

# LK28 系列

LK28 Series

**使用注意事项：****CAUTIONS:**

1. 请务必遵守偏心，偏角，轴向的允许公差。
2. 螺栓类请务必以指定的转矩拧紧。
3. 联轴器左右内径的同心度通过使用专用夹具实现高精度组装。万一联轴器受到强冲击时，可能会无法保持组装精度而在使用中发生破损，请在操作过程中加以留意。
4. 使用环境范围为-30°C-120°C。虽具备耐水性和耐油性，但极度粘附的环境也会导致产品劣化，请避免此类情况。
5. 弹性元件由薄薄的不锈钢膜片组成，使用时注意避免划伤。
6. 插入安装轴前，请勿拧紧加压螺栓。

1. Be sure to observe allowable tolerances of eccentricity, deflection and axis.
2. Bolts must be tightened with specified torque.
3. The concentricity of left and right inner diameters of the coupling is achieved by using special equipment. In case that the coupling is under strong impact, it may not be able to maintain high accuracy and be damaged in use, please pay attention to it during operation.
4. The use range is - 30°C - 120°C. Despite water and oil resistance, extreme adhesion can also lead to deterioration of the product, avoid this kind of situation.
5. Plate springs consist of thin stainless steel diaphragms, when using, care should be taken to avoid scratches.
6. Do not tighten the clamping bolt before inserting the installation shaft.

**安装方式：****INSTALLATION:**

1. 确认联轴器的压紧螺栓有无松动，去除轴及联轴器内径面的锈迹，灰尘及油等。特别是，对联轴器摩擦系数有显著影响的各类润滑脂，绝不可有粘附。  
Confirm whether the clamping bolt of the coupling is loose, and remove the rust, dust and oil on the shaft and the inner diameter of the coupling. In particular, all kinds of greases that have a significant impact on the friction coefficient of the coupling must not have adhesion.
2. 对好键槽，请将联轴器插入电动机轴和从动轴。插入时，请勿在联轴器的弹性元件上施加过大的压缩和拉伸力，特别是在把联轴器安装至电动机后将联轴器插入从动轴时，可能会因错误操作而施加过大的压缩力，请注意。  
For proper keyway, please insert the coupling into the motor shaft and driven shaft. When inserting, do not apply too much compression and tensile force on the elastic of the coupling, especially when inserting the coupling into the driven shaft after installing the coupling to the motor, it may exert too much compression force due to wrong operation, please note.
3. 在夹紧螺栓或定位螺丝处于松动状态下，请确认联轴器是否能沿轴向和旋转方向轻微移动。如果无法顺畅移动，请重新调整两轴的定心。该方法推荐用作左右同心度的简易确认方法，如果无法使用同样的确认方法，请使用其他测量方法确认安装精度。  
When the clamping bolt or positioning screw is loose, please confirm whether the coupling can move slightly along the axial direction and rotation direction. If it can not move smoothly, please readjust the centering of the two shafts. This method is recommended as a simple confirmation method of left and right concentricity. If the same confirmation method cannot be used, please use other measurement methods to confirm the installation accuracy.
4. 调整好同轴度后，将键槽上面的加压螺栓拧紧。  
After the coaxiality is adjusted, tighten the pressure bolt slightly diagonally

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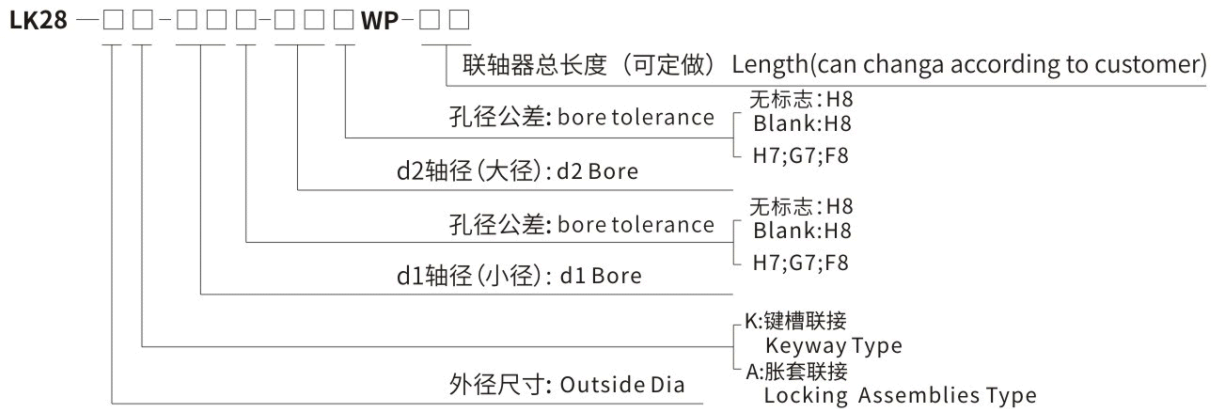
LK28 Series Long span coupling (Carbon Fiber Tube)

## 特点 Features

- 用键槽或者胀紧套联接的膜片型联轴器
- 零回转间隙, 拆装方便
- 高灵敏度, 传递力矩大
- 顺时针与逆时针回转特性完全相同
- 不锈钢膜片补偿径向、角向和轴向偏差
- 常用于长跨距的精密传动
- 质量轻, 韧性好、噪音小、振动小
- Using keyway or locking assemblies connect, spring plates coupling
- Zero backlash
- Excellent response and high torque capacity
- Identical clockwise and anticlockwise rotational characteristics
- Stainless steel spring plates absorb parallel, angular misalignments and shaft end-play
- Using in long span drive
- Light weight, good toughness, low noise and vibration



## 选型举例: Ordering Information



## 例: LK28-68K-15-22WP-L291

LK28: 系列号, 材料为45# 钢、碳纤维管、不锈钢膜片

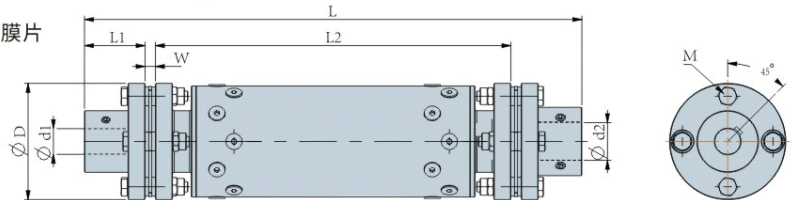
68K: 外径尺寸: 68mm, 键槽联接

15: d1孔径为: 15mm, 公差为H8

22: d2孔径为: 22mm, 公差为H8

L291: 长度: 291mm

孔径公称请按照d1 (小径) - d2 (大径) 的顺序标示



### Example: LK28-68K-15-22WP-L291

LK28: Series No, Material: C45 steel, carbon fiber tube, stainless steel diaphragm

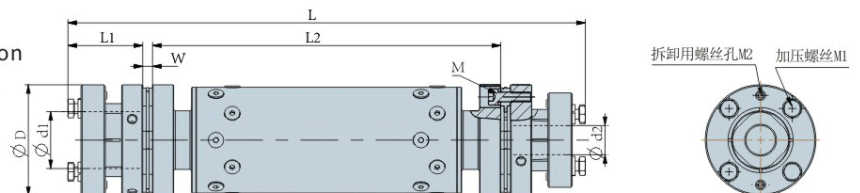
68K: Outside Diam: 68mm, Keyway Type

15: d1 Bore: 15mm, H8

22: d2 Bore: 20mm, H8

L291: Length: 291mm

Please mark the bore diameter in the order of d1 (minor diameter) - d2 (major diameter)





## 外型尺寸 Dimensions

单位 (unit): mm

型号 Model	d1 · d2		ΦD	L	L1	L2	w	M	拧紧力矩 Tightening Torque (N·m)
	最小孔径 Min·Bore	最大孔径 Max·Bore							
LK28-68K-□□□-□□□WP-□□	15	22	68	291 1000 1300	35.5	208 917 1217	6	M6	14-15
LK28-68A-□□□-□□□WP-□□	18	35	68	318 1000 1300	46	214 896 1196	6	M6	14-15
LK28-82K-□□□-□□□WP-□□	15	30	82	305.2 1000 1300	37.5	214 908.8 1208.8	8.1	M8	14-15
LK28-82A-□□□-□□□WP-□□	20	35	82	331 1000 1300	47.4	220 889 1189	8.1	M8	14-15
LK28-94K-□□□-□□□WP-□□	16	38	94	324.2 1000 1300	44.5	218 893.8 1193.8	8.6	M8	14-15
LK28-94A-□□□-□□□WP-□□	28	45	94	345 1000 1300	53.4	220 875 1175	8.6	M8	14-15
LK28-104K-□□□-□□□WP-□□	18	42	104	309.8 1000 1300	51	188 878.2 1178.2	9.9	M8	14-15
LK28-104A-□□□-□□□WP-□□	28	50	104	363 1000 1300	61.6	220 857 1157	9.9	M8	14-15
LK28-126K-□□□-□□□WP-□□	20	48	126	345 1000 1300	64	192 847 1147	12.5	M10	27-30
LK28-126A-□□□-□□□WP-□□	38	65	126	398 1000 1300	76.5	220 822 1122	12.5	M10	27-30
LK28-144K-□□□-□□□WP-□□	28	55	144	462 1000 1300	70	296 834 1134	13	M12	27-30
LK28-144A-□□□-□□□WP-□□	40	75	144	488 1000 1300	83	296 808 1108	13	M12	27-30
LK28-178K-□□□-□□□WP-□□	48	80	178	517 1000 1300	70	341 824 1124	18	M12	27-30
LK28-178A-□□□-□□□WP-□□	55	80	178	547 1000 1300	85	341 794 1094	18	M12	27-30

说明:

- 1.对于上表以外的孔径,如需定货,可另行提供服务,请向本公司洽询。
- 2.对方安装轴公差为h7,h8级,如轴公差为其他公差,给公差要求厂家定做。

Note:

1. For other bore sizes which are not listed above, customized ones are available, please consult us.
2. The tolerance of installation axle is h7 and h8. If the axle tolerance is other tolerance, it should be customized to the manufacturer.

# 标准孔径 Standard Bore Diameter

单位 (unit): mm

型号 Model	标准孔径 Standard Bore Diameter · d1·d2 (mm)																									
	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	76	80	
LK28-68K-□□□-□□□WP-□□	•	•	•	•	•	•																				
LK28-68A-□□□-□□□WP-□□			•	•	•	•	•	•	•	•	•															
LK28-82K-□□□-□□□WP-□□	•	•	•	•	•	•	•	•	•	•																
LK28-82A-□□□-□□□WP-□□					•	•	•	•	•	•	•															
LK28-94K-□□□-□□□WP-□□	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LK28-94A-□□□-□□□WP-□□																										
LK28-104K-□□□-□□□WP-□□			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LK28-104A-□□□-□□□WP-□□										•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LK28-126K-□□□-□□□WP-□□					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LK28-126A-□□□-□□□WP-□□																										
LK28-144K-□□□-□□□WP-□□										•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LK28-144A-□□□-□□□WP-□□																										
LK28-178K-□□□-□□□WP-□□																										
LK28-178A-□□□-□□□WP-□□																										

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## 技术参数 Specifications

单位 (unit): mm

型号 Model	额定扭矩 Rated Torque (N.m)	最高转速 Max. Rotational Frequency (rpm)	惯性力矩 Moment of Inertia (Kg.m <sup>2</sup> )	静态扭矩刚性 Static Torsional Stiffness (N.m/rad)	容许径向偏差 Errors of Eccentricity (mm)	容许角向偏差 Errors of Angularity (°)	重量 N.W. (g)
LK28-68K-□□□-□□□WP-□□	55	9000	$1.5 \times 10^{-3}$	19000	0.25	1.5	640
LK28-68A-□□□-□□□WP-□□	55	9000	$1.9 \times 10^{-3}$	19200	0.25	1.5	980
LK28-82K-□□□-□□□WP-□□	80	8000	$2.6 \times 10^{-3}$	58000	0.3	1.5	1250
LK28-82A-□□□-□□□WP-□□	80	8000	$3.2 \times 10^{-3}$	59000	0.3	1.5	1180
LK28-94K-□□□-□□□WP-□□	170	6500	$4.5 \times 10^{-3}$	117000	0.32	1.5	1520
LK28-94A-□□□-□□□WP-□□	170	6500	$5.6 \times 10^{-3}$	119000	0.32	1.5	1640
LK28-104K-□□□-□□□WP-□□	240	6000	$7.2 \times 10^{-3}$	172000	0.38	1.5	2460
LK28-104A-□□□-□□□WP-□□	240	6000	$8.8 \times 10^{-3}$	174000	0.38	1.5	1930
LK28-126K-□□□-□□□WP-□□	420	5800	$1.8 \times 10^{-2}$	51500	0.38	1.5	3170
LK28-126A-□□□-□□□WP-□□	420	5800	$2.0 \times 10^{-2}$	310000	0.38	1.5	4270
LK28-144K-□□□-□□□WP-□□	700	5100	$3.4 \times 10^{-2}$	525000	0.44	1.5	5960
LK28-144A-□□□-□□□WP-□□	700	5100	$3.6 \times 10^{-2}$	530000	0.44	1.5	6000
LK28-178K-□□□-□□□WP-□□	1300	5000	$9.1 \times 10^{-2}$	1420000	0.6	1.5	8580
LK28-178A-□□□-□□□WP-□□	1300	5000	$9.1 \times 10^{-2}$	1420000	0.6	1.5	8580

※ “额定扭矩、最高转速” 可以按客户要求定制。

※ Rated torque and maximum rotational frequency can be customized according to customer requirements.

说明:

1. 惯性力矩和重量按最大孔径计算。
2. 扭矩刚性为元件部份的测量值
3. 最高转速未考虑动平衡。

Note:

1. Moment of inertia and mass figures based on the maximum shaft bores.
2. Torque rigidity is the measured value of component part.
3. The maximum speed does not consider dynamic balance.