

HL 型弹性柱销联轴器

HL type elastic pin coupling

◇ 结构性能 Design capability

- 弹性元件用尼龙，其强度和耐磨性较高，且适用于有腐蚀的环境。
- 钢制动轮外圆表面经淬火处理。
- 半联轴器轴孔键槽型式及尺寸、标记方法均按 GB / T 3852-1997 《联轴器轴孔和联结型式及尺寸》的规定，两个半联轴器轴孔型式可任意组合。
- 使用温度 -20~+70℃。
- 原型号指国标为 GB5051-85 系列产品。

- The material of elastic components is nylon so it has high hardness and resistance to wear and apply for the circumstance with causticity.
- Circle surface of metal brake ring operated by quenching.
- Mode, size and mark method of coupling hole and keyway accord with prescript of GB/ T 3852-1977 《connecting mode and size of shaft hole》. 2 half-coupling shaft hole can be arbitrary combined.
- Working temperature: From -20 to +70℃.
- Original standard is international standard GB5051-85.

◇ 标记说明 Mark note

对于 Z 型，J 型带沉孔的长度 L 是指轴孔的配合长度（不含沉孔）即下图中 L 尺寸。

For Z and J type with counterbore, it is length of fit not include counterbore, L value as the drawing below.

◇ 标记示例 Marks sample

HL6 弹性柱销联轴器

主动端：Y 型轴孔、A 型键槽。d1=65mm, L=142mm

从动端：Y 型轴孔、A 型键槽。d2=75mm, L=142mm

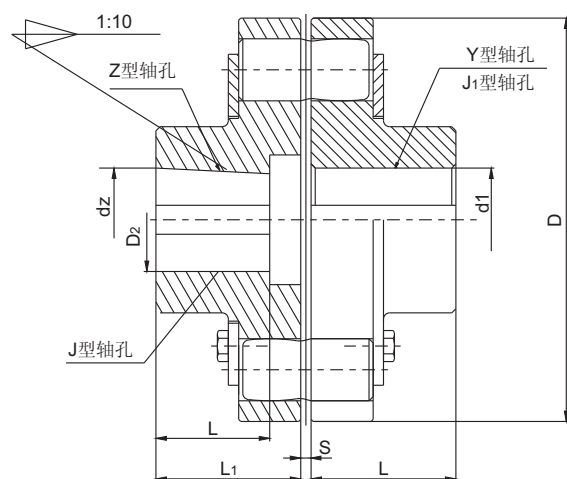
联轴器：HL6 $\frac{YA65 \times 142}{YA75 \times 142}$ GB/T5014-2003

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Drive end: Y type shaft hole, A type keyway, d1 is 65mm, L is 142mm

Driven end: Y type shaft hole, A type keyway, d2 is 75mm, L is 142mm

Coupling: HL6 $\frac{YA65 \times 142}{YA75 \times 142}$ GB/T5014-2003



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- 柱销材料为 MC 尼龙 6
- 为改善柱销与孔的接触条件及补偿性能，柱销的一端制成鼓形。
- Material of pin is MC6 nylon
- In order to improve touch condition and compensate capacity, one end of pin should be made into drum shape.

◇HL型弹性柱销联轴器基本参数和主要尺寸(GB/T5014-2003)

Base figure and main size of HL type elastic pin coupling (GB/T5014-2003)

原型号 Original Type	型号 Type	公称扭矩 Nominal torsion N.m	许用转速 Limited rotational speed rpm	轴孔直径 mm Diameter of the shaft hole d1、d2、dz	轴孔长度 Length of the shaft hole			D	S	许用补偿量 Limited compensation			转动惯量 Rotate inertia Kg.cm ²	重量 Weight Kg
					Y型	J、J1、Z型				轴向 Axial	径向 Radial	角向 Angle		
					L	L	L1			mm				
LX1	HL1	250	8500	12.14	32	27	32	90	2.5	0.15	±0.5	≤0° 30′	0.002	2
				16.18.19	42	30	42							
				20.22.24	52	38	52							
LX2	HL2	560	6300	20.22.24	52	38	52	120	2.5	0.15	±1	≤0° 30′	0.009	5
				25.28	62	44	62							
				30.32.35	82	60	82							
LX3	HL3	1250	4750	30.32.35.38	82	60	82	160	2.5	0.15	±1	≤0° 30′	0.026	8
				40.42.45.48	112	84	112							
LX4	HL4	2500	3870	40.42.45.48.50.55.56	112	84	112	195	3	0.15	±1.5	≤0° 30′	0.109	22
				60.63	142	107	142							
LX5	HL5	3150	3450	50.55.56	142	107	142	220	3	0.15	±1.5	≤0° 30′	0.191	30
				60.63.65.70.71.75	142	107	142							
LX6	HL6	6300	2720	60.63.65.70.71.75.78	142	107	142	280	4	0.20	±2	≤0° 30′	0.543	53
				85	172	132	172							
LX7	HL7	11200	2360	70.71.75	142	107	142	320	4	0.20	±2	≤0° 30′	1.314	98
				80.85.90.95	172	132	172							
				100.110	212	167	212							
LX8	HL8	16000	2120	80.85.90.95	212	167	212	360	5	0.20	±2	≤0° 30′	2.023	119
				100.110.120.125	212	167	212							
LX9	HL9	22400	1850	100.110.120.125	212	167	212	410	5	0.20	±2	≤0° 30′	4.386	197
				130.140	252	202	252							
LX10	HL10	35500	1600	110.120.125	212	167	212	480	6	0.25	±2.5	≤0° 30′	9.760	322
				130.140.150	252	202	252							
				160.170.180	302	242	302							
LX11	HL11	50000	1400	130.140.150	252	202	252	540	6	0.25	±2.5	≤0° 30′	20.05	520
				160.170.180	302	242	302							
				190.200.220	352	282	352							
LX12	HL12	80000	1220	160.170.180	302	242	302	630	7	0.25	±2.5	≤0° 30′	37.71	714
				190.200.220	352	282	352							
				240.250.260	410	330	-							
LX13	HL13	125000	1080	190.200.220	352	282	352	710	8	0.25	±3	≤0° 30′	71.37	1057
				240.250.260	410	330	-							
				280.300	470	380	-							
LX14	HL14	180000	950	240.250.260	410	330	-	800	8	0.25	±3	≤0° 30′	170.6	1956
				280.300.320	470	380	-							
				340	550	450	-							

注：重量、转动惯量是按J/Y轴孔组合型式和最小轴孔直径计算的。

Note: 1. Weight and running inertias calculated as J/Y shaft hole assemble form and min shaft hole diameters.