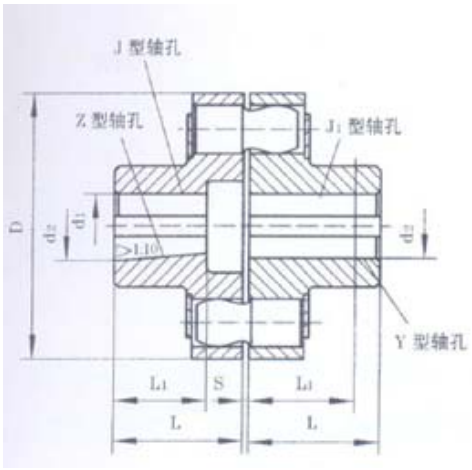
Flexible Pin Coupling (LX Series)



LX Series Flexible Pin Coupling

Description

Elastic component of flexible pin coupling is made of nylon. It has high intensity and abrasion resistance and is suited to corrosive environment. Operating temperature of this machine is -20 to 70℃. Type, dimension and marking method of half-coupling hole and keyway are conformed to regulation of GB/T3852-1997 “Types and Dimension for Coupling Bores and Their Connection”. Axle hole type of two half-coupling can be randomly combined.

Marking Description

Length of Z and J type axle hole with counterbore refers to length of fit of axel hole (excluding the counterbore), that is L1 in the right picture.

Marking illustration

LX6 type pin coupling elastomer

Driving side: Y type axle hole; A type keyway. d1=60 mm, L=142 mm

Driven end: Y type axle hole; A type keyway. d2=75 mm, L=142 mm

Shaft coupling: LX6 $\frac{YA65\times142}{YA75\times142}$ GB/T5014-2003

Parameters

Model	Nominal Toque Tn N.m	Limited Rotational Speed [n] (r/min)		Shaft Hole Diameter d1,d2, d3		Shaft Hole Length Y,J,J1,Z1	D mm	Rotational Inertia ($kg.m^2$)	Weight (kg)
		Steel	Iron	Steel	Iron	L,L1			
LX1	160	7100		12-24	12-22	27-52	90	0.0064	2
LX2	315	5600		20-35	20-32	38-82	120	0.253	5
LX3	630	5000		30-48	30-42	60-112	160	0.6	8
LX4	1250	4000	2800	40-63	40-56	84-142	195	3.4	22
LX5	2000	3550	2500	50-75	50-70	107-142	220	5.4	30
LX6	3150	2800	2100	60-85	60-80	107-172	280	15.6	53
LX7	6300	2240	1700	70-110	70-100	107-212	320	41.1	98
LX8	10000	2120	1600	80-125	80-110	167-212	360	56.5	119
LX9	16000	1800	1250	100-140	100-130	167-252	410	133.3	197
LX10	25000	1560	1120	110-180	110-160	167-302	480	273.2	322
LX11	31500	1320	1000	130-220	130-190	202-352	540	555.7	520
LX12	63000	1250	950	160-260	160-220	242-410	630	902	714
LX13	100000	1120	850	190-300	190-260	282-470	710	1700	1057
LX14	160000	850	630	240-340	240-300	330-550	800	4318	1956

Note

Weight and rotational inertia are calculated according to combination type of J/Y-axis holes and the minimal axle hole.