
IKUSE WZL Drum coupling

Overview

Connects mechanisms such as a gearbox and a drum. Check torque and radial load for the corresponding construction.

Construction and maintenance

Check the drum flange, shaft-end connection, installation space and access for lubrication and maintenance.

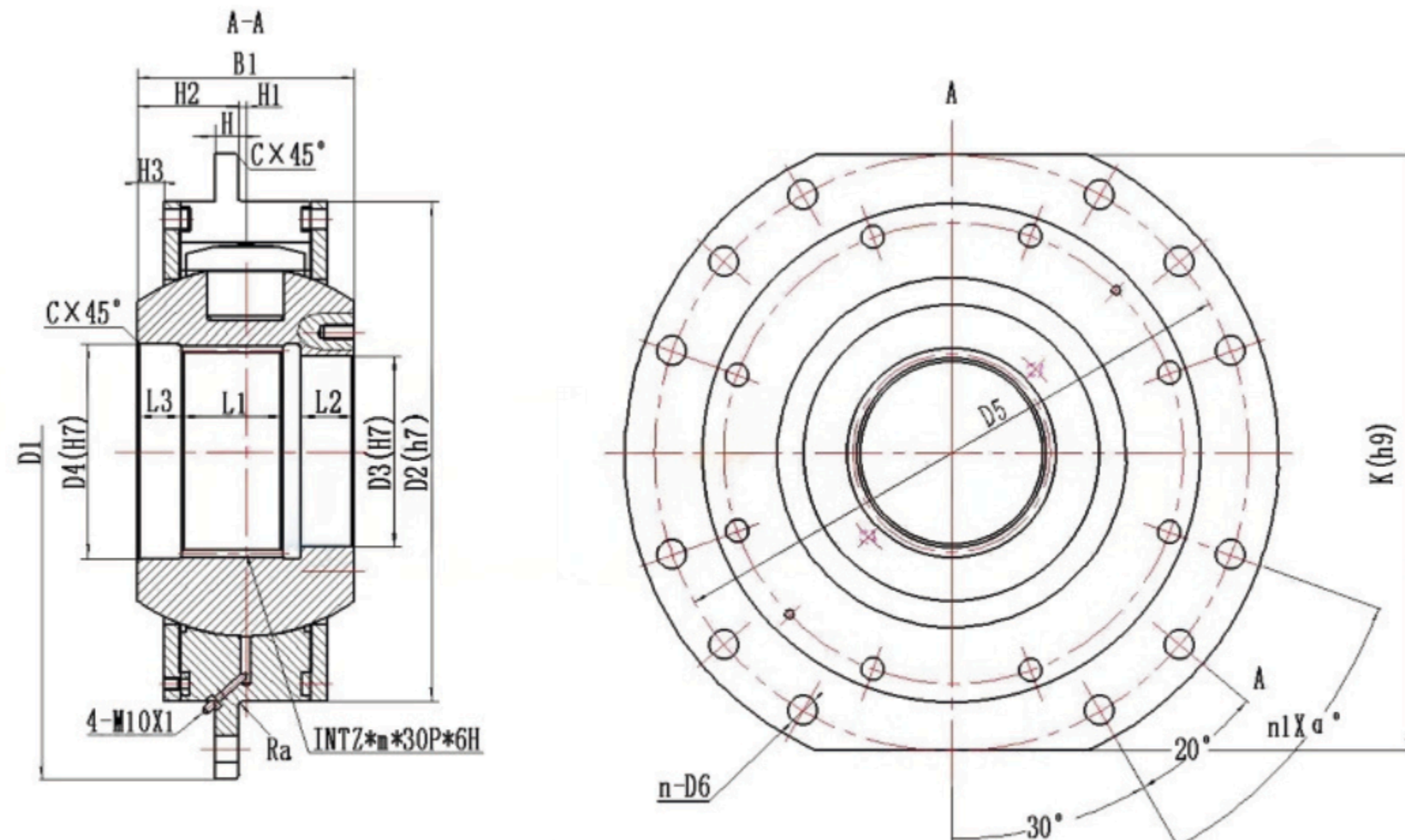
Technical specifications

WZL01–WZL18; nominal torque 6.3–1490 kN·m. Select the transmitted torque for duty class M3–M8 and check the spline, drum flange and installation dimensions.

Ordering information

Specify the selected model, duty class, operating torque, radial load, spline specification, drum connection dimensions and installation conditions.

Structural diagram



Bores, shaft extensions, connection dimensions and installation spacing must correspond to the selected size.

Model	Nominal torque	Transmitted torque						Spline	K	B ₁	D ₁	D ₂	D ₃	D ₄	D ₅	H	H ₁	H ₂	H ₃	L ₁	L ₂	L ₃	n-D ₆	Bolt	n ₁ ×α°	Ra	C	Mass moment of inertia	Mass
		Duty class																										kg·m²	kg
	[T] kN·m	M3	M4	M5	M6	M7	M8																						
WZL01	6.3	6.3	5.6	5	4.5	4	3.55	15Z*3m	250	80	300	190	40	50	260	12	3	37	4	30	18	22	8-14	M12	1*40	1.6	1.6	0.13	18.9
WZL02	9	9	8	7.1	6.3	5.6	5	18Z*3m	280	84	320	200	50	60	280	15	3	39	5	30	22	22	8-18	M16	1*40	1.6	2	0.19	22.6
WZL03	12.5	12.5	11.2	10	9	8	7.1	22Z*3m	300	92	340	220	60	70	300	15	3	43	5	35	25	22	8-18	M16	1*40	2	2	0.27	28
WZL04	16	16	14	12.5	11.2	10	9	27Z*3m	320	97	360	240	70	85	320	15	4	44.5	5.5	40	25	22	8-18	M16	1*40	2	2.5	0.37	32.8
WZL05	20	20	18	16	14	12.5	11.2	18Z*5m	340	127	380	260	80	100	340	15	4	59.5	10.5	50	25	37	8-18	M16	1*40	2	2.5	0.56	47
WZL06	25	25	22.4	20	18	16	14	22Z*5m	360	137	400	280	100	120	360	15	5	63.5	10.5	55	30	37	8-18	M16	1*40	2	2.5	0.76	57
WZL07	40	40	35.5	31.5	28	25	22.4	26Z*5m	400	157	450	340	120	140	400	15	5	73.5	12.5	70	35	37	12-22	M20	2*20	2.5	3	1.65	90
WZL08	63	63	56	50	45	40	35.5	30Z*5m	450	167	500	380	140	160	450	20	6	77.5	13.5	75	40	37	12-22	M20	2*20	2.5	3	2.86	122
WZL09	80	80	71	63	56	50	45	34Z*5m	500	182	550	420	160	180	500	20	6	85	16	85	45	37	12-22	M20	2*20	2.5	3	4.49	157
WZL10	125	125	112	100	90	80	71	38Z*5m	530	192	580	450	180	200	530	20	6	90	14	95	45	37	12-22	M20	2*20	2.5	4	6.18	190
WZL11	200	200	180	160	140	125	112	26Z*8m	580	207	650	530	190	222	600	25	7	96.5	15.5	105	45	37	12-22	M20	2*20	2.5	4	12.5	290
WZL12	315	315	280	250	224	200	180	30Z*8m	600	222	680	560	220	254	630	25	7	104	16	120	45	37	24-22	M20	5*10	2.5	5	16.4	335
WZL13	400	400	355	315	280	250	224	34Z*8m	640	237	710	600	250	286	660	35	8	110.5	17.5	135	45	37	24-26	M24	5*10	3	5	23.13	393
WZL14	500	500	450	400	355	315	280	38Z*8m	700	262	780	670	280	318	730	35	8	123	16	150	55	37	24-26	M24	5*10	3	5	39.18	551
WZL15	630	630	560	500	450	400	355	44Z*8m	760	287	850	730	320	366	800	35	9	134.5	17.5	170	60	37	24-26	M24	5*10	3	6	59.25	693
WZL16	800	800	710	630	560	500	450	50Z*8m	860	352	950	840	360	420	900	45	10	166	37	220	60	52	24-26	M24	5*10	3	6	114.5	1250
WZL17	1120	1120	1000	900	800	710	630	44Z*10m	1020	410	1120	975	400	460	1055	50	15	190	37	260	60	65	24-29	M27	5*10	4	6	260.4	1950
WZL18	1490	1490	1380	1250	1120	1000	900	56Z*10m	1100	430	1200	1055	540	580	1135	60	25	190	37	270	60	70	24-29	M27	5*10	4	6	337.8	2250

Notes

Linear dimensions are in mm; other units are given in the corresponding column headings. Check bores, shaft extensions and installation dimensions for the same size.

IKUSE QL Ball coupling

Overview

Balls located in the grooves of the two coupling halves transmit torque.

Construction and maintenance

Inspect torque-transmitting elements for wear and check fasteners, lubrication and protective arrangements.

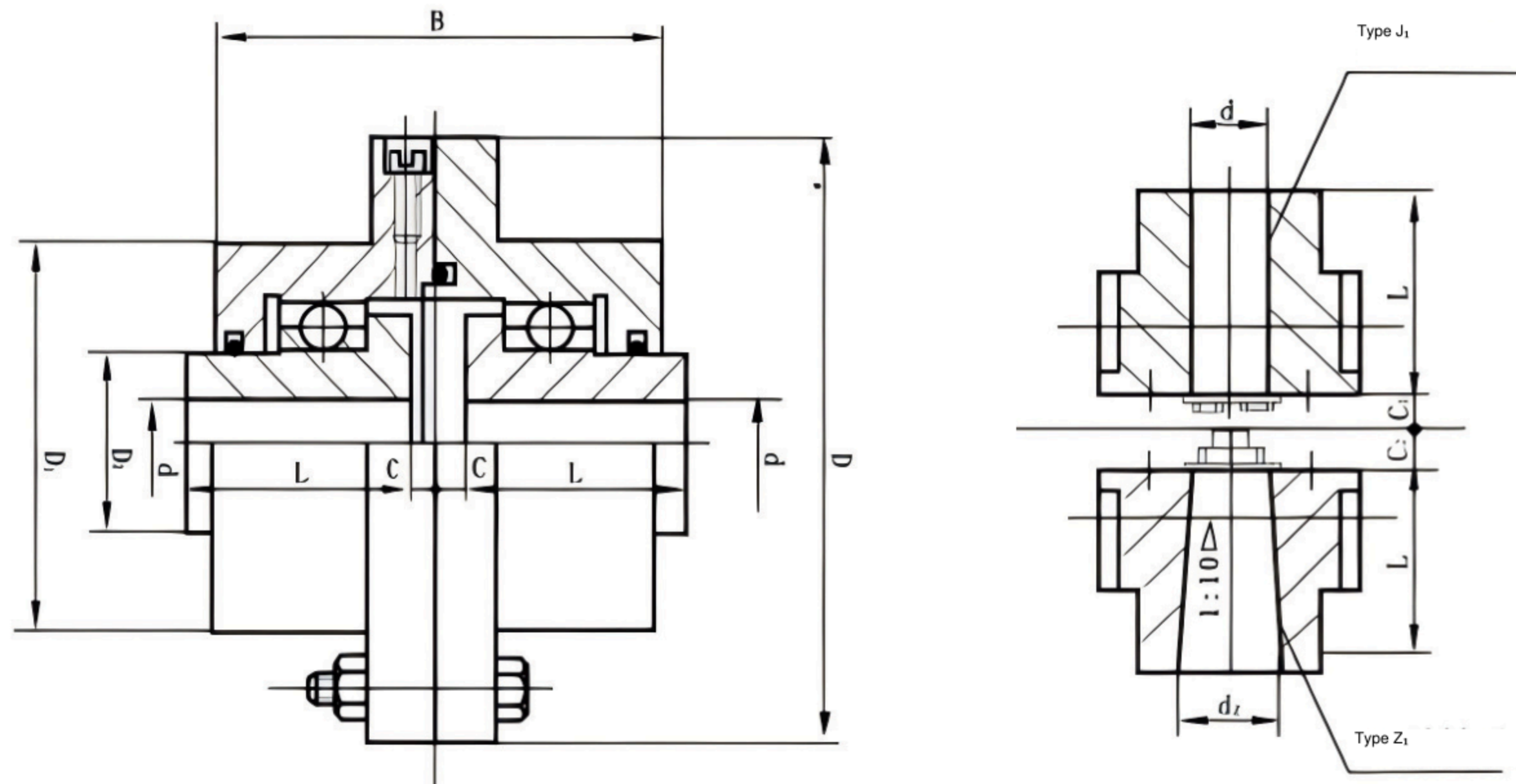
Technical specifications

Torque, speed, bores and installation dimensions must all correspond to the same size.

Ordering information

Specify power, operating speed, load characteristics, both shaft diameters and extension lengths, shaft-end separation and installation conditions. Include brake, dynamic-balancing and elastic-element requirements where applicable.

Structural diagram



Bores, shaft extensions, connection dimensions and installation spacing must correspond to the selected size.

Bore types: Y; J₁; Z₁.

Model	Nominal torque	Allowable speed	Bore diameter	D	D ₁	D ₂	L	B	C	C ₁	C ₂	Mass
	[T] kN·m	[n] r/min										kg
QL1	0.9	4700	18-40	170	110	55	55	96	2.5	11	18	9.8
QL2	1.8	3900	30-50	185	125	70	70	108	2.5	13	22	13.8
QL3	3.6	3400	40-60	220	150	90	85	128	2.5	15	25	23
QL4	6.4	2800	45-75	250	178	110	105	138	2.5	17	28	33
QL5	9	2500	50-90	290	200	130	115	160	5	22	35	52
QL6	13.5	2000	60-105	320	230	140	125	180	5	25	35	73
QL7	21.8	1900	65-120	350	255	170	140	192	5	25	40	100
QL8	27	1600	80-140	380	285	190	160	200	5	30	45	132
QL9	35	1400	90-160	430	320	210	165	220	5	30	—	165
QL10	60	1200	110-180	490	375	260	180	232	5	30	—	250
QL11	80	1100	120-220	545	410	300	200	248	5	35	—	340
QL12	115	1000	140-250	590	455	340	240	292	5	38	—	470
QL13	168	900	160-280	680	505	380	260	328	7.5	45	—	650
QL14	229	800	180-320	730	580	420	280	342	7.5	50	—	857
QL15	280	750	200-360	780	660	480	320	362	7.5	50	—	1090
QL16	430	650	230-400	900	740	530	350	386	10	—	—	1627
QL17	615	600	260-450	1000	850	630	400	420	10	—	—	2120
QL18	860	550	300-500	1100	960	710	450	460	10	—	—	3228
QL19	1160	500	350-560	1250	1030	800	485	540	15	—	—	4370

Notes

Linear dimensions are in mm; other units are given in the corresponding column headings. Check bores, shaft extensions and installation dimensions for the same size.

IKUSE KC Roller-chain coupling

Overview

A roller chain engages the sprockets on both coupling halves to transmit torque. A protective cover can be fitted.

Construction and maintenance

Inspect torque-transmitting elements for wear and check fasteners, lubrication and protective arrangements.

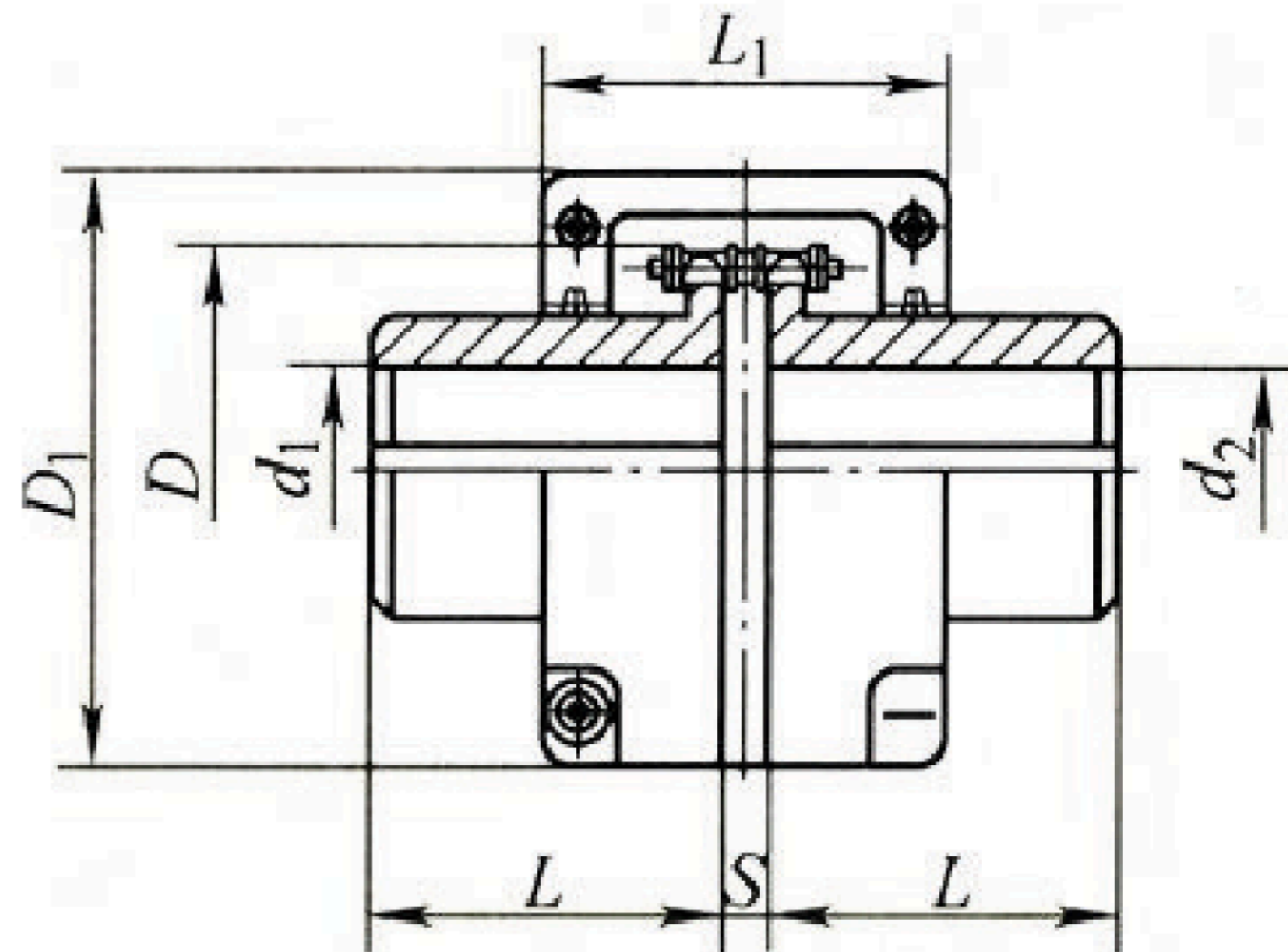
Technical specifications

Torque, speed, bores and installation dimensions must all correspond to the same size.

Ordering information

Specify power, operating speed, load characteristics, both shaft diameters and extension lengths, shaft-end separation and installation conditions. Include brake, dynamic-balancing and elastic-element requirements where applicable.

Structural diagram



Bores, shaft extensions, connection dimensions and installation spacing must correspond to the selected size.

Model	Nominal torque	Allowable speed	d ₁ max	D	d ₂	S	L	D ₁	L ₁	Mass moment of inertia	Mass
	[T] N·m	[n] r/min								kg·m²	kg
KC3012	190	5000	16	45	25	4.9	30	59	61	0.000056	0.6
KC4012	249	4800	22	62	35	7.4	36	75	75	0.000247	1
KC4014	329	4800	28	69	43	7.4	36	84	75	0.000453	1.32
KC4016	419	4800	32	77	50	7.4	40	92	75	0.00079	1.9
KC5014	620	3600	35	86	53	9.7	45	101	85	0.00137	2.7
KC5016	791	3600	40	96	60	9.7	45	110	85	0.00218	3.4
KC5018	979	3000	45	106	70	9.7	45	122	85	0.00353	4.4
KC6018	1810	2500	56	127	85	11.5	56	142	105	0.00933	7.8
KC6020	2210	2500	60	139	100	11.5	56	158	105	0.021	10.4
KC6022	2610	2500	71	152	110	11.5	56	168	105	0.0216	12.4
KC8018	3920	2000	80	170	115	15.2	63	186	130	0.0363	15.2
KC8020	4800	2000	90	185	121	15.2	65	210	130	0.072	20.2
KC8022	5640	1800	100	203	140	15.2	71	220	130	0.08	26.1
KC10020	8400	1800	110	233	160	18.8	80	250	148	0.161	39.1
KC12018	12700	1500	125	256	170	22.7	90	307	181	0.268	52.6
KC12022	18300	1250	140	304	210	22.7	100	357	181	0.539	79.4
KC16018	26400	1100	160	341	224	30.1	112	425	250	1.05	110.7
KC16022	38100	1000	200	405	280	30.1	140	475	250	2.5	191.8
KC20018	54100	800	205	426	294	37.5	241	496	300	4.6	323.4
KC20022	77800	600	260	507	374	37.5	241	578	300	10.7	507.8
KC24022	137000	600	310	608	420	45.1	353	650	350	27	958.5
KC24026	186000	500	380	705	520	45.1	353	745	350	57	1403.6
KC32022	261000	50	430	806	570	60.1	400	—	—	108	1970
KC40020	494000	50	470	932	640	75.6	512	—	—	292	3149
KC40024	602000	50	590	1093	800	75.6	512	—	—	495	4724
KC40028	717000	50	700	1255	960	75.6	512	—	—	947	6620

Notes

Linear dimensions are in mm; other units are given in the corresponding column headings. Check bores, shaft extensions and installation dimensions for the same size.

IKUSE GL Roller-chain coupling

Overview

A duplex roller chain engages the sprockets on both coupling halves to transmit torque. Confirm the lubrication and guarding arrangement for the selected construction.

Construction and maintenance

Inspect torque-transmitting elements for wear and check fasteners, lubrication and protective arrangements.

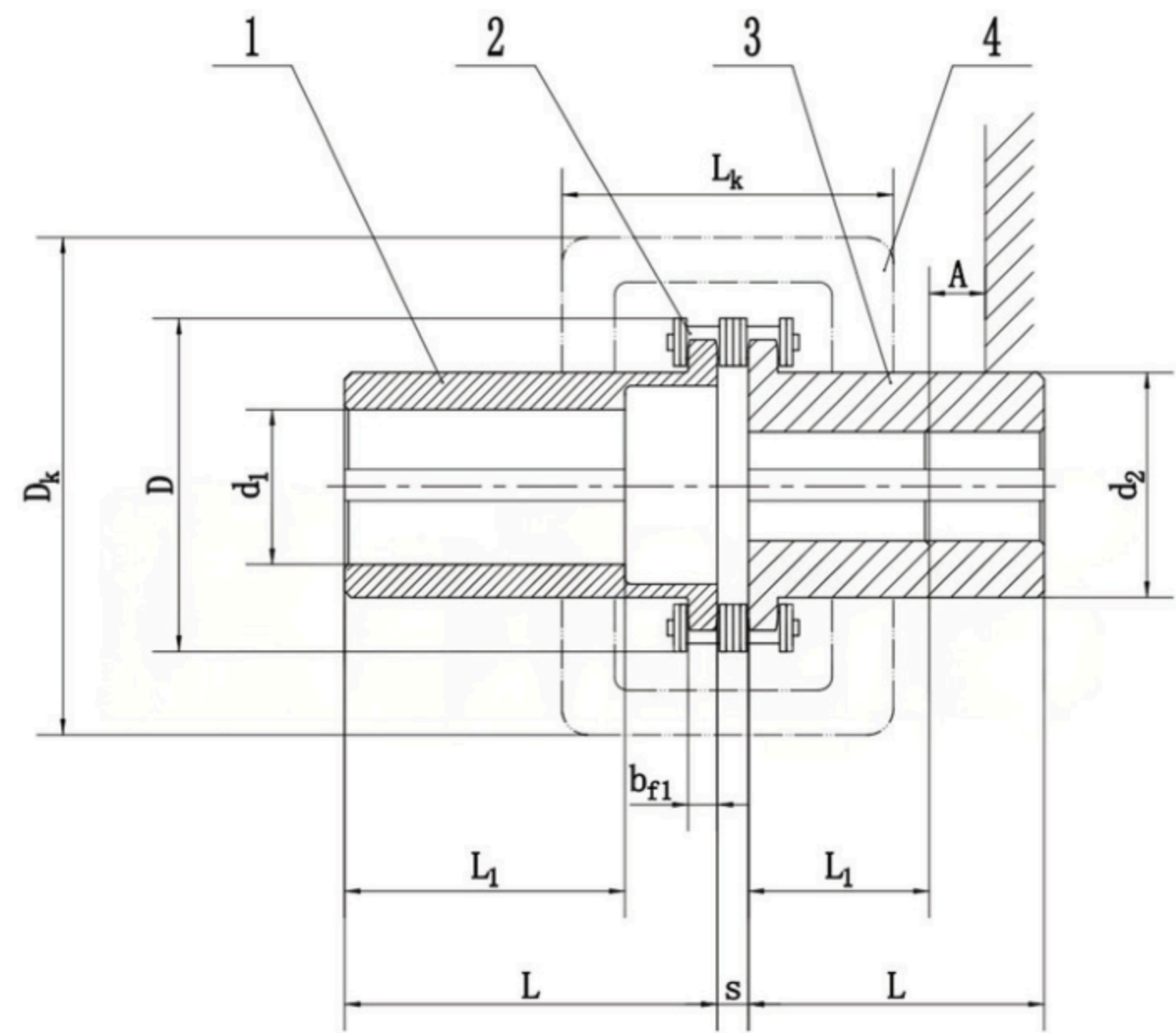
Technical specifications

Torque, speed, bores and installation dimensions must all correspond to the same size.

Ordering information

Specify power, operating speed, load characteristics, both shaft diameters and extension lengths, shaft-end separation and installation conditions. Include brake, dynamic-balancing and elastic-element requirements where applicable.

Structural diagram



Bores, shaft extensions, connection dimensions and installation spacing must correspond to the selected size.

Technical specifications and main dimensions

Model	Nominal torque	Allowable speed		Bore diameter	Bore length		Chain number	D	bn	S	D ₁	Cover Dk*Lk	Mass
	[T] N·m	Without cover	With cover	d	Y	J ₁							kg
GL1	40	1400	4500	16-20	42-52	38	TG95*2	51.06	5.3	4.9	35	70*70	0.5
GL2	63	1250	4500	19-24	42-52	38	TG95*2	57.08	5.3	4.9	38	75*75	0.8
GL3	100	1000	4000	20-25	52-62	38-44	TG127*2	68.88	7.2	6.7	40	85*80	1.2
GL4	160	1000	4000	24-32	52-82	44-60	TG127*2	79.61	7.2	6.7	50	95*88	2
GL5	250	800	3150	28-40	62-112	60-84	TG158*2	94.46	8.9	9.2	60	120*100	3.5
GL6	400	630	2500	32-50	82-112	60-84	TG158*2	116.57	11.9	10.9	85	140*105	5
GL7	630	630	2500	40-60	112-142	84-107	TG190*2	127.78	15	14.3	110	150*122	8
GL8	1000	500	2240	45-70	112-142	84-107	TG254*2	154.33	15	14.3	120	180*135	12
GL9	1600	400	2000	50-80	112-172	84-132	TG254*2	186.5	18	17.8	140	215*145	20
GL10	2500	315	1600	65-90	142-172	107-132	TG317*2	213.02	24	21.5	160	245*165	27
GL11	4000	250	1500	75-100	142-212	107-167	TG381*2	231.49	24	24.9	170	270*195	40
GL12	6300	250	1250	85-120	172-212	132-167	TG444*2	270.08	24	28.6	200	310*205	60
GL13	10000	200	1120	100-140	212-252	167-202	TG508*2	340.8	30	28.6	200	380*230	88
GL14	16000	200	1000	120-160	212-302	167-242	TG508*2	405.22	30	28.6	220	450*250	152
GL15	25000	200	900	140-190	282-352	202-282	TG635*2	466.25	36	35.6	280	510*285	235

Notes

Linear dimensions are in mm; other units are given in the corresponding column headings. Check bores, shaft extensions and installation dimensions for the same size.

IKUSE LB Tyre coupling

Overview

A rubber tyre connects the two coupling halves. Its elastic deformation transmits torque and cushions shocks in the shaft system.

Construction and maintenance

Check the tyre, clamping arrangement and both bores. Inspect fasteners and elastic elements after installation.

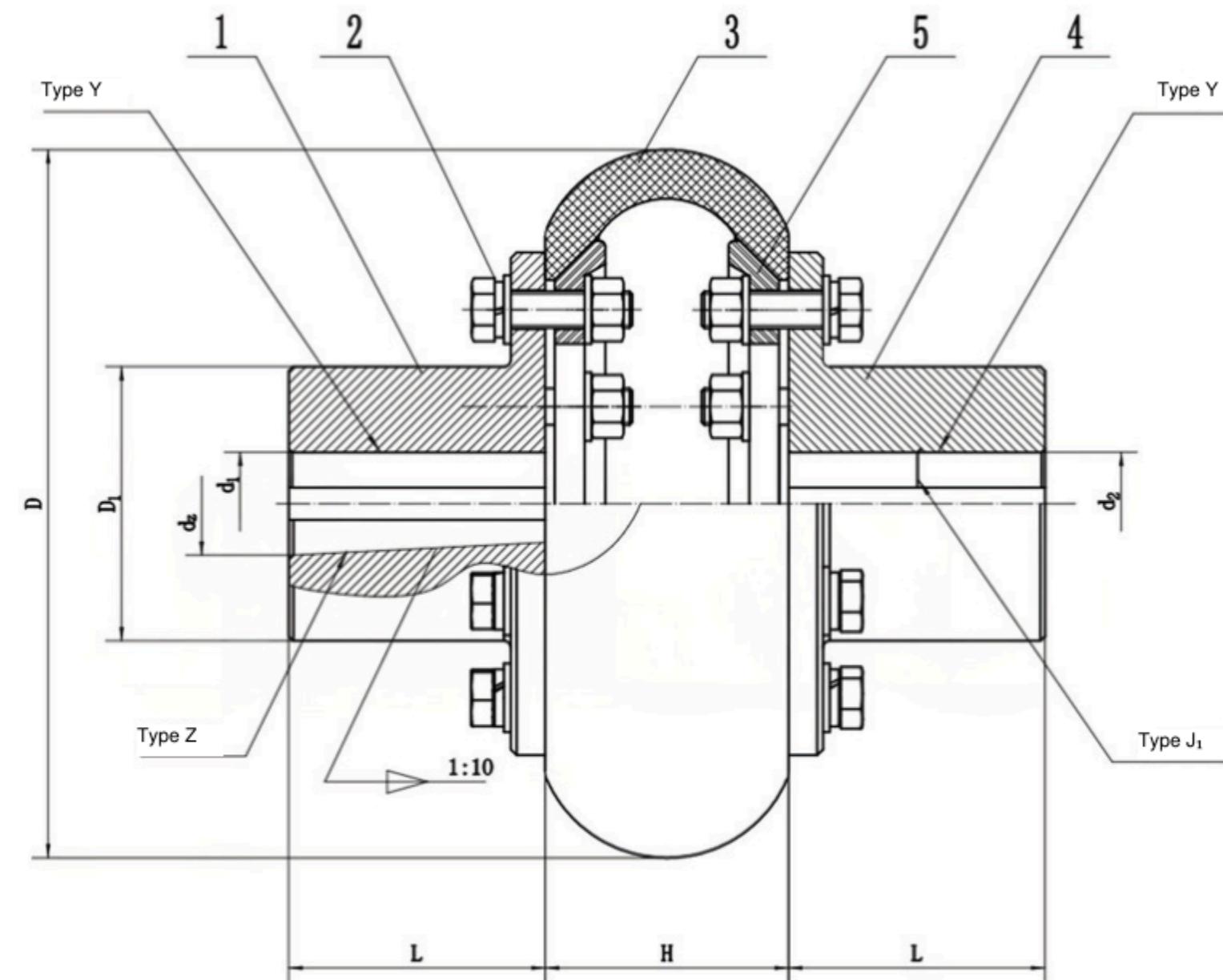
Technical specifications

Torque, speed, bores and installation dimensions must all correspond to the same size.

Ordering information

Specify power, operating speed, load characteristics, both shaft diameters and extension lengths, shaft-end separation and installation conditions. Include brake, dynamic-balancing and elastic-element requirements where applicable.

Structural diagram



Bores, shaft extensions, connection dimensions and installation spacing must correspond to the selected size.

Bore types: Y; J₁; Z₁.

Model	Main dimensions			Screws — quantity, Md*L	Bore diameter	Bore length	Nominal torque	Allowable speed	Mass moment of inertia	Mass
	D	H	D ₁							
	d ₁ ,d ₂ ,dz	Y,J ₁ ,Z ₁	[T] N·m		[n] r/min	kg·m²	kg			
LB1	60	20	26	12-M4*12	6-11	16-25	10	5000	0.0003	0.4
LB2	100	36	32/37	12-M6*18	10-19	25-42	50	5000	0.0035	1.5
LB3	120	44	39	12-M8*20	16-24	30-52	100	4500	0.01	2.2
LB4	140	50	45	12-M10*20	22-35	38-82	160	4200	0.021	3.1
LB5	160	60	51	12-M10*22	25-38	44-82	224	4000	0.031	5
LB6	185	70	58	12-M12*25	30-45	60-112	315	3600	0.07	8.1
LB7	220	85	68	12-M12*28	35-50	60-112	500	3200	0.15	13
LB8	265	110	82	12-M12*32	40-56	84-142	800	2600	0.3	22
LB9	310	120	106	12-M16*40	45-71	84-142	1250	2200	0.75	35
//	340	135	106	12-M16*45	55-75	84-142	1600	2000	1.1	51
LB10	400	150	124	12-M20*50	60-85	107-172	2250	1800	2.2	69
LB11	445	190	140	12-M20*56	80-120	132-212	5000	1600	4.4	110
LB12	550	238	172	16-M24*71	100-150	167-252	10000	1200	14	190
LB13	700	318	220	24-M24*71	130-200	202-352	20000	1000	38	340

Notes

Linear dimensions are in mm; other units are given in the corresponding column headings. Check bores, shaft extensions and installation dimensions for the same size.

IKUSE LA Tyre coupling

Overview

A rubber tyre connects the two coupling halves. Its elastic deformation transmits torque and cushions shocks in the shaft system.

Construction and maintenance

Check the tyre, clamping arrangement and both bores. Inspect fasteners and elastic elements after installation.

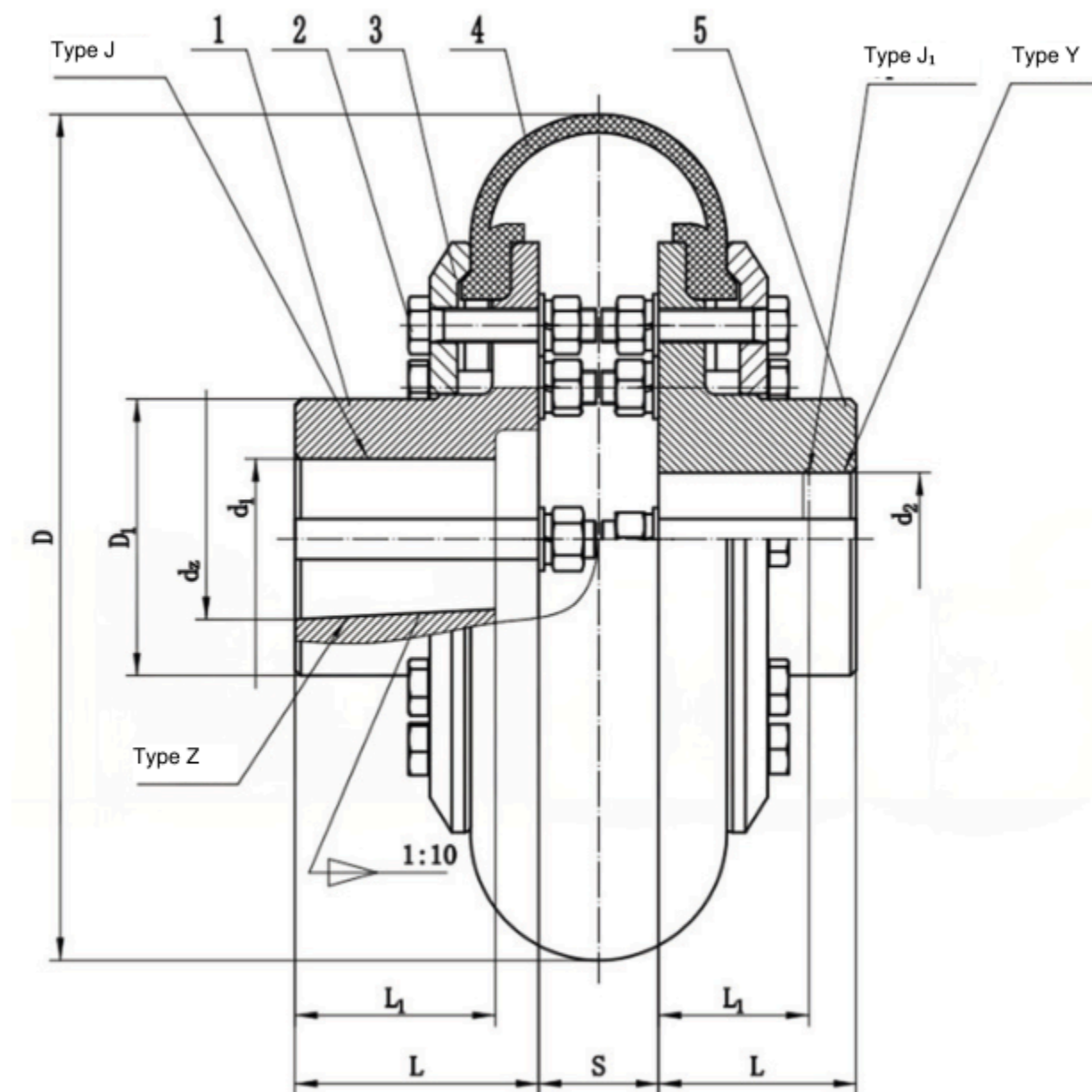
Technical specifications

Torque, speed, bores and installation dimensions must all correspond to the same size.

Ordering information

Specify power, operating speed, load characteristics, both shaft diameters and extension lengths, shaft-end separation and installation conditions. Include brake, dynamic-balancing and elastic-element requirements where applicable.

Structural diagram



Bores, shaft extensions, connection dimensions and installation spacing must correspond to the selected size.

Bore types: Y; J₁; Z₁.

Model	Nominal torque	Allowable speed	Bore diameter		Bore length	D	D ₁	L ₀	S	Mass
	[T] N·m	[n] r/min	min	max						kg
LA1	63	5000	12	40	27	138	86	80	26	4.08
LA2	80	5000	12	42	31	150	94	88	27	4.99
LA3	125	5000	12	50	33	172	113	95	28	6.8
LA4	200	4500	16	65	46	192	125	127	35	10.9
LA5	315	4000	16	70	48	219	144	137	38	15.9
LA6	450	3600	24	80	54	242	152	149	41	20.9
LA7	630	2800	24	85	62	276	178	168	44	28.1
LA8	1000	2400	24	95	66	310	210	187	54	44.5
LA9	1600	2200	28	130	90	357	251	245	64	76.2
LA10	2500	2000	38	150	104	393	251	285	76	89.8
LA11	3550	1850	38	160	116	430	254	322	90	102
LA12	5600	1600	38	170	116	471	267	337	102	120
LA13	8000	1500	45	190	142	510	272	401	117	151
LA14	12500	1500	48	200	152	576	284	432	127	211
LA15	16000	1400	50	200	162	617	300	471	146	255

Notes

Linear dimensions are in mm; other units are given in the corresponding column headings. Check bores, shaft extensions and installation dimensions for the same size.

IKUSE UL Tyre coupling

Overview

A rubber tyre connects the two coupling halves. Its elastic deformation transmits torque and cushions shocks in the shaft system.

Construction and maintenance

Check the tyre, clamping arrangement and both bores. Inspect fasteners and elastic elements after installation.

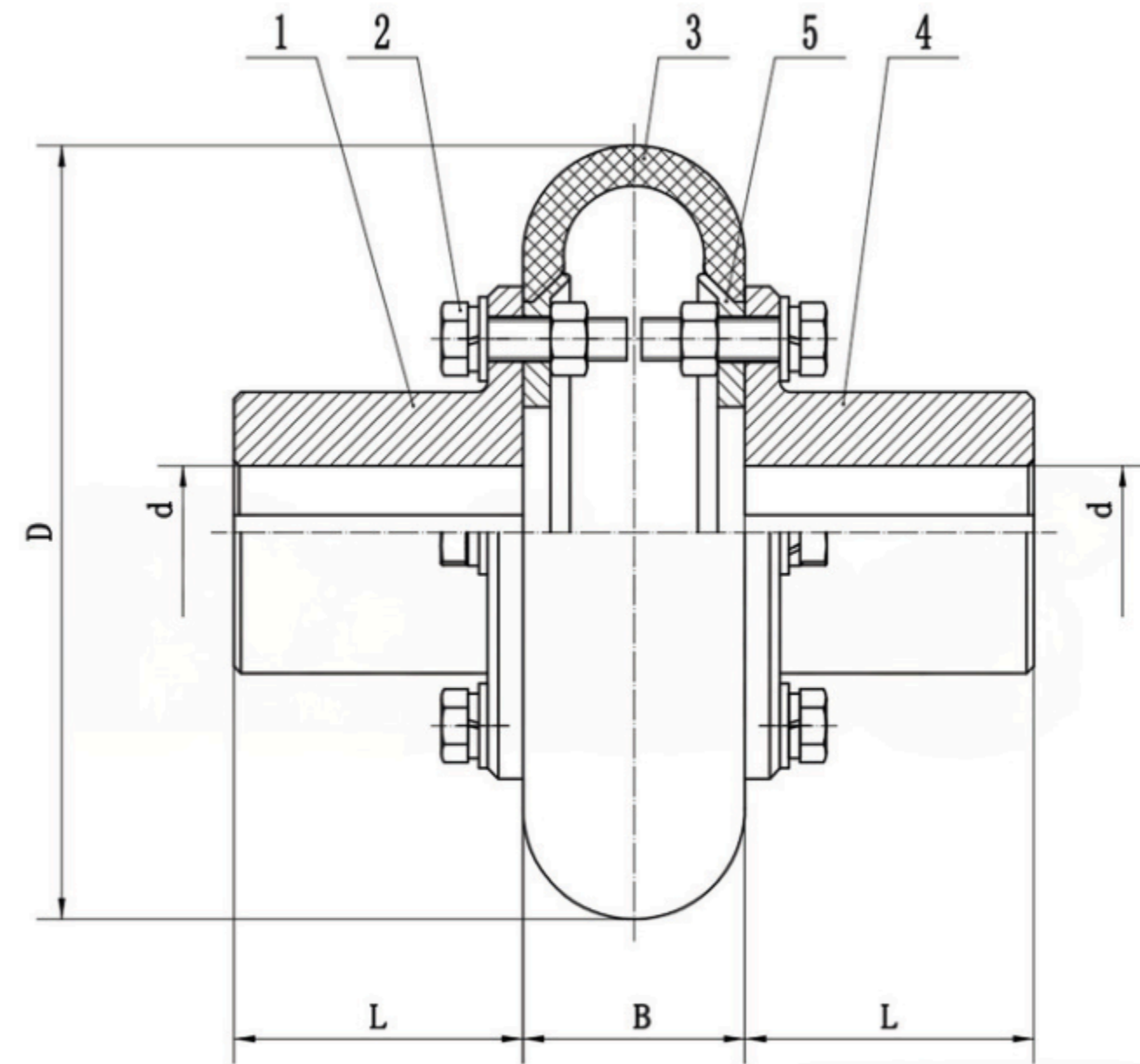
Technical specifications

Torque, speed, bores and installation dimensions must all correspond to the same size.

Ordering information

Specify power, operating speed, load characteristics, both shaft diameters and extension lengths, shaft-end separation and installation conditions. Include brake, dynamic-balancing and elastic-element requirements where applicable.

Structural diagram



Bores, shaft extensions, connection dimensions and installation spacing must correspond to the selected size.

Model	Main dimensions			Screws — quantity, Md*L	Bore diameter	Bore length	Nominal torque	Allowable speed	Mass moment of inertia	Mass
	D	B	D ₁							
	d ₁ ,d ₂ ,dz	Y,J ₁ ,Z ₁	[T] N·m		[n] r/min	kg·m²	kg			
UL1	80	20	29	12-M5*12	10-18	22-42	10	5000	0.0003	0.7
UL2	100	26	36	12-M6*14	12-22	27-52	25	5000	0.0008	1.2
UL3	120	32	40	12-M8*15	18-25	30-62	63	4800	0.0022	1.8
UL4	140	38	48	12-M8*18	20-30	38-82	100	4500	0.0044	3
UL5	160	45	56	12-M10*20	24-35	38-82	160	4000	0.0084	4.6
UL6	180	50	65	12-M10*22	25-40	44-112	250	3600	0.0164	7.1
UL7	200	56	78	12-M10*25	32-48	60-112	315	3200	0.029	10.9
UL8	220	63	80	12-M12*28	38-50	60-112	400	3000	0.045	13
UL9	250	71	100	16-M12*30	42-60	84-142	630	2800	0.089	20
UL10	280	80	120	16-M12*35	45-70	84-142	800	2400	0.159	30.6
UL11	320	90	125	16-M16*40	50-75	84-172	1000	2100	0.279	39
UL12	360	100	150	16-M16*45	55-85	84-172	1600	2000	0.535	59
UL13	400	110	170	16-M16*50	63-95	107-172	2500	1800	0.896	81
UL14	480	130	210	16-M20*56	75-110	107-212	4000	1600	2.261	145
UL15	560	150	255	24-M20*60	85-125	132-212	6300	1200	4.645	222
UL16	630	180	280	16-M24*68	100-140	167-252	10000	1000	8.092	302
UL17	750	210	350	24-M24*76	120-160	167-302	16000	900	20.017	561
UL18	900	250	420	24-M30*86	140-180	202-302	25000	800	43.053	818

Notes

Linear dimensions are in mm; other units are given in the corresponding column headings. Check bores, shaft extensions and installation dimensions for the same size.