 | 15	39 | 28	76 | 55	129 | 85	175 | 110	191 | 140	450 | 350	510 | 500	780	1304	3400
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 | 3	2.5 | 3.5	2.5 | 3.5	3.5	3.5	3.5
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	0.2 | 0.25	0.25 | 0.3	0.25 | 0.3	0.3 | 0.35	0.35	0.35	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 | 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	48 | 32	82 | 52	90 | 60	105 | 71	70 | 48	100	320	565
Lateral Spring Rate 径向弹簧刚度	C_r [N/mm]	475 | 137	900 | 270	1200 | 420	920 | 290	1550 | 435	2040 | 610	3750 | 1050	2500 | 840	2000	3600	6070

JKS



ALL-STAINLESS WELDED VERSION WITH CLAMPING HUB
全不锈钢焊接型（带夹紧轴套）

Nominal Torque: 15–500 Nm · 额定扭矩: 15–500 Nm

Optional Easy-Clamp System 可选系统:
Integrated bore-opening system to actively expand the clamping bore during installation and removal.
自撑开夹紧系统，可在安装和拆卸时轻松撑开轴孔。

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

- **Engineered for high temperatures, vacuum, and aggressive media**
  适用于高温、真空和腐蚀性介质环境
- **Compact, corrosion-resistant construction**
  紧凑耐腐蚀全不锈钢设计
- **Plasma-welded bellows-to-hub connection**
  波纹管与轴套采用全焊接工艺

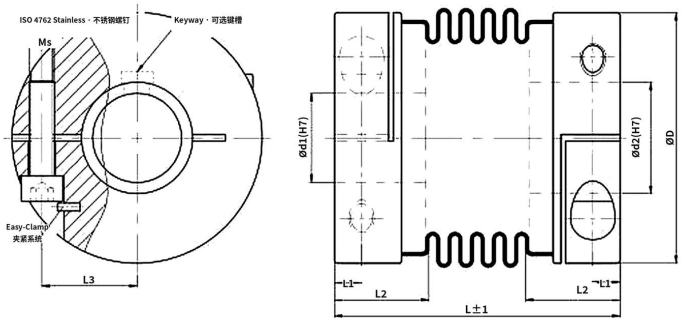
MATERIAL 材料

- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Clamping hubs & screws: high-grade stainless steel**
  夹紧轴套及螺钉: 高性能不锈钢

DESIGN 结构设计

Two stainless steel clamping hubs concentrically welded to the flexible metal bellows. Short-term peak overloads of up to 1.5x the nominal torque (T_{KN}) are permissible. Operating temperature range: -40 °C to +300 °C.

两端不锈钢锁紧轴套与金属波纹管同轴焊接，可承受1.5倍额定扭矩的瞬时过载。工作温度范围：-40 °C 至 +300 °C。



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

MODEL SIZE 规格	Symbol 代号/单位	15	30	60	150	300	500
Nominal Torque 额定扭矩	T_{KN} [Nm]	15	30	60	150	300	500
Overall Length 总长度	L [mm]	45	52	66	76	89	95
Bellows Outside Diameter 波纹管外径	D [mm]	49	56	66	82	110	123
Hub Fit Length 轴套配合长度	L2 [mm]	17	20	24	30	34	35
Bore Diameter Range (H7) 内孔径范围 (H7)	d1 [mm]	12–28	14–32	16–35	19–42	24–60	32–75
Bore Diameter Range (H7) 内孔径范围 (H7)	d2 [mm]	12–28	14–32	16–35	19–42	24–60	32–75
Clamping Screw (ISO 4762) 夹紧螺钉 (ISO 4762)	Ms	M5	M6	M8	M10	M12	M12
Screw Tightening Torque 螺钉锁紧扭矩	T_A [Nm]	8	15	40	75	120	125
Clamping Screw Offset 螺钉孔中心距	L3 [mm]	17.5	20	23	27	39	45
Screw Edge Distance 螺钉孔边距	L1 [mm]	6	7.5	9.5	11	13	13
Moment of Inertia (10^{-3} kg·m²) 转动惯量 (10^{-3} kg·m²)	J	0.1	0.2	0.53	1.5	2.9	3.5
Approx. Weight 近似重量	m [kg]	0.27	0.42	0.78	1.5	2.9	3.5
Torsional Stiffness (10^3 Nm/rad) 抗扭刚度 (10^3 Nm/rad)	C_T	23	31	72	141	157	290
Max. Axial Misalignment 最大允许轴向偏差	ΔK_a [±mm]	1	1	1.5	2	2	2.5
Max. Lateral Misalignment 最大允许径向偏差	ΔK_r [±mm]	0.2	0.2	0.2	0.2	0.2	0.2
Max. Angular Misalignment 最大允许角向偏差	ΔK_w [±°]	1	1	1	1	1	1
Axial Spring Rate 轴向弹簧刚度	C_a [N/mm]	30	50	67	77	112	72
Lateral Spring Rate 径向弹簧刚度	C_r [N/mm]	315	366	679	960	2940	2200
Max. Rotational Speed 最高工作转速	n_{max} [min^{-1}]	60000	50500	50000	40500	40000	30000

JKC



SHORT COMPACT SERIES WITH CLAMPING HUB
短款紧凑型（带夹紧轴套）

Nominal Torque: 15–500 Nm · 额定扭矩: 15–500 Nm

Optional Easy-Clamp System 可选系统:
Integrated bore-opening system to actively expand the clamping bore during installation and removal.
自撑开夹紧系统，可在安装和拆卸时轻松撑开轴孔。

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

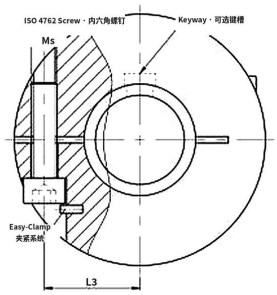
- **Short axial length for space-restricted installations**
  短轴向尺寸设计，适用于空间受限的安装场合
- **Lightweight design with low moment of inertia**
  重量轻，低转动惯量
- **Quick radial clamping screw installation**
  易于安装

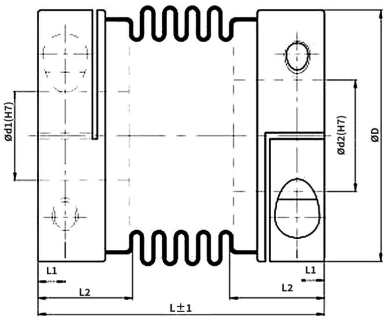
MATERIAL 材料

- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Clamping hubs: see specification table (Al / Steel)**
  夹紧轴套: 见参数表（铝 / 钢）

DESIGN 结构设计

Two short radial clamping hubs concentrically mounted to the flexible metal bellows. Short-term peak overloads of up to 1.5x the nominal torque (T_{KN}) are permissible.
两端紧凑型锁紧轴套与金属波纹管同轴安装，能承受1.5倍额定扭矩的瞬时过载。





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

MODEL SIZE 规格	Symbol 代号/单位	15	30	60	150	300	500
Nominal Torque 额定扭矩	T_{KN} [Nm]	15	30	60	150	300	500
Overall Length 总长度	L [mm]	48	58	67	78	94	100
Bellows Outside Diameter 波纹管外径	D [mm]	49	56	66	82	110	123
Hub Fit Length 轴套配合长度	L2 [mm]	16.5	21	23	27.5	34	34
Bore Diameter Range (H7) 内孔径范围 (H7)	d1 [mm]	8–28	12–32	14–35	19–42	24–60	32–75
Bore Diameter Range (H7) 内孔径范围 (H7)	d2 [mm]	8–28	12–32	14–35	19–42	24–60	32–75
Clamping Screw (ISO 4762) 夹紧螺钉 (ISO 4762)	Ms	M5	M6	M8	M10	M12	M12
Screw Tightening Torque 螺钉锁紧扭矩	T_A [Nm]	8	15	40	75	120	125
Clamping Screw Offset 螺钉孔中心距	L3 [mm]	17.5	20	23	27	39	45
Screw Edge Distance 螺钉孔边距	L1 [mm]	6.5	7.5	9.5	11	13	13
Moment of Inertia (10^{-3} kg·m²) 转动惯量 (10^{-3} kg·m²)	J	0.05	0.1	0.26	0.65	6.3	9
Hub Material 轴套材料		Al 铝	Al 铝	Al 铝	Steel 钢	Steel 钢	Steel 钢
Approx. Weight 近似重量	m [kg]	0.13	0.21	0.37	0.72	3.26	3.52
Torsional Stiffness (10^3 Nm/rad) 抗扭刚度 (10^3 Nm/rad)	C_T	23	31	72	141	157	290
Max. Axial Misalignment 最大允许轴向偏差	ΔK_a [±mm]	1	1	1.5	2	2	2.5
Max. Lateral Misalignment 最大允许径向偏差	ΔK_r [±mm]	0.2	0.2	0.2	0.2	0.2	0.2
Max. Angular Misalignment 最大允许角向偏差	ΔK_w [±°]	1	1	1	1	1	1
Axial Spring Rate 轴向弹簧刚度	C_a [N/mm]	30	50	67	77	112	72
Lateral Spring Rate 径向弹簧刚度	C_r [N/mm]	315	366	679	960	2940	2200
Max. Rotational Speed 最高工作转速	n_{max} [min^{-1}]	80000	70000	60000	50000	40000	30000

JKM



TORSIONALLY RIGID ULTRA-COMPACT SERIES WITH CLAMPING HUB
超紧凑高刚性型（带夹紧轴套）

Nominal Torque: 20–1,000 Nm · 额定扭矩: 20–1,000 Nm

Key Application 重点应用:
Specifically engineered for torque transducers and test-bench measurement shafts.
专为扭矩传感器与测试台架测量轴连接而设计。

TECHNICAL CHARACTERISTICS 技术特性

FEATURES 特点

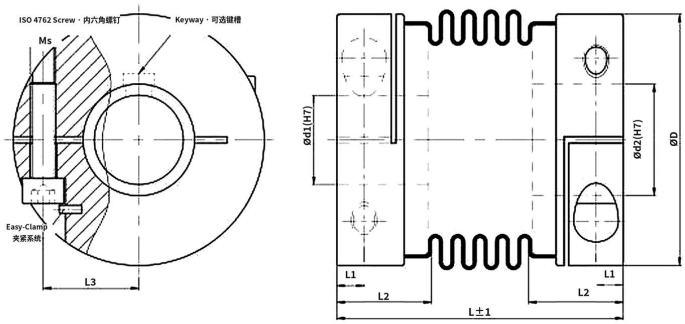
- **Ultra-compact axial dimensions**
  极度紧凑的轴向尺寸
- **Exceptionally high torque density**
  极高扭矩密度
- **Maximum torsional stiffness with minimal moment of inertia**
  高抗扭刚度，低转动惯量

MATERIAL 材料

- **Bellows: high-grade stainless steel**
  波纹管: 高性能不锈钢
- **Clamping hubs: see specification table (Al / Steel)**
  夹紧轴套: 见参数表（铝 / 钢）

DESIGN 结构设计

Two radial clamping hubs concentrically mounted to a short, high-stiffness metal bellows. Short-term peak overloads of up to 1.5x the nominal torque (T_{KN}) are permissible.
两端锁紧轴套与短款高刚度金属波纹管同轴安装，能承受1.5倍额定扭矩的瞬时过载。



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

MODEL SIZE 规格	Symbol 代号/单位	20	200	400	1000
Nominal Torque 额定扭矩	T_{KN} [Nm]	20	200	400	1000
Overall Length 总长度	L [mm]	40	59	75	89
Bellows Outside Diameter 波纹管外径	D [mm]	49	66	82	110
Hub Fit Length 轴套配合长度	L2 [mm]	16.5	23	27.5	34
Bore Diameter Range (H7) 内孔径范围 (H7)	d1 [mm]	15–28	24–35	32–42	40–60
Bore Diameter Range (H7) 内孔径范围 (H7)	d2 [mm]	15–28	24–35	32–42	40–60
Clamping Screw (ISO 4762) 夹紧螺钉 (ISO 4762)	Ms	M5	M8	M10	M12
Screw Tightening Torque 螺钉锁紧扭矩	T_A [Nm]	8	40	60	130
Clamping Screw Offset 螺钉孔中心距	L3 [mm]	17	23	27	39
Screw Edge Distance 螺钉孔边距	L1 [mm]	6	9.5	11	13
Moment of Inertia (10^{-3} kg·m²) 转动惯量 (10^{-3} kg·m²)	J	0.05	0.18	0.62	7.2
Hub Material 轴套材料		Al 铝	Al 铝	Al 铝	Steel 钢
Approx. Weight 近似重量	m [kg]	0.13	0.4	0.7	3.5
Torsional Stiffness (10^3 Nm/rad) 抗扭刚度 (10^3 Nm/rad)	C_T	41.9	138	170	570
Max. Axial Misalignment 最大允许轴向偏差	ΔK_a [±mm]	1	1.5	1	2
Max. Lateral Misalignment 最大允许径向偏差	ΔK_r [±mm]	0.06	0.08	0.1	0.1
Max. Angular Misalignment 最大允许角向偏差	ΔK_w [±°]	0.5	0.5	0.5	0.5
Axial Spring Rate 轴向弹簧刚度	C_a [N/mm]	55.8	153	114	148
Lateral Spring Rate 径向弹簧刚度	C_r [N/mm]	3710	11000	6058	9010
Max. Rotational Speed 最高工作转速	n_{max} [min^{-1}]	80000	60000	50000	40000