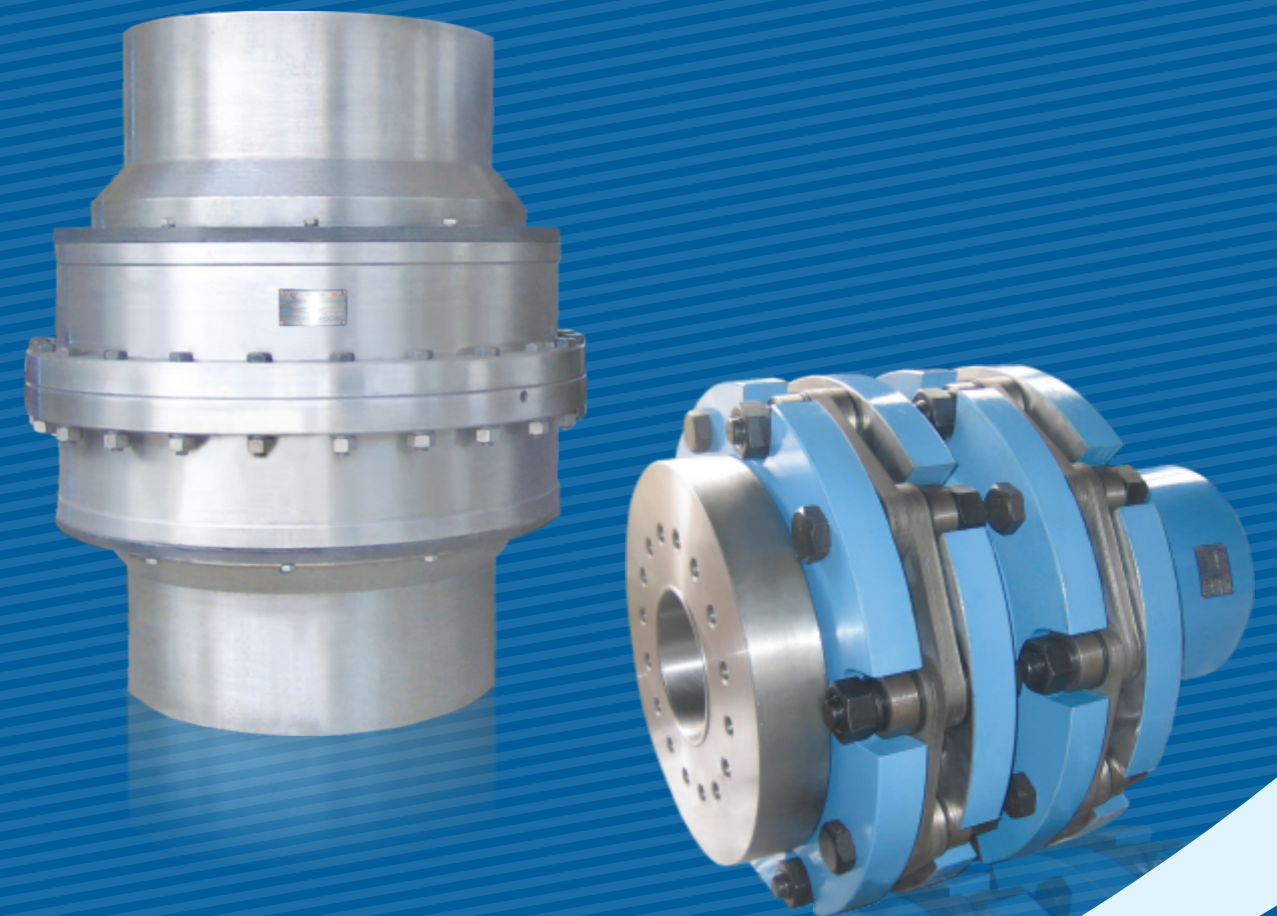




COUPLING

LONGXUAN MACHINERY



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Longxuan Machinery



Longxuan Couplings



Longxuan
Universal Couplings



Microsite of Longxuan

VERSION

NBLX2015L-B

NINGBO LONGXUAN MACHINERY MANUFACTURING CO.,LTD.

LONGXUAN MACHINERY



Background Information of Us:

Ningbo Longxuan Machinery Manufacturing Co. is located in Tsidong Industrial District in North Ningbo where the Hangzhou Bay Bridge is adjacent. Tsidong Industrial District is in Yangzi Delta Area, the fastest developing area in China, with the convenient traffic, beautiful natural landscape, developed economy and rich humanistic resources.

Founded in 2002, Ningbo Longxuan is a technology joint - stock company professional in researching and developing, transforming, designing, producing and selling transmission equipment and their basic components, such as couplings, universal couplings, expansion sleeves, roll-gap adjusting devices, gear reducers, elevators, and so on.

Our manufacturing base is more than 20,000 m² with a floorage of over 13,000 m². The annual output value is over 100,000,000 yuan. We have more than 160 pieces of machining equipment of different kinds. We also have the fine traditional and CNC equipment in small, medium and large, such as hobbing, gear shaping, boring, milling, lathe, grinder, planer, driller, wire cutter, and so on. For example, lathe-φ 2 m*6 m. cylindrical grinder- φ 1 m*4 m. CNC vertical dragon machining center-1.6 m*3.2 m. CNC hobbing machine-1.6 m*16 modules. Special gear shaping machine-with the swing diameter of 2 m, the inner diameter of effective slotting of 1.3 m, shut height of 0.75 m. Spline roller machine-with the length of effective hobbing of 2.5 m, component length of 3.5 m. CNC linear cutting-diameter of effective cutting of 1.2 m, height of 0.8 m. To improve the measuring and testing quality, we have more than 200 sets of length-measuring appliances, instruments and meters of different kinds. This ensures us self-detect and control the whole of each working procedure, such as the metallographic examination of raw materials, physical tests, digital ultrasonic flaw-detection, dynamic balance test for end-product, hardness test for heat treatment, and so on. We research, develop, design and produce the large universal couplings, drum gear couplings and other kinds of couplings, and basic transmission device like heavy expansion sleeve as well. According to the rules of ISO9001-2000, we keep producing fine products for metallurgy, wind power, mining, derricks, logistics, stage, shipbuilding, wood-working, and so on. We gain great reputation in slab casting in metallurgy, steel rolling of heavy plate, hot rolling, cold rolling of thin plate, hot rolling of seamless steel tube, bar and coil, device of wind power of 1.5 megawatt and 3 megawatt, large woodworking machinery, and so on.

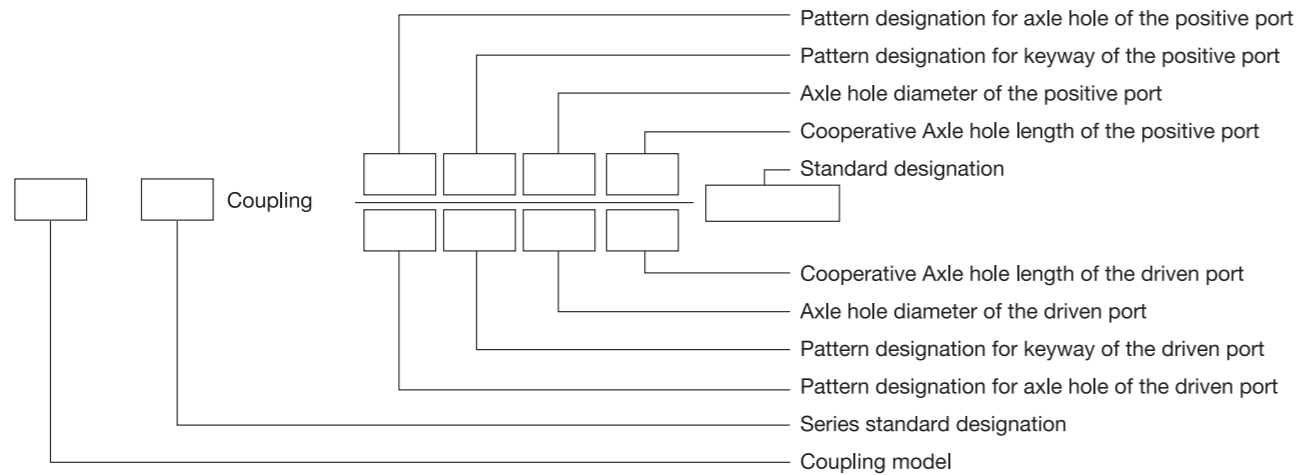
With the brand of Longxuan, our products are complete in specifications and varieties and with novel structures, perfective performance and wide adaptability. We have Longxuan universal couplings, drum type toothed couplings, snake-shaped couplings, hydraulic couplings, sleeve couplings, heavy expansion sleeves and so on. Meanwhile, we also design and produce various nonstandard couplings to meet special requirements. Universal coupling: swing diameter is φ50mm-φ1320mm, nominal torsion is 0.5KN-m-16000 KN-m, axis bevel includes 5°, 10°, 15°, 25°, and 30°, max. weight reaches 55tons. Drum tooth-type coupling: swing diameter is φ100mm-2000mm, nominal torsion 0.3N-m-8000 KN-m, max. weight reaches 35 tons. Member coupling: swing diameter is φ90mm-φ1000mm, nominal torsion is 0.025 KN-m-2000KN-m. Sleeve coupling: swing diameter is φ112mm-φ320mm, nominal torsion is 25 KN-m-64 KN-m. Hydraulic pressure safety coupling: swing diameter is φ100mm-φ1200mm, sliding torsion is 315 KN-m-8000 KN-m. Heavy expansion bush: φ12*φ9, φ125*φ750mm, and torsion is 0.012 KN-m-5000 KN-m.

In order to create a famous brand and serve more people, we make the spirit of our company as human-oriented, management-scientific, service-devoting and credible. Our quality policy is to aim at high quality and efficiency, and constantly strive for excellence. We keep exploring more plausible management pattern adapted to our own, absorbing and introducing advanced technology from the West, using technological software, and developing the products with independent intellectual property right. Moreover, we focus on the needs of customers, provide more products and services with higher quality. We are on the way of searching and creating the bright future of our national industry together.

Confucius said: " do not impose on others what you yourself do not desire. " We Longxuan are keeping to his rules to serve the society in our own way.



Annotations of Couplig Models



Instruction

- 1.Designation for Y-type hole and A-type keyway can be omitted while marking.
- 2.If the model and the size of the axle holes and keyways on both side of the coupling are the same , just one side needs to be marked.
- 3.If the the axle hole, keyway and the cooperative Axle hole length are non-standard, we can also design and make as long as you make a mark.

The Selection of Coupling

The coupling is selected according to the load condition, torque calculation, diameter of axle hole and working speed, and so on. (After the model is chosen, the strength of the axle and the key should be checked and calculated).

Torque calculation can be calculated by the following equation

$$T_c = K_1 K_2 T = K_1 K_2 9550 \frac{P_w}{n} = K_1 K_2 7020 \frac{P_H}{n} \leq T_n \quad (N \cdot m)$$

In this equation,

- T — theoretical calculation P_w — driving power (KW)
- T_n — nominal calculation P_H — driving power (HP)
- T_c — torque calculation K_1 — working friction
- n — working speed K_2 — initiating friction

- When the axle hole size of the coupling, which has the maximal torque calculation T_c , can not meet the requirement of the axial dimension, it should be changed into the standard that can meet both the calculation and the axial dimension simultaneously.

Working friction, K_1

Prime mover	Working machines			
	Type I	Type II	Type III	Type IV
Electric motor and Steam turbine	1.3	1.5	2	3
Internal combustion with more than four cylinders	1.5	2	2.5	3.5
Internal combustion with one to three cylinders	3	3.5	4.5	5

Initiating, includes steering and braking, friction, K_2

Initiating times per hour	<120	120~240	>240
K_2	1.0	1.3	1.6

Types of working machines

- Type I are the machines with small torque changes, such as submersible pump, mini generator, belt conveyor, ventilator, liquid blender, and so on.
- Type II are the machines with medium torque changes, such as lathe, axial fan, chain conveyor, boiler feed pump, rotating compressor, and so on.
- Type III are the machines with large torque changes and impact load, such as reciprocating pump, winch, piston compressor that has more than four cylinders, crane, excavator, cement mixer, and so on.
- Type IV are the machines with large torque changes and forceful impact load, such as actuator of the rolling machine, cutting machine, punch, marine propeller, crusher, and so on.

Type of Coupling Axle Hole

According to GB/T3852-1997

Name	Type and Designation	Illustration	Remark	Name	Type and Designation	Illustration	Remark
Long cylindrical axle hole	Type Y		Used limitedly in the motor of long cylindrical axle	Short cylindrical axle hole with counter bore	Type J		Recommend using
Short cylindrical axle hole with no counter bore	Type J1		Recommend using	Short conical axle hole with counter bore	Type Z2		
Long conical axle hole with counter bore	Type Z			Short conical axle hole with no counter bore	Type Z3		
Long conical axle hole with no counter bore	Type Z1						

Match of cylindrical axle hole and axle extension

Diameter of cylindrical axle hole d,(mm)	Matching Designation
6~30	H7/j6
> 30~50	H7/k6
> 50	H7/m6

H7/n6, H7/p6, H7/r6 can also be adopted if needed.

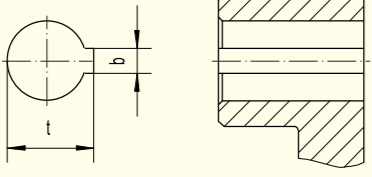
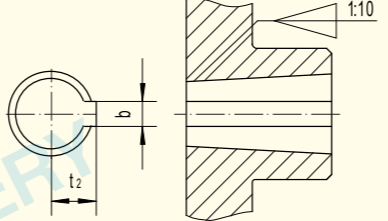
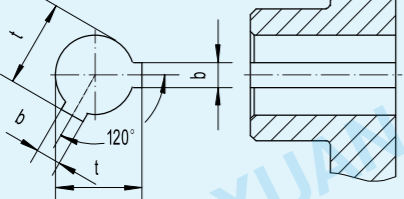
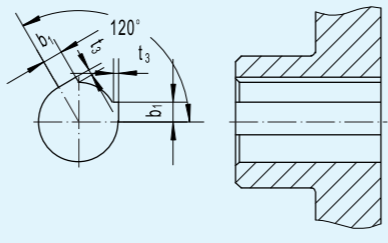
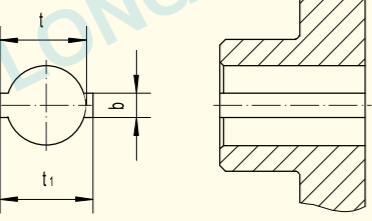
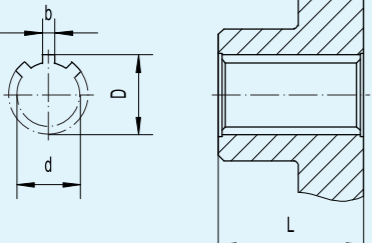
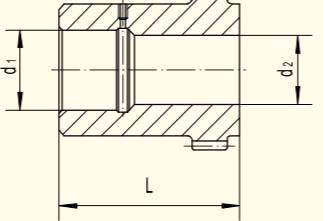
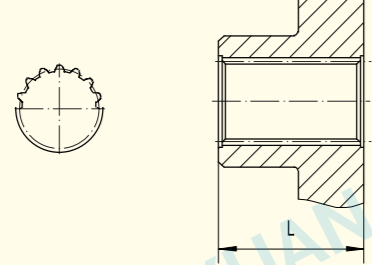
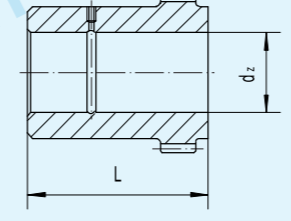
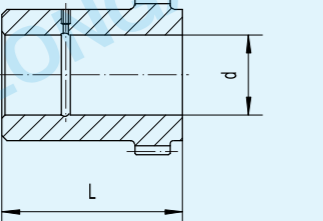
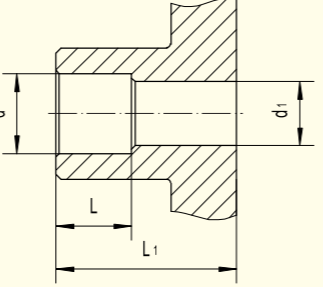
Match of conical axle hole and axle extension

Diameter of conical axle hole d_z ,(mm)	Matching Designation	Deviation from axle L to maximum,(mm)	Diameter of conical axle hole d_z ,(mm)	Matching Designation	Deviation from axle L to maximum,(mm)
6~10	H8/k8	0	55~80	H8/k8	0
11~18		-0.22	85~120		-0.46
19~30		-0.27	125~180		-0.54
32~50		-0.33	190~220		-0.63
		0			0
		-0.39			-0.72

Remark: Matching Designation is the matching to the standard conical axle extension according to GB/T 1570.

Type of Coupling Connection

According to GB/T3852-1997

Name	Type and Designation	Illustration	Name	Type and Designation	Illustration
Single keyway of flat key	Type A		Single keyway of flat key of conical axle hole	Type C	
Double keyway of flat key with 120°	Type B		Normal shear keyway of cylindrical axle hole	Type D	
Double keyway of flat key with 180°	Type B1				
Rectangle spline	According to GB/T1144		Interference connection of Ladder-cylinder	Type UI	
Involute spline of cylindrical spur gear	According to GB/T3478		Conical interference connection	Type UZ	
Cylindrical interference connection	Type U		Expansion sleeve connection	Type Z2 Type Z5	

Remarks: 1. If the limited deviation of keyway width b is not mentioned when ordering, it will be made by P9 according to The Types and Sizes of Coupling Axle Hole and Connection of GB/T3852-1997, or by JS9 according to GB/T1095.
2. If the axle extension keyway wanted doesn't meet GB/T1095 standard, do mention while ordering.

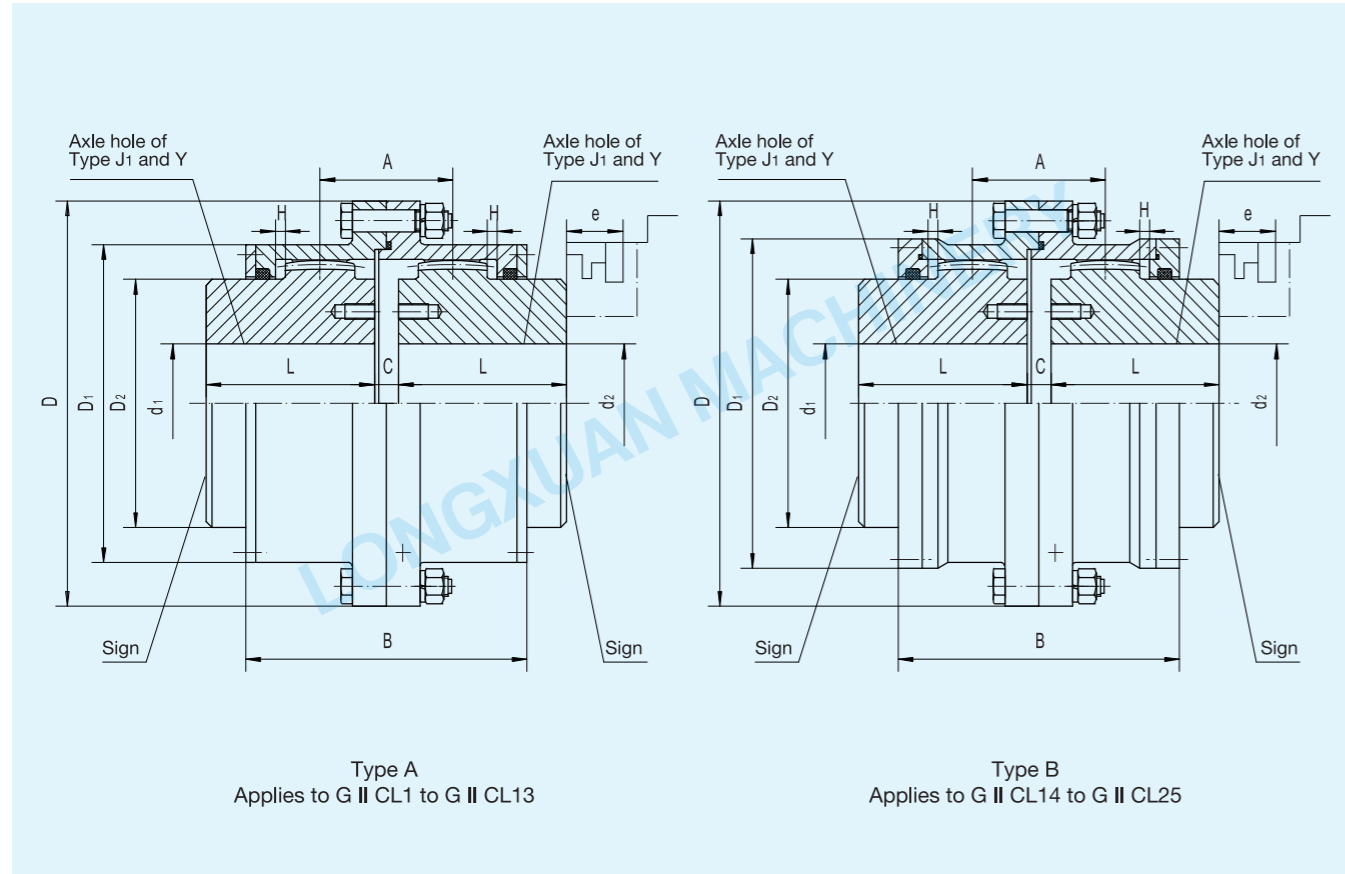
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Drum tooth-type coupling of Type GIICL



- Drum tooth-type coupling of Type G II CL applies to the transmission device with two horizontal coaxial lines. It's a drum tooth-type coupling with a certain angle compensates for relative offset of the two axis.
- Drum tooth-type coupling of Type G II CL has the advantages of compact structure, small size, large loading capacity, high transmission efficiency, low noise, easy installation, long period of maintenance, and so on. It's widely used in shafting transmission in metallurgy, mining industry, chemical industry, oil industry, hoisting and conveying industry, general machinery, and so on.
- The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 0.4 to 4,500 KN·m.



The basic parameters and the main dimensions of Embedded drum tooth-type coupling of Drum tooth-type coupling of Type G II CL by JB/T8854.2-2001

Model	Nominal torque T _n kN·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length L		D	D ₁	D ₂	C	H	A	B	e	Rotational Inertia Kg·m ²	Consumption of grease mL	Weight Kg		
			d ₁ , d ₂	Y	J ₁														
G II CL1	0.4	4000	16, 18, 19	42	—	103	71	50	8	2	36	76	38	—	0.0035	51	5.1		
			20, 22, 24	52	38													0.0035	3
			25, 28	62	44													0.0035	3.1
			30, 32, 35	82	60													0.00375	3.6
			40, 42, 45	112	84													0.00575	4.9
G II CL2	0.71	4000	20, 22, 24	52	—	115	83	60	8	2	42	88	42	—	0.00550	70	4.5		
			25, 28	62	44													0.006	5.1
			30, 32, 35, 38	82	60													0.00675	6.2
			40, 42, 45	112	84													0.010	7.5
			22, 24	52	—													0.0105	7.5
G II CL3	1.12	4000	25, 28	62	44	127	95	75	8	2	44	90	42	—	0.010	68	7		
			30, 32, 35, 38	82	60													0.010	6.9
			40, 42, 45, 48, 50, 55, 56	112	84													0.0113	8.6
			22, 24	52	—													0.0105	7.5
			38	82	60													0.02	10.1
G II CL4	1.8	4000	40, 42, 45, 48, 50, 55, 56	112	84	149	116	90	8	2	49	98	42	—	0.0223	87	12.2		
			60, 63, 65	142	107													0.0245	14.5
			40, 42, 45, 48, 50, 55, 56	112	84													0.0378	16.4
			60, 63, 65, 70, 71, 75	142	107													0.0433	19.6
			45, 48, 50, 55, 56	112	84													0.0663	22.1
G II CL5	3.15	4000	60, 63, 65, 70, 71, 75	142	107	167	134	105	10	2.5	55	108	42	—	0.075	125	16.4		
			80, 85, 90	172	132													0.0843	31.2
			45, 48, 50, 55, 56	112	84													0.0663	22.1
			60, 63, 65, 70, 71, 75	142	107													0.075	26.5
			80, 85, 90	172	132													0.0843	31.2

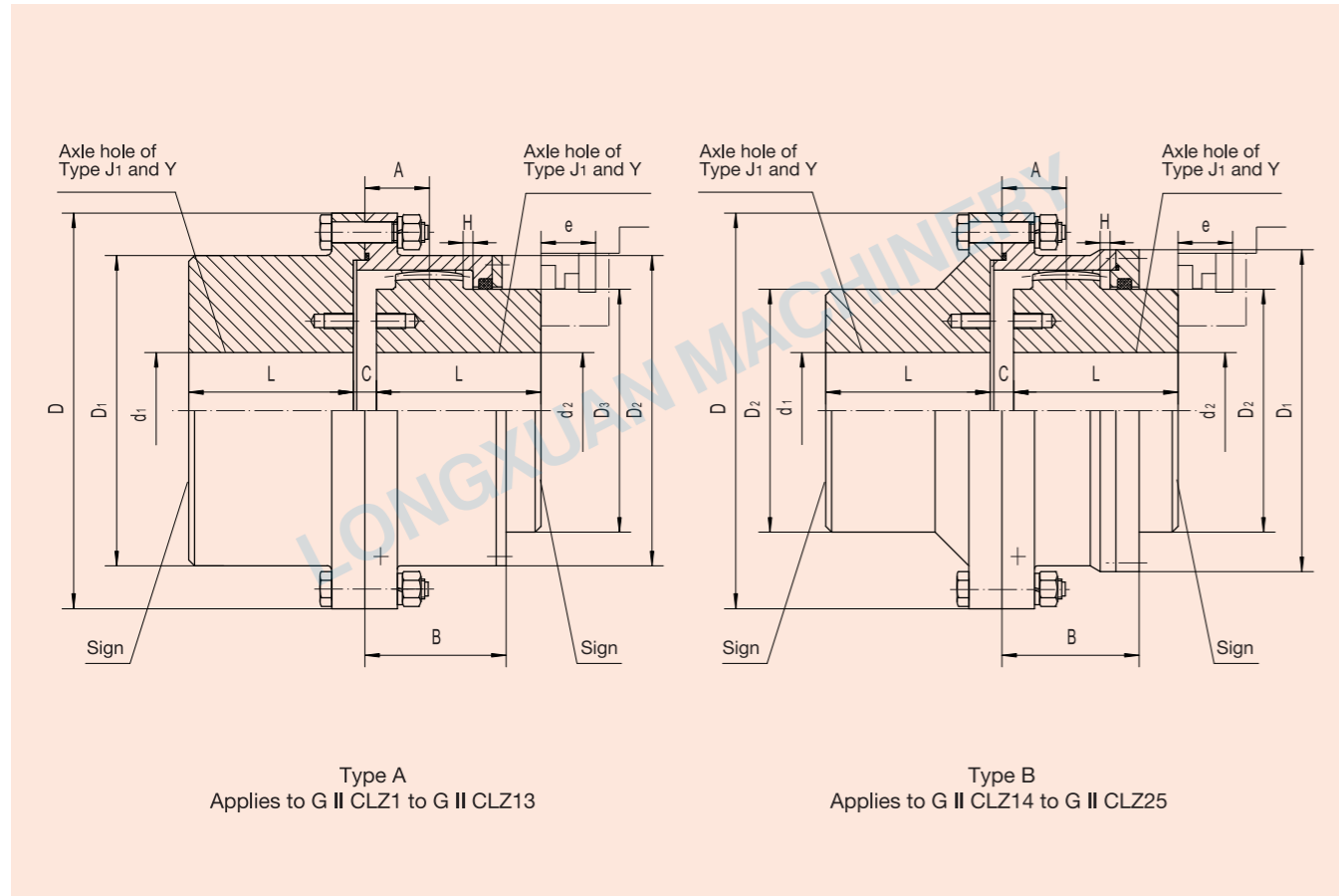
Model	Nominal torque T _n kN·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length L		D	D ₁	D ₂	C	H	A	B	e	Rotational Inertia Kg·m ²	Consumption of grease mL	Weight Kg		
			d ₁ , d ₂	Y	J ₁														
G II CL7	7.1	3750	50, 55, 56	112	84	204	170	140	10	2.5	60	118	42	—	0.103	175	27.6		
			60, 63, 65, 70, 71, 75	142	107													0.115	33.1
			80, 85, 90, 95	172	132													0.1298	39.2
			100, (105)	212	167													0.151	47.5
			55, 56	112	84													0.167	35.5
G II CL8	10.00	3300	60, 63, 65, 70, 71, 75	142	107	230	186	155	12	3	67	142	47	—	0.188	268	42.3		
			80, 85, 90, 95	172	132													0.210	49.7
			100, 110, (115)	212	167													0.241	60.2
			55, 56	112	84													0.167	35.5
			60, 63, 65, 70, 71, 75	142	107													0.188	42.3
G II CL9	16	3000	80, 85, 90, 95	172	132	256	212	180	12	3	69	146	47	—	0.316	310	55.6		
			100, 110, 120, 125	212	167													0.413	79.6
			130, (135)	252	202													0.470	95.8
			65, 70, 71, 75	142	107													0.511	72
			80, 85, 90, 95	172	132													0.573	84.4
G II CL10	22.4	2650	100, 110, 120, 125	212	167	287	239	200	14	3.5	78	164	47	—	0.659	472	101		
			130, 140, 150	252	202													0.745	119
			70, 71, 75	142	107													1.454	97
			80, 85, 90, 95	172	132													1.096	114
			100, 110, 120, 125	212	167													1.235	138
G II CL11	35.5	2350	130, 140, 150	252	202	325	276	235	14	3.5	81	170	47	—	1.340	550	161		
			160, 170, (175)	302	242													1.588	189
			75	142	107													1.623	128
			80, 85, 90, 95	172	132													1.828	150
			100, 110, 120, 125	212	167													2.113	205
G II CL12	50	2100	130, 140, 150	252	202	362	313	270	16	4	89	190	49	—	2.40	695	213		
			160, 170, 180	302	242													2.728	248
			190, 200	352	282													3.055	285
			150	252	202													3.925	269
			160, 170, 180, (185)	302	242													4.425	315
G II CL13	71	1850	190, 200, 220 (225)	352	282	412	350	300	18	4.5	98	208	49	—	4.918	1019	360		
			170, 180, (185)	302	242													8.025	421
			190, 200, 220	352	282													8.8	476
			240, 250	410	330													9.725	544
			190, 200, 220	352	282													14.300	608
G II CL14	112	1650	240, 250, 260	410	330	462	420	335	22	5.5	172	296	63	—	15.850	3700	696		
			280, (285)	470	380													17.45	786
			220	352	282													23.925	799
			240, 250, 260	410	330													26.45	913
			280, 300, 320	470	380													29.1	1027
G II CL15	180	1500	250, 260	410	330	512	470	380	22	5.5	182	316	63	—	17.45	3700	786		
			190, 200, 220	352	282													23.925	799
			240, 250, 260	410	330													26.45	913
			280, (285)	470	380													29.1	1027
			220	352	282													23.925	799
G II CL16	250	1300	240, 250, 260	410	330	580	522	430	28	7	209	354	67	—	23.925	4500	913		
			280, 300, 320	470	380													29.1	1027
			250, 260	410	330													43.095	1176
			280, (290), 300, 320	470	380													47.525	1322
			340, 360, (365)	550	450													53.725	1532
G II CL17	355	1200	280, (295), 300, 320	470	380	644	582	490	28	7	198	364	67	—	78.525	4900	1698		
			340, 360, (365)	550	450													87.750	1948
			280, (295), 300, 320	470	380													87.750	1948
			340, 360, 380	550	450													99.500	2278
			400	650	540													136.750	2249
G II CL18	500	1050	300, 320	470	380	726	658	540	28	8	222	430	75	—	87.750	7000	1948		
			340, 360, 380	550	450													99.500	2278
			400	650	540													136.750	2249
			300, 320	470	380													136.750	2249
			340, (350), 360, 380, (390)	550	450													153.750	2591
G II CL19	710	950	400, 420, 440, 450, 460, (470)	650	540	818	748	630	32	8	232	440	75	—	175.5	8900	3026		
			360, 380, (390)	550	450													261.75	3384
			400, 420, 440, 450, 460	650	540													299	11000
			480, 500	800	680													360.75	4430
			530, (540)	800	680													360.75	4430
G II CL20	1000	800	400, 420, 440, 450, 460	650	540	928	838	720	32	10.5	247	470	75	—	299	11000	3984		
			480, 500	800	680													360.75	4430
			530, (540)	800	680													360.75	4430
			400, 420, 440, 450, 460	650	540													468.75	4977
			480, 500	800	680													561.50	6152
G II CL21	1400	750	530, 560, 600	800	680	1022	928	810	40	11.5	255	490	75	—	468.75	13000	4977		
			480, 500	800	680													561.50	6152
			530, 560, 600	800	680													753.750	6318
			450, 460, 480, 500	650	540													753.750	6318
			530, 560, 600, 630	800	680													904.750	7738
G II CL22	1800	650	670, (680)	900	780	1134	1036	915	40	13	262	510	75	—	904.750	16000	7738		
			530, 560, 600, 630	800	680													1517	10013
			670, (700), 710, 750, (770)	900	780													1725	11553
			530, 560, 600, 630	800	680													1517	10013
			670, (700), 710, 750, (770)	900	780													1725	11553
G II CL23	2500	600	560, 600, 630	800	680	1282	1178	1030	50	14.5	299	580	80	—	1517	28000	10013		
			670, (700), 710, 750, (770)	900	780													1725	11553
			530, 560, 600, 630	800	680													1517	10013
			670, (700), 710, 750, (770)	900	780													1725	11553
			560, 600, 630	800	680													2486	12915
G II CL24	3550	550	670, (700), 710, 750	900	780	1428	1322	1175	50	16.5	317	610	80	—	2838.5	33000	15015		
			800, 850	1000	880													3131.75	16615
			670, (700), 710, 750	900	780													5174.25	19837
			800, 850	1000	880													5836.5	22381
			900, 950	—	980													6413	24765
G II CL25	4500																		

Drum tooth-type coupling of Type GIICLZ



LONGXUAN MACHINERY

- Drum tooth-type coupling of Type G II CLZ applies to the transmission device with two horizontal coaxial lines. It's a drum tooth-type coupling with a certain angle compensates for relative offset of the two axis.
- Drum tooth-type coupling of Type G II CLZ has the advantages of compact structure, small size, large loading capacity, high transmission efficiency, low noise, easy installation, long period of maintenance, and so on. It's widely used in shafting transmission in metallurgy, mining industry, chemical industry, oil industry, hoisting and conveying industry, general machinery, and so on.
- The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 0.4 to 4,500 KN-m.



The basic parameters and the main dimensions of Embedded drum tooth-type coupling of Drum tooth-type coupling of Type G II CLZ by JB/T8854.2-2001

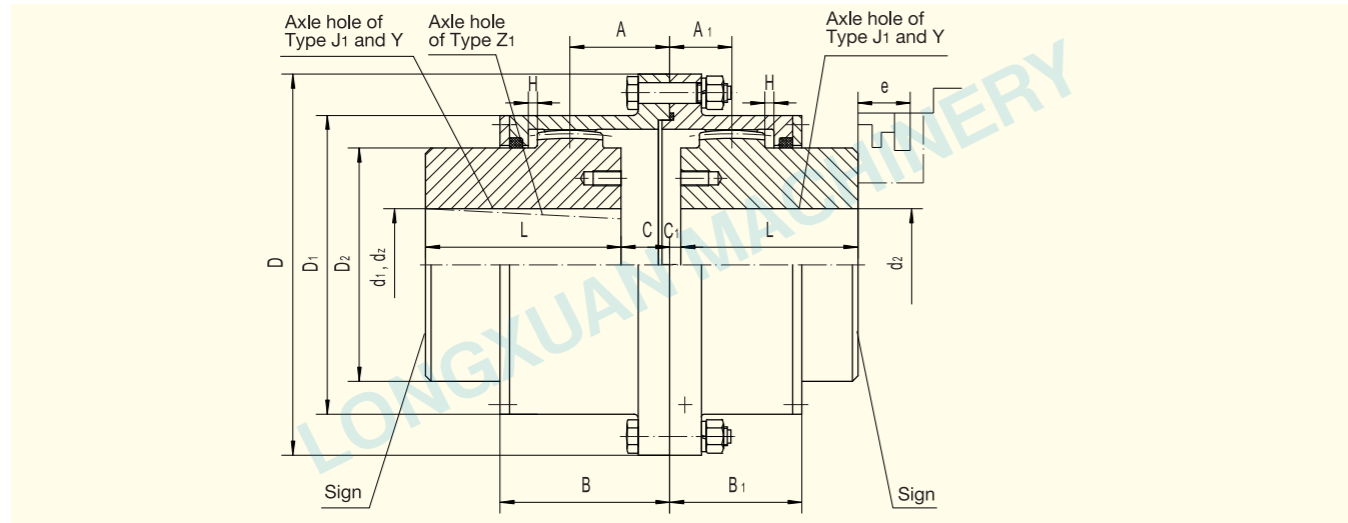
Model	Nominal torque T _n kN·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length L		D	D ₁	D ₂	D ₃	C	H	A	B	e	Rotational Inertia Kg·m ²	Consumption of grease mL	Weight Kg
			d ₁ ,d ₂	Y	J ₁													
G II CLZ1	0.4	4000	16,18,19	42	—	103	71	71	50	8	2	18	38	38	—	0.004	31	3.5
			20,22,24	52	38											0.00375		3.3
			25,28	62	44											0.004		3.5
			30,32,35,38*	82	60											0.005		4.1
			40*,42*,45*,48*,50*	112	84											0.007		5.7
G II CLZ2	0.71	4000	20,22,24	52	—	115	83	83	60	8	2	21	44	42	0.00675	42	5.3	
			25,28	62	44										0.00625		4.8	
			30,32,35,38	82	60										0.007		5.7	
			40,42,45,48*,50*,55*,56*	112	84										0.008		7.2	
			60*	142	107										0.01		9.2	
G II CLZ3	1.12	4000	22,24	52	—	127	95	95	75	8	2	22	45	42	0.009	42	3.8	
			25,28	62	44										0.011		7.8	
			30,32,35,38	82	60										0.011		7.6	
			40,42,45,48,50,55,56	112	84										0.01325		9.8	
			60*,63*,65*,70*	142	107										0.01675		12.5	
G II CLZ4	1.8	4000	38	82	60	149	116	116	90	8	2	24.5	49	42	0.02125	53	10.5	
			40,42,45,48,50,55,56	112	84										0.0255		13.5	
			60,63,65,70*,71*,75*	142	107										0.039		16.5	
			80*	172	132										0.04875		19.4	

Model	Nominal torque T _n kN·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length L		D	D ₁	D ₂	D ₃	C	H	A	B	e	Rotational Inertia Kg·m ²	Consumption of grease mL	Weight Kg
			d ₁ ,d ₂	Y	J ₁													
G II CLZ5	3.15	4000	40,42,45,48,50,55,56	112	84	167	134	134	105	10	2.5	27.5	54	42	0.044	77	18.1	
			60,63,65,70,71,75	142	107										0.05175		23.1	
			80*,85*,90*	172	132										0.0625		28.5	
G II CLZ6	5.00	4000	45,48,50,55,56	112	84	187	153	153	125	10	2.5	28	55	42	0.075	91	23.9	
			60,63,65,70,71,75	142	107										0.089		29.3	
			80,85,90,95*	172	132										0.10425		35.4	
			100*,(105)*	212	167										0.1065		36.2	
G II CLZ7	7.1	3750	50,55,56	112	84	204	170	170	140	10	2.5	30	59	42	0.1145	108	29.6	
			60,63,65,70,71,75	142	107										0.1335		36.3	
			80,85,90,95	172	132										0.157		43.8	
			100,(105),110*,(105)*	212	167										0.1898		54.3	
G II CLZ8	10.00	3300	55,56	112	84	230	186	186	155	12	3	33.5	71	47	0.184	161	37.8	
			60,63,65,70,71,75	142	107										0.215		46.1	
			80,85,90,95	172	132										0.249		54.9	
			100,110,(115),120*,125*	212	167										0.297		67.4	
G II CLZ9	16	3000	60,63,65,70,71,75	142	107	256	212	212	180	12	3	34.5	73	47	0.358	184	60	
			80,85,90,95	172	132										0.415		71.8	
			100,110,120,125	212	167										0.499		88	
			130,(135),140*,150*	252	202										0.575		104.4	
G II CLZ10	22.4	2650	65,70,71,75	142	107	287	239	239	200	14	3.5	39	82	47	0.58	276	76.1	
			80,85,90,95	172	132										0.6725		91.1	
			100,110,120,125	212	167										0.8025		111.5	
G II CLZ11	35.5	2350	110,120,125	212	167	325	250	276	235	14	3.5	40.5	85	47	1.223	322	137	
			130,140,150	252	202										1.41		162.4	
			160,170,(175)	302	242										1.625		193	
G II CLZ12	50	2100	130,140,150	252	202	362	286	313	270	16	4	44.5	95	49	2.39	404	212.8	
			160,170,180	302	242										2.763		268	
			190,200	352	282										3.093		290	
G II CLZ13	71	1850	150	252	202	412	322	350	300	18	4.5	49	104	49	3.93	585	272.3	
			160,170,180,(185)	302	242										4.535		320	
			190,200,220,(225)	352	282										6.34		370	
G II CLZ14	112	1650	170,180,(185)	302	242	462	420	335	—	22	5.5	86	148	63	6.9	1600	389	
			190,200,220	352	282										7.675		438	
			240,250	410	330										8.6		509	
G II CLZ15	180	1500	190,200,220	352	282	512	470	380	—	22	5.5	91	158	63	12.425	2100	566	
			240,250,260	410	330										13.975		650	
			280,(285)	470	380										15.575		740	
G II CLZ16	250	1300	250,260	410	330	580	522	430	—	28	7	104.5	177	67	21.2	2500	751	
			240,250,260	410	330										23.125		857	
			280,300,320	470	380										26.35		974	
G II CLZ17	355	1200	250,260	410	330	644	582	490	—	28	7	99	182	67	38.825	2700	1110	
			280,(290),300,320	470	380										43.25		1255	
			340,360,(365)	550	450										49.5		1465	
G II CLZ18	500	1050	280,(295),300,320	470	380	726	658	540	—	28	8	111	215	75	69.5	3900	1580	
			340,360,380	550	450										78.75		1830	
			400	650	540										90.5		2160	
G II CLZ19	710	950	300,320	470	380	818	748	630	—	32	9	116	220	75	122.5	5000	2115	
			340,(350),360,380,(390)	550	450										139.5		2457	
			400,420,440,450,460,(470)	650	540										161.25		2892	
G II CLZ20	1000	800	360,380,(390)	550	450	928	838	720	—	32	10.5	123.5	235	75	240	6200	3223	
			400,420,440,450,460,480,500	650	540										277.25		3793	
			530,(540)	800	680										335		4680	
G II CLZ21	1400	750	400,420,440,450,460,480,500	650	540	1022	928	810	—	40	11.5	127.5	245	75	435	7000	4780	
			530,560,600	800	680										527.75		5905	
			450,460,480,500	650	540										701.25		6069	
G II CLZ22	1800	650	530,560,600,630	800	680	1134	1036	915	—	40	13	131	255	75	852.25	8700	7504	
			670,(680)	900	780													
			530,560,600,630	800	680													
G II CLZ23	2500	600	670,(700),710,750,(770)	900	780	1282	1178	1030	—	50	14.5	149.5	290	80	1415.75	15000	9633	
			670,(700),710,750,(770)	900	780										1638.75		11133	
			560,600,630	800	680										2330.5		12460	
G II CLZ24	3550	550	670,710,750	900	780	1428	1322	1175	—	50	16.5	158.5	305	80	2682.75	18000	14465	
			800,850	1000	880										2976.25		16110	
			670,(700),710,750	900	780										5174.25		19837	
G II CLZ25	4500	460	800,850	1000	880	1644	1538	1390	—	50	19	162.5	310	80	5836.5	23000	22381	
			900,950	—	980										6413		24765	
			1000,(1040)	—	1100										7198.25		27797	

Remarks: 1. The Rotational Inertia and weight are calculated according to Type J₁, including axle extension.
 2. Size of axle hole marked with* in the Axle hole diameter column applies to d₁ only.
 3. Type J₁ is recommended to calculate the Axle hole length.
 4. The Axle hole diameter in parenthesis will not be adopted while redesigning.

Drum tooth-type coupling of Type GCLD

- Drum tooth-type coupling of Type GCLD applies to the transmission device with two horizontal coaxial lines. It's a drum tooth-type coupling with a certain angle compensates for relative offset of the two axis. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 1.12 to 50 KN·m.



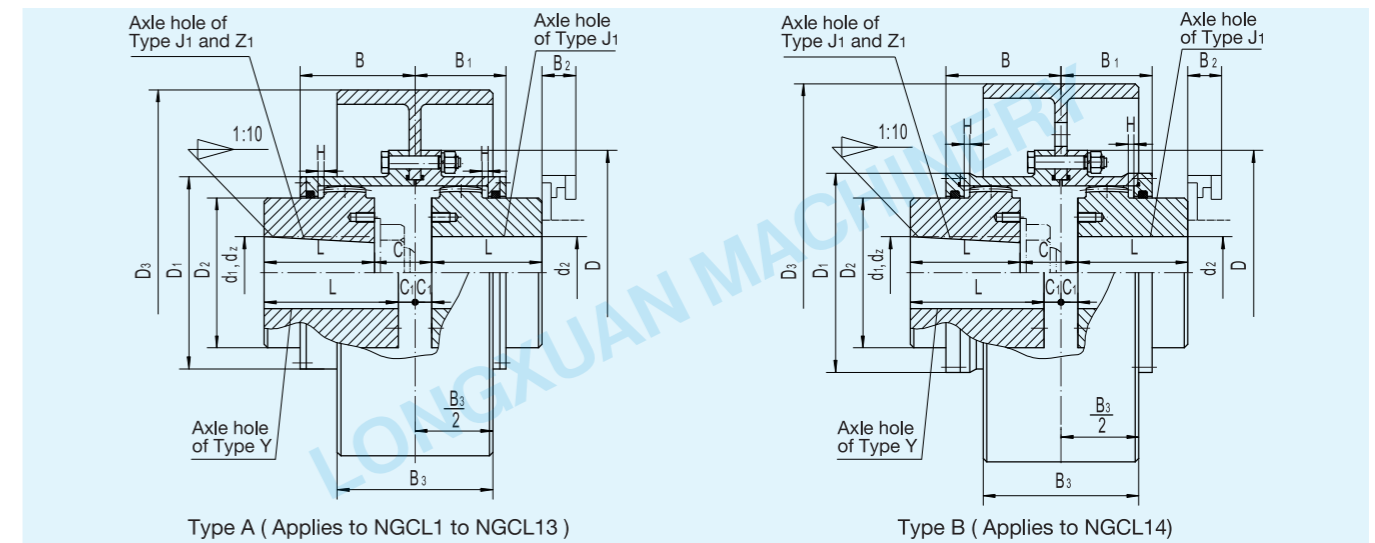
The basic parameters and the main dimensions of Drum tooth-type coupling of Type GCLD by JB/T8854.1-2001

Model	Nominal torque T_n kN·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length L		D	D ₁	D ₂	C	C ₁	H	A	A ₁	B	B ₁	e	Rotational Inertia Kg·m ²	Consumption of grease mL	Weight Kg
			d ₁ , d ₂ , d _z	Y	J ₁ , Z ₁															
GCLD1	1.12	4000	22,24	52	38	127	95	75	27	6	2	43	22	66	45	42	0.00875	107	6.2	
			25,28	62	44															0.01025
			30,32,35,38	82	60															0.011
			40,42,45,48,50,55,56	112	84															0.01175
GCLD2	1.8	4000	38	82	60	149	116	90	26.5	6.5	2	49.5	24.5	70	49	42	0.02425	137	14	
			40,42,45,48,50,55,56	112	84															0.02125
			60,63,65	142	107															0.0215
			60,63,65,70,71,75	142	107															0.04
GCLD3	3.15	4000	40,42,45,48,50,55,56	112	84	167	134	105	33	7	2.5	53.5	27.5	80	54	42	0.0475	201	17.2	
			60,63,65,70,71,75	142	107															0.0725
			45,48,50,55,56	112	84															0.0825
			60,63,65,70,71,75	142	107															0.095
GCLD4	5	4000	80,85,90	172	132	187	153	125	33.5	7.5	2.5	54	28	81	55	42	0.1125	238	26.4	
			50,55	112	84															0.1275
			60,63,65,70,71,75	142	107															0.145
			80,85,90,95	172	132															0.1675
GCLD5	7.1	3750	100,(105)	212	167	204	170	140	37.5	7.5	2.5	60	30	89	59	42	0.1875	298	31.6	
			55,56	112	84															0.21
			60,63,65,70,71,75	142	107															0.235
			80,85,90,95	172	132															0.2675
GCLD6	10	3300	100,110,(115)	212	167	230	186	155	43.5	8.5	3	68.5	33.5	106	71	47	0.3575	465	67.5	
			60,63,65,70,71,75	142	107															0.4
			80,85,90,95	172	132															0.4625
			100,110,120,125	212	167															0.5275
GCLD7	16	3000	130,(135)	252	202	256	212	180	48	9	3	73.5	34.5	112	73	47	0.560	561	81.7	
			80,85,90,95	172	132															0.6275
			100,110,120,125	212	167															0.72
			130,140,150	252	202															0.8125
GCLD8	22.4	2650	70,71,75	142	107	287	239	200	40.5	8.5	3.5	75	39	118	82	47	1.0775	734	112	
			80,85,90,95	172	132															1.2075
			100,110,120,125	212	167															1.3825
			130,140,150	252	202															1.56
GCLD9	35.5	2350	160,170,(175)	302	242	325	276	235	49.5	9.5	3.5	87.5	40.5	132	85	47	1.77	956	181	
			70,71,75	142	107															1.97
			80,85,90,95	172	132															2.0725
			100,110,120,125	212	167															2.38
GCLD10	50	2100	130,140,150	252	202	362	313	270	65	11	4	98.5	44.5	149	95	49	2.5625	1320	239	
			75	142	107															3.055
			80,85,90,95	172	132															3.4225
			100,110,120,125	212	167															

Remarks: 1.The axle extension is included in the Rotational Inertia and weight. 2. It's the new size needed when replacing the seal. 3.The Axle hole diameter in parenthesis will not be adopted while redesigning.

Drum tooth-type coupling with braking wheel of Type NGCL

- Drum tooth-type coupling with braking wheel of Type NGCL has a certain angle compensates for relative offset of the two axis. It has a compact structure and small rotational inertia, and applies in combination with Shoe brake. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 400 to 112,000 N·m.



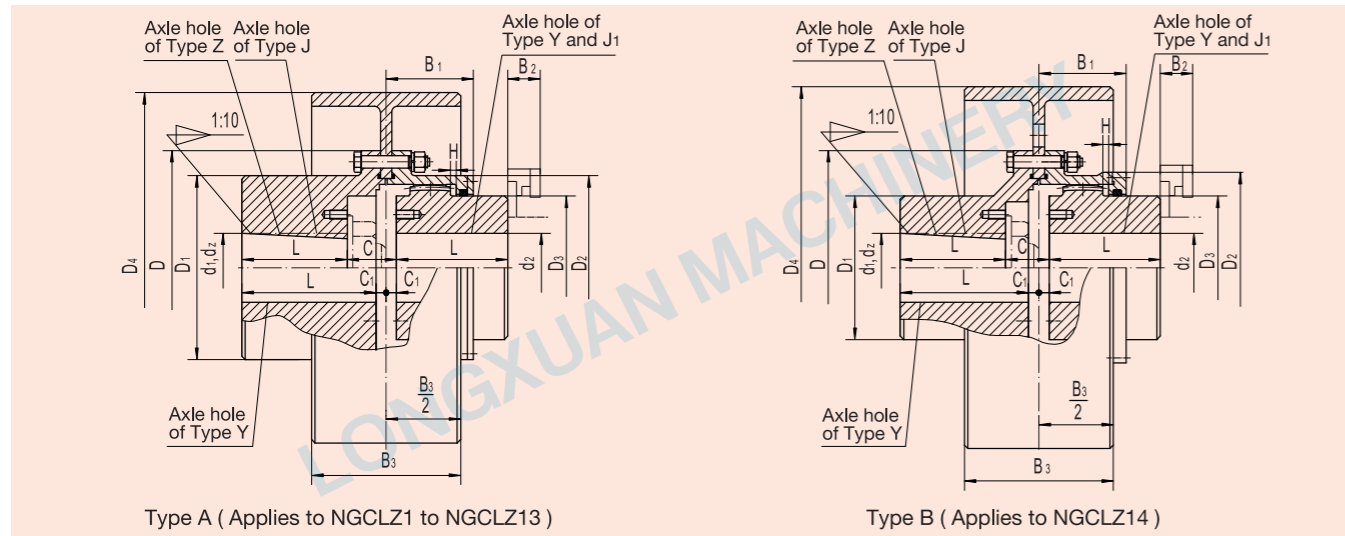
The basic parameters and the main dimensions of Drum tooth-type coupling with braking wheel of Type NGCL by JB/ZQ 4644-2006

Model	Nominal torque T_n N·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length		D	D ₁	D ₂	C	C ₁	H	B	B ₁	B ₂	D ₃	B ₃	Rotational Inertia Kg·m ²	Consumption of grease ml	Weight Kg
			d _z	d ₁ , d ₂	Y	J ₁ , Z ₁														
NGCL1	400	4000	20~	20,22,24	52	38	103	71	50	30	8	2	56	42	38	160	68	0.07	51	7
			25,28	62	44	0.07														
			30,32,35	82	60	0.071														
			35	82	60	0.083														
NGCL2	710	4000	25~	25,28	62	44	115	83	60	36	8	2	68	48	42	160	68	0.079	70	9
			30,32,35,38	82	60	0.08														
			40,42,45	112	84	0.083														
			45	112	84	0.083														
NGCL3	1120	3800	30~	28	62	44	127	95	75	41	8	2	70	49	42	200	85	0.181	107	14.6
			30,32,35,38	82	60	0.184														
			40,42,45,48,50,55,56	112	84	0.187														
			55	112	84	0.187														
NGCL4	1800	3800	40~	38	82	60	149	116	90	41	8	2	74	53	42	200	85	0.225	137	18.6
			40,42,45,48,50,55,56	112	84	0.237														
			60,63,65	142	107	0.246														
			65	142	107	0.246														
NGCL5	3150	3000	45~	40,42,45,48,50,55,56	112	84	167	134	105	48	8	2.5	84	58	42	250	105	0.58	201	31.8
			60,63,65,70,71,75	142	107	0.609														
			75	142	107	0.619														
			75	142	107	0.714														
NGCL6	5000	3000	50~	45,48,50,55,56	112	84	187	153	125	49	9	2.5	85	59	42	250	105	0.754	238	38.5
			60,63,65,70,71,75	142	107	0.795														
			80,85,90	172	132	0.795														
			90	172	132	0.795														
NGCL7	7100	2400	60~	50,55,56	112	84	204	170	140	53	9	2.5	93	63	42	315(300)	132	1.234	298	55.2
			60,63,65,70,71,75	142	107	1.299														
			80,85,90,95	172	132	1.388														
			100	212	167	1.388														
NGCL8	10000	1900	70~	55,56	112	84	230	186	155	64	12	3	112	77	47	400	168	3.841	465	90
			60,63,65,70,71,75	142	107	3.939														
			80,85,90,95	172	132	4.072														
			100,110	212	167	4.072														
NGCL9	16000	1500	80~	60,63,65,70,71,75	142	107	256	212	180	71	13	3	119	80	47	500	210	9.427	561	128
			80,85,90,95	172	132	9.605														
			100,110,120,125	212	167	9.847														
			130	252	202	10.109														
NGCL10	22400	1200	80~	65,70,71,75	142	107	287	239	200	65	15	3.5	120	90	47	630(600)	265	28.238	734	190
			80,85,90,95	172	132	28.879														
			100,110,120,125	212	167	29.248														
			130,140,150	252	202	29.248														
NGCL11	35500	1050	100~	70,71,75	142	107	325	276	235	77	16	3.5	134	94	47	710(700)	298	44.309	956	275
			80,85,90,95	172	132	45.53														
			100,110,120,125	212	167	46.235														
			130,140,150	252	202	46.235														
NGCL12	50000	1050	150~	160,170	302	242	362	313	270	94	17	4	164	104	49	710(700)	298	47.88	1320	306
			75	142	107	48.29														
			80,85,90,95	172	132	49.52														
			100,110,120,125	212	167	49.52														
NGCL13	71000	950	150~	130,140,150	252	202	412	350	300	88	18	4.5	165	113	49	800	335	50.25	1600	544
			160,170,180	302	242	52.22														
			190,200,220	352	282	53.69														
			240,250	410	330	53.69														
NGCL14	112000	950	170~	170,180	302	242	462	420	335	92	20	5.5	209	157	63	800	335	53.69	3500	670
			190,200,220	352	282	82.7														
			240,250	410	330	84.7														
			240,250	410	330	86.67														

Remarks: The sizes in parenthesis will not be adopted while redesigning.

Drum tooth-type coupling with braking wheel of Type NGCLZ

- Drum tooth-type coupling with braking wheel of Type NGCLZ has a certain angle compensates for relative offset of the two axis. It has a compact structure and small rotational inertia, and applies in combination with Shoe brake. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 400 to 112,000 N·m.



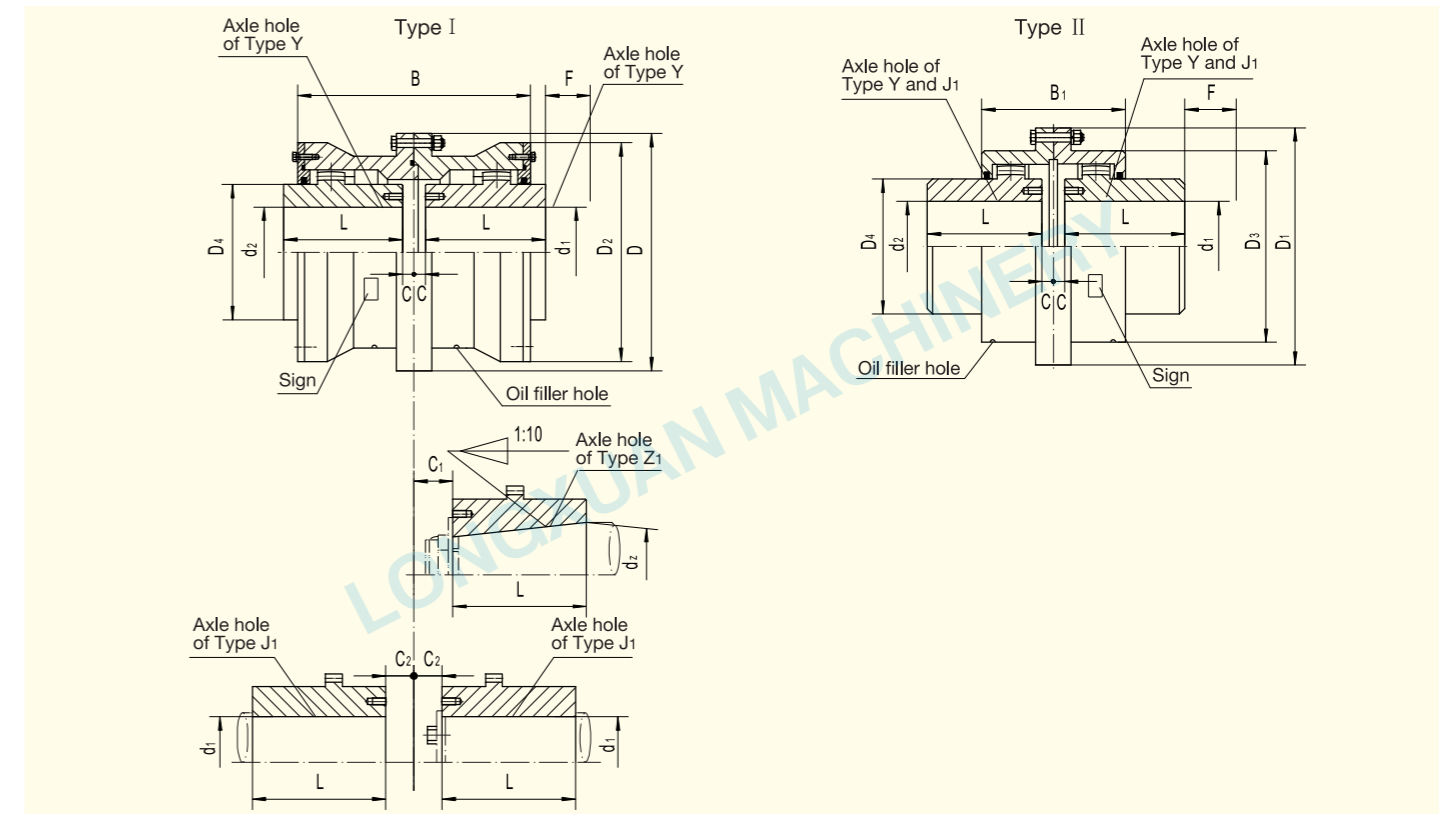
- The basic parameters and the main dimensions of Drum tooth-type coupling with braking wheel of Type NGCLZ by JB/ZQ 4645-2006

Model	Nominal torque T_n N·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length		D	D ₁	D ₂	D ₃	C	C ₁	H	B ₁	B ₂	D ₄	B ₃	Rotational Inertia Kg·m ²	Consumption of grease ml	Weight Kg
			d ₂	d ₁ , d ₂	Y	J, J ₁ , Z														
NGCLZ1	400	4000	20~35	20, 22, 24	52	38	103	71	71	50	33	8	2	42	38	160	68	0.071	31	7.3
				25, 28	62	44												0.072		7.4
				30, 32, 35	82	60												0.076		8.4
NGCLZ2	710	4000	25~42	25, 28	62	44	115	83	83	60	39	8	2	48	42	160	68	0.081	42	9.2
				30, 32, 35, 38	82	60												0.084		10.3
				40, 42, 45	112	84												0.088		10.5
NGCLZ3	1120	3800	30~42	28	62	44	127	95	95	75	39	8	2	49	42	200	85	0.181	65	15.1
				30, 32, 35, 38	82	60												0.184		16.3
				40, 42, 45, 48, 50, 55	112	84												0.193		18.8
NGCLZ4	1800	3800	40~55	38	82	60	149	116	116	90	46	8	2	53	42	200	85	0.225	82	19.8
				40, 42, 45, 48, 50, 55, 56	112	84												0.242		23.3
				60, 63, 65	142	107												0.296		26.8
NGCLZ5	3150	3000	45~75	40, 42, 45, 48, 50, 55, 56	112	84	167	134	134	105	47	9	2.5	58	42	250	105	0.596	120	33.3
				60, 63, 65, 70, 71, 75	142	107												0.627		39
				45, 48, 50, 55, 56	112	84												0.72		40
NGCLZ6	5000	3000	50~75	60, 63, 65, 70, 71, 75	142	107	187	153	153	125	52	9	2.5	59	42	250	105	0.776	143	46.4
				80, 85, 90	172	132												0.837		53.2
				50, 55, 56	112	84												1.178		51.8
NGCLZ7	7100	2400	60~80	60, 63, 65, 70, 71, 75	142	107	204	170	170	140	52	9	2.5	63	42	315 (300)	132	1.254	179	59.8
				80, 85, 90, 95	172	132												1.348		68.2
				100	212	167												1.479		79.6
NGCLZ8	10000	1900	70~95	55, 56	112	84	230	186	186	155	57	12	3	77	47	400	168	3.734	274	84
				60, 63, 65, 70, 71, 75	142	107												3.86		93.1
				80, 85, 90, 95	172	132												3.996		104
NGCLZ9	16000	1500	75~110	100, 110	212	167	256	212	212	180	64	13	3	80	47	500	210	9.43	337	133
				60, 63, 65, 70, 71, 75	142	107												9.663		146
				80, 85, 90, 95	172	132												9.997		164
NGCLZ10	22400	1200	80~120	130	252	202	287	239	239	200	66	15	3.5	90	47	630 (600)	265	29.32	440	184
				65, 70, 71, 75	142	107												29.69		200
				80, 85, 90, 95	172	132												30.21		222
NGCLZ11	35500	1050	90~140	130, 140, 150	252	202	325	270	276	235	74	16	3.5	94	47	710 (700)	298	44	574	240
				70, 71, 75	142	107												45		262
				80, 85, 90, 95	172	132												45.5		299
NGCLZ12	50000	1050	100~170	160, 170	302	242	362	310	313	270	84	16	4	104	49	710 (700)	298	48	792	317
				80, 85, 90, 95	172	132												49		355
				100, 110, 120, 125	212	167												50		382
NGCLZ13	71000	950	150~170	130, 140, 150	252	202	412	322	350	300	86	17	4.5	113	49	800	335	51	960	443
				160, 170, 180	302	242												52		470
				190, 200	352	282												53		488
NGCLZ14	112000	950	170~220	170, 180	302	242	462	380	420	335	98	18	5.5	157	63	800	335	82	1200	638
				190, 200, 220	352	282												85		698
				240, 250	410	330												92		780

Remarks: The sizes in parenthesis must not be adopted while redesigning.

Drum tooth-type coupling of Type WG

- Drum tooth-type coupling of Type WG applies to the transmission device with two horizontal coaxial lines. It's a drum tooth-type coupling with a certain angle compensates for relative offset of the two axis. The temperature of its working condition is from -20 °C to 100 °C. The nominal transmission torque is from 800 to 1,400,000 N·m.



- The basic parameters and the main dimensions of Drum tooth-type coupling of Type WG by JB/ZQ 4186-2006

Model	Nominal torque T_n N·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length		D	D ₁	D ₂	D ₃	D ₄	B	B ₁	F	C	C ₁	C ₂	Weight		Rotational Inertia		Total consumption of grease		
			d ₁ , d ₂ , d ₃ mm	L mm	Y	J ₁ , Z ₁												I	II	I	II	I	II	
																								I
WG1	800	7500	12, 14	32	—	122	115	98	88	60	116	100	30	30	—	—	—	5.6	4.86	0.008	0.0063	0.085	0.04	
				16, 18, 19	42									—	20	14	—							—
				20, 22, 24	52									—	10	4	—							—
				25, 28	62									44	3	3	19							18
				30, 32, 35, 38	82									60	3	3	23							12
WG2	1400	6700	22, 24	52	—	150	145	118	108	77	136	104	30	20	4	—	—	9.78	7.48	0.021	0.016	0.09	0.06	
				25, 28	62									—	10	3	—							—
				30, 32, 35, 38	82									60	3	3	23							16
				40, 42, 45, 48, 50, 55, 56	112									84	3	3	29							16
				22, 24	52									—	33	7	—							—
WG3	2800	6300	25, 28	62	—	170	165	140	125	90	160	108	30	23	3	—	—	16.7	12.2	0.047	0.033	0.17	0.10	
				30, 32, 35, 38	82									60	3	3	29							16
				40, 42, 45, 48	112									84	3	3	36							16
				50, 55, 56	142									107	3	3	41							17
				60, 63	172									132	23	3	—							—
WG4	5000	5600	30, 32, 35, 38	82	—	200	195	160	145	112	180	116	30	13	3	—	—	25.6	19.6	0.098	0.073	0.25	0.15	
				40, 42, 45, 48	112									84	3	3	36							17
				50, 55, 56	142									107	3	3	41							17
				60, 63, 65, 70, 71, 75	172									132	23	3	—							—
				80	172									132	3	3	29							19
WG5	8000	5300	30, 32, 35, 38	82	—	225	215	180	168	128	200	126	30	23	3	—	—	35.0	26.1	0.175	0.126	0.35	0.22	
				40, 42, 45, 48, 50, 55, 56	112									84	3	3	36							19
				60, 63, 65, 70, 71, 75	142									107	3	3	41							19
				80, 85, 90	172									132	3	3	41							19
				32, 35, 38	82									—	35	5	—							—
WG6	11200	5000	40, 42, 45, 48, 50, 55, 56	112	—	245	230	200	185	145	224	134	30	5	5	—	—	51.6	38.0	0.295	0.213	0.40	0.20	
				60, 63, 65, 70, 71, 75	142									107	5	5	38							20
				80, 85, 90, 95	172									132	5	5	43							20
				100	212									167	5	5	48							20
				32, 35, 38	82									—	5	5	—							—

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ , d ₂ , d _z mm		Axle hole length L mm		D ₀ mm	D mm	D ₂ mm	D ₄ mm	B mm	F mm	N mm	C mm	C ₁ mm	C ₂ mm	C ₃ mm	Weight Kg	Rotational Inertia Kg·m ²	Total consumption of grease Kg	
			Y	J ₁ , Z ₁																	
WGP4	5000	3000	30,32,35,38	82	—	400	200	160	112	90	30	45	13	—	—	3	17	3	25.3	0.098	0.28
			40,42,45,48,50,55,56	112	84	450															
			60,63,65,70,71,75	142	107	500															
			80	172	132	500															
WGP5	8000	2500	30,32,35,38	82	—	400	225	180	128	100	30	45	23	—	—	3	19	3	34.7	0.174	0.45
			40,42,45,48,50,55,56	112	84	450															
			60,63,65,70,71,75	142	107	500															
			80,85,90	172	132	500															
WGP6	11200	2000	32,35,38	82	—	450	245	200	145	112	30	44	35	—	—	5	20	3	51.3	0.293	0.65
			40,42,45,48,50,55,56	112	—	500															
			60,63,65,70,71,75	142	107	560															
			80,85,90,95	172	132	630															
WGP7	16000	1700	32,35,38	82	—	450	272	230	160	122	30	44	45	—	—	5	20	3	68	0.53	0.80
			40,42,45,48,50,55,56	112	—	500															
			60,63,65,70,71,75	142	107	560															
			80,85,90,95	172	132	630															
WGP8	22400	1700	55,56	112	—	500	290	245	176	136	30	44	29	—	—	5	20	3	79	0.71	0.95
			60,63,65,70,71,75	142	107	560															
			80,85,90,95	172	132	630															
			100,110,120,125	212	167	710															
WGP9	28000	1600	65,70,71,75	142	107	560	315	265	190	140	30	58	5	38	38	5	28	3	106.5	1.05	1.30
			80,85,90,95	172	132	630															
			100,110,120,125	212	167	710															
			130,140	252	202	800															
WGP10	45000	1600	75	142	—	630	355	300	225	165	30	58	28	—	—	5	28	3	159	1.74	1.60
			80,85,90,95	172	132	710															
			100,110,120,125	212	167	800															
			130,140,150	252	202	800															
WGP11	63000	1400	160	302	242	710	412	345	256	180	40	58	15	—	—	8	32	4	215	3.67	2.0
			85,90,95	172	—	800															
			100,110,120,125	212	167	900															
			130,140,150	252	202	900															
WGP12	90000	1400	120,125	212	167	710	440	375	288	207	40	58	8	51	45	8	32	4	303	6.40	3.40
			130,140,150	252	202	800															
			160,170,180	302	242	900															
			190,200	352	282	900															
WGP13	125000	1400	140,150	252	202	800	490	425	320	235	50	58	8	56	38	8	32	4	391	10.45	4.40
			160,170,180	302	242	900															
			190,200,220	352	282	900															
			76	—	—	900															
WGP14	180000	1200	160,170,180	302	242	900	545	462	362	265	50	65	10	68	—	7	32	4	523	17.48	6.60
			190,200,220	352	282	1000															
			240,250,260	410	330	1000															
			10	—	—	1000															

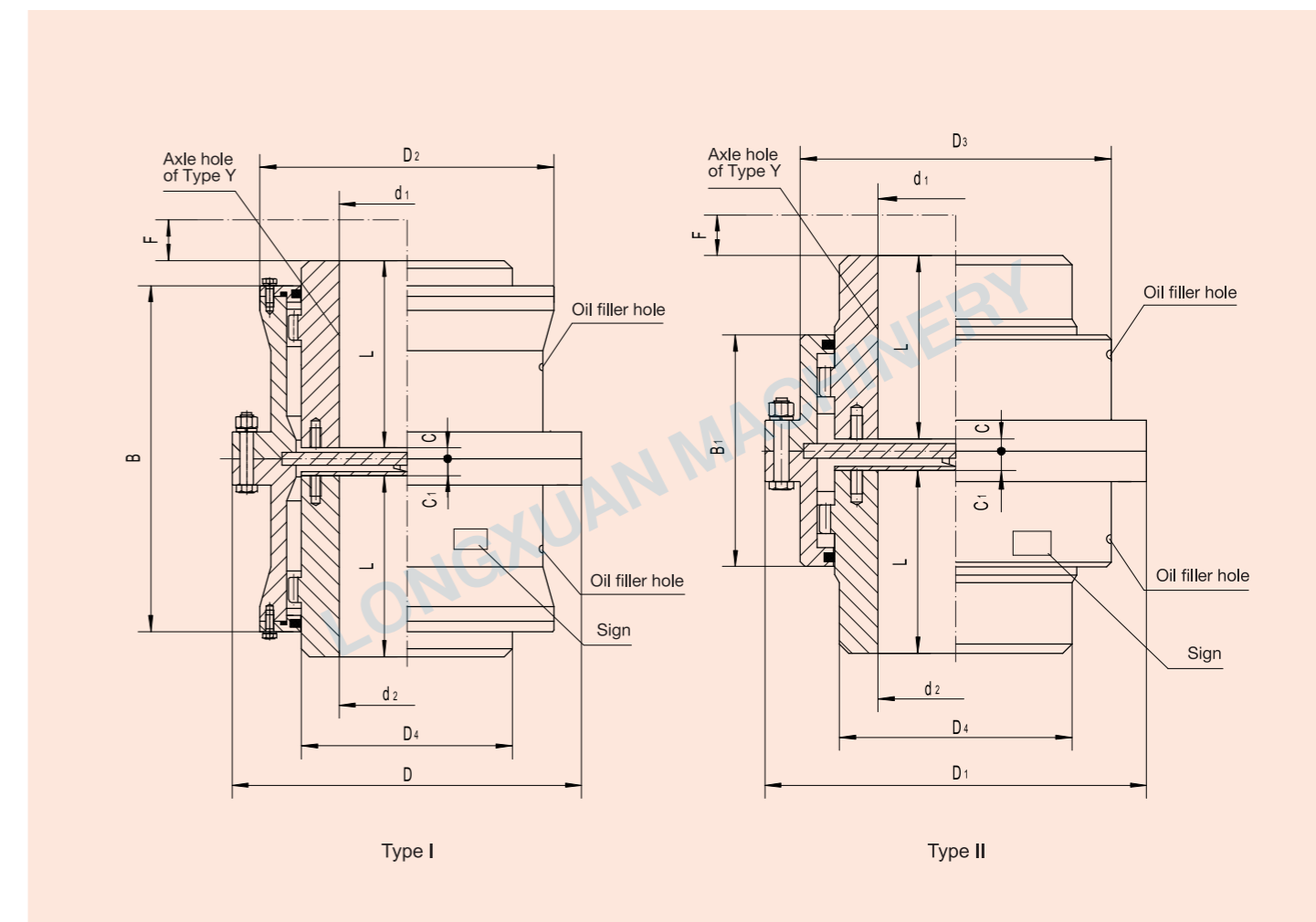
Remarks: 1. The weight and the rotational inertia are the approximate values according to the maximum Axle hole diameter, regardless of the braking disc. The braking disc weight and the rotational inertia are seen in Figure 2.
 2. The maximum value of conical axle is 220 mm.
 3. The diameters of different braking discs, i.e. C, C₁ and C₂, are the ones in the Figure superadd K/2, the value of K is shown in Figure 2.
 4. N=S - K/2, the values of S and K are shown in Figure 2. K is the value when the diameter of the braking disc is the maximum.

Main size, weight and rotational inertia of braking disc.

Figure 2

Diameter D ₀ mm	T mm	K mm	S mm	D _{Smax} mm		Weight Kg		Rotational inertia Kg·m ²	
				I, III	II, IV	I, III	II, IV	I, III	II, IV
315	15	10	42	180	155	8.5	6.7	0.116	0.110
355	15	10	54	200	175	11.4	9.9	0.192	0.178
400	15	14	54	255	230	15.2	12.4	0.320	0.287
450	15	16	54	305	280	19.7	15.6	0.550	0.462
500	15	18	54	325	295	25.0	20.0	0.830	0.712
560	15	18	54	350	320	30.7	25.6	1.280	1.127
630	15	20	54	400	360	38.8	33.0	2.060	1.826
710	15	20	54	480	450	46.5	39.4	3.320	2.912
800	15	24	70	540	500	67.8	52.7	5.870	4.810
900	15	24	70	600	560	86.6	70.3	9.300	7.852
1000	20	30	80	620	560	128.8	115.1	17.400	15.650

Vertical drum tooth-type coupling of Type WGC applies to the transmission device with two vertical coaxial lines. The temperature of its working condition is from -20 °C to 100 °C. The nominal transmission torque is from 800 to 180,000 N·m.



The basic parameters and the main dimensions of Vertical drum tooth-type coupling of Type WGC by JB/T 7002-2007

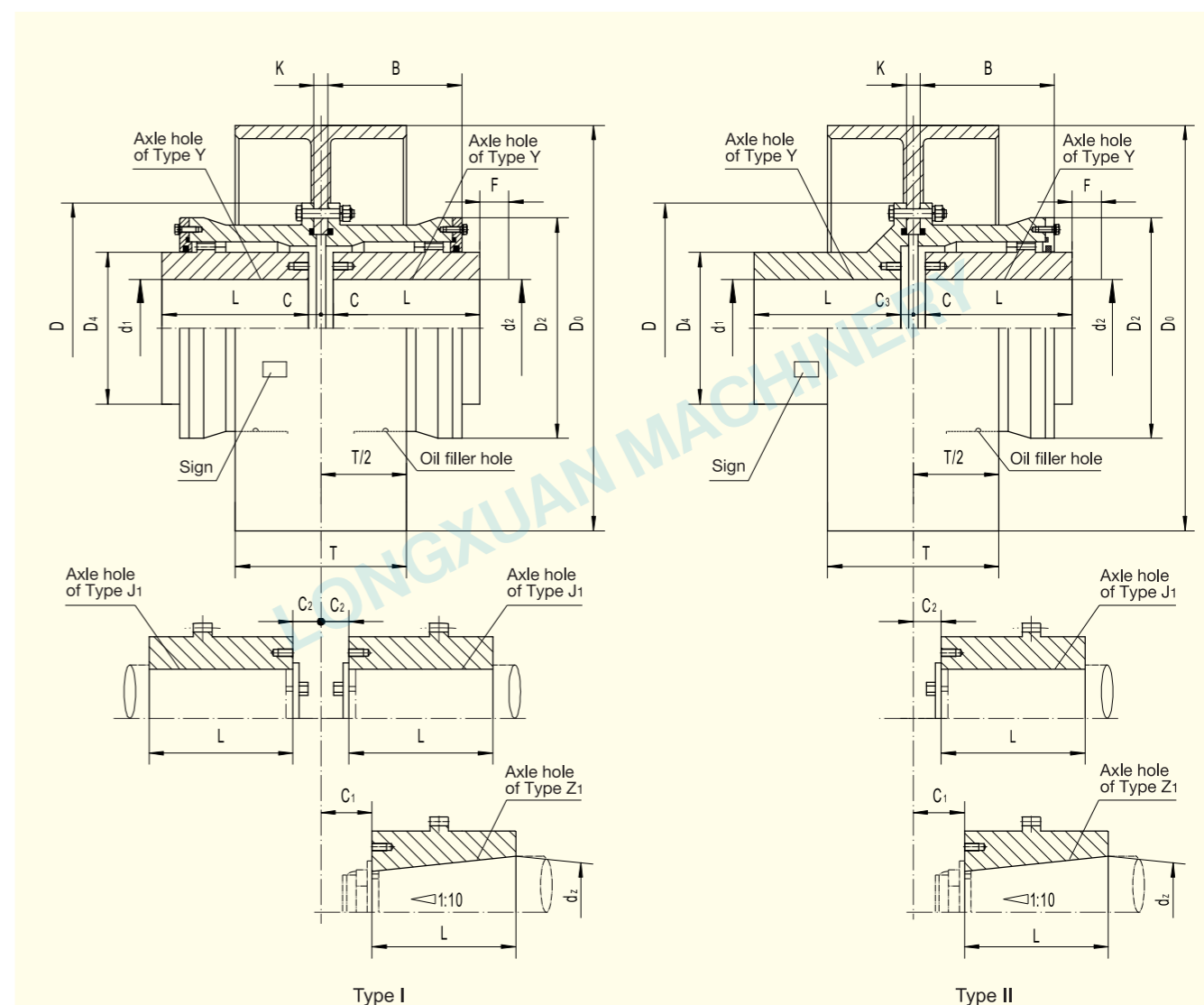
Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ , d ₂ mm		Axle hole length L mm	D mm	D ₁ mm	D ₂ mm	D ₃ mm	D ₄ mm	B mm	B ₁ mm	F mm	C mm		C ₁ mm	Weight Kg	Rotational Inertia Kg·m ²		Grease Kg		
			I	II										I	II			I	II	The upper	The under	The upper
WGC1	800	7500	12,14	32	122	115	98	88	60	116	100	30	30	—	30	5.8	5.1	0.0079	0.0064	0.070	0.016	0.052
			16,18,19	42									20	14	20							
			20,22,24	52									10	6	—							
			25,28	62									—	—	—							
			30,32,35,38	82									6	6	14							
WGC2	1400	6700	40,42	112	150	145	118	108	77	136	104	30	20	—	20	10	7.9	0.022	0.017	0.095	0.025	0.069
			22,24	52									10	—	—							
			25,28	62									—	—	—							
			30,32,35,38	82									7	7	16							
			40,42,45,48	112									—	—	—							
WGC3	2800	6300	50,55,56	—	170	165	140	125	90	160	108	30	33	—	33	17	12.8	0.047	0.033	0.17	0.07	0.11
			22,24	52									23	23	—							
			25,28	62									—	—	—							
			30,32,35,38	82									7	7	20							
			40,42,45,48	112									—	—	—							

Drum tooth-type coupling with braking wheel of Type WGZ

Model	Nominal torque T_n N·m	Allowable speed [n] r/min	Axle hole diameter d_1, d_2 mm	Axle hole length L mm	D mm	D ₁ mm	D ₂ mm	D ₃ mm	D ₄ mm	B mm	B ₁ mm	F mm	C mm		Weight Kg		Rotational Inertia Kg·m ²		Grease Kg			
													I	II	I	II	I	II	The upper	The under	The upper	The under
WGC4	5000	5600	30,32,35,38	82	200	195	160	145	112	180	116	30	7	7	20	26.2	20.5	0.099	0.074	0.29	0.11	0.14
			40,42,45,48	112																		
			50,55,56																			
			60,63,65	142																		
			70,71,75	172																		
WGC5	8000	5300	30,32,35,38	82	225	215	180	168	128	200	126	30	8	8	26	36.1	27.7	0.177	0.13	0.36	0.15	0.21
			40,42,45,48	112																		
			50,55,56																			
			60,63,65	142																		
			70,71,75	172																		
WGC6	11200	5000	32,35,38	82	245	230	200	185	145	224	134	30	10	10	24	53.2	39.8	0.30	0.22	0.50	0.21	0.27
			40,42,45,48	112																		
			50,55,56																			
			60,63,65	142																		
			70,71,75	172																		
WGC7	16000	4500	80,85,90,95	172	272	265	230	210	160	244	148	30	10	28	71.1	47.5	0.53	0.35	0.78	0.31	0.4	
			32,35,38	82																		
			40,42,45,48	112																		
			50,55,56																			
			60,63,65	142																		
WGC8	22400	4250	100,110,125	212	290	272	245	225	176	272	162	30	10	10	30	83	59.6	0.72	0.47	0.98	0.43	0.52
			55,56	112																		
			60,63,65	142																		
			70,71,75	172																		
			80,85,90,95	212																		
WGC9	28000	4000	100,110,125	212	315	305	265	245	190	280	176	30	10	10	30	110	85	1.06	0.8	1.3	0.57	0.58
			65,70,71,75	142																		
			80,85,90,95	172																		
			100,110,125	212																		
			130,140	252																		
WGC10	45000	3550	75	142	355	340	300	280	225	330	196	30	10	10	30	164	128	1.77	1.56	1.6	0.7	0.69
			80,85,90,95	172																		
			100,110,120,125	212																		
			130,140,150	252																		
			160	302																		
WGC11	63000	3000	85,90,95	172	412	385	345	325	256	360	224	40	14	14	36	224	178	3.76	2.88	2.1	0.93	0.94
			100,110,120,125	212																		
			130,140,150	252																		
			160,170,180	302																		
			120,125	212																		
WGC12	90000	2800	130,140,150	252	440	435	375	360	288	414	250	40	14	14	36	315	255	6.55	4.93	3.1	1.3	1.5
			160,170,180	302																		
			190,200	352																		
			140,150	252																		
			160,170,180	302																		
WGC13	125000	2500	160,170,180	302	490	480	425	400	320	470	272	50	14	14	36	406	325	10.6	8.0	4.5	1.5	2.3
			190,200,220	352																		
			160,170,180	302																		
			140,150	252																		
			190,200,220	352																		
WGC14	180000	2300	190,200,220	352	545	540	462	440	362	530	316	50	16	16	36	542	423	17.8	13.9	6.8	2.3	3.1
			240,250,260	410																		

Remarks: The weight and the rotational inertia are the approximate values of Type Y which has the maximum Axle hole diameter.

- Drum tooth-type coupling with braking wheel of Type WGZ is used in conjunction with brake shoe, and has a certain angle compensates for relative offset of the two axis. The temperature of its working condition is from -20 °C to 100 °C. The nominal transmission torque is from 800 to 1800,000 N·m.



Remarks:
 Driving End: Axle Hole of Type Y, Keyway of Type A, $d_1 = 50$ mm, $L = 112$ mm.
 Driven End: Axle Hole of Type Y, Keyway of Type A, $d_2 = 50$ mm, $L = 112$ mm.
 WGZ6 Coupling of Type I, whose diameter of braking disc $D_0 = 400$ mm, is marked as: Coupling WGZ6-400 50°112-I by JB/T7003-2007.

- The basic parameters and the main dimensions of Drum tooth-type coupling with braking wheel of Type WGZ by JB/T 7003-2007

Figure 1

Model	Nominal torque T_n N·m	Allowable speed [n] r/min	Axle hole diameter d_1, d_2, d_z mm	Axle hole length L mm		D ₀ mm	D mm	D ₂ mm	D ₄ mm	B mm	F mm	C mm	C ₁ mm	C ₂ mm	C ₃ mm	Weight Kg	Rotational Inertia Kg·m ²	Total consumption of grease Kg
				Y	J _{1, Z1}													
WGZ1	800	4000	12,14	32	—	160	122	98	60	58	30	30	—	—	—	5.62	0.0078	0.11
			16,18,19	42	—													
			20,22,24	52	—													
			25,28	62	44													
			30,32,35,38	82	60													
WGZ2	1400	4000	40,42	112	84	200	150	118	77	68	30	20	—	—	—	9.65	0.022	0.12
			22,24	52	—													
			25,28	62	—													
			30,32,35,38	82	60													
			40,42,45,48,50,55,56	112	84													

Drum tooth-type coupling with intermediate sleeve of Type WGT

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ , d ₂ , d _z mm		Axle hole length L mm		D ₀ mm	D mm	D ₂ mm	D ₄ mm	B mm	F mm	C mm	C ₁ mm	C ₂ mm	C ₃ mm	Weight Kg	Rotational Inertia Kg·m ²	Total consumption of grease Kg
			Y	J ₁ , Z ₁	Y	J ₁ , Z ₁													
WGZ3	2800	4000	22,24	52	—	—	200	170	140	90	80	30	33	—	—	2	16.6	0.047	0.20
			25,28	62	—	—	23						—	—					
			30,32,35,38	82	60	—	—						23	25					
			40,42,45,48,50,55,56	112	84	—	—						29	—					
WGZ4	5000	3000	60,63	142	107	—	250	200	160	112	90	30	13	—	—	2	25.3	0.098	0.28
			30,32,35,38	82	—	—	—						—	—					
			40,42,45,48,50,55,56	112	84	—	—						29	—					
			60,63,65,70,71,75	142	107	—	—						36	17					
WGZ5	8000	3000	80	172	132	—	315	225	180	128	100	30	23	—	—	2	34.7	0.174	0.45
			30,32,35,38	82	—	—	—						—	—					
			40,42,45,48,50,55,56	112	84	—	—						29	—					
			60,63,65,70,71,75	142	107	—	—						36	19					
WGZ6	11200	3000	80,85,90	172	132	—	400	245	200	145	112	30	35	—	—	2	51.3	0.293	0.65
			32,35,38	82	—	—	—						—	—					
			40,42,45,48,50,55,56	112	—	—	—						—	—					
			60,63,65,70,71,75	142	107	—	—						38	20					
WGZ7	16000	2500	80,85,90,95	172	132	—	400	272	230	160	122	30	45	—	—	3	68	0.53	0.80
			32,35,38	82	—	—	—						—	—					
			40,42,45,48,50,55,56	112	—	—	—						—	—					
			60,63,65,70,71,75	142	107	—	—						38	20					
WGZ8	22400	2500	80,85,90,95	172	132	—	500	290	245	176	136	30	15	—	—	3	79	0.71	0.95
			55,56	112	—	—	—						—	—					
			60,63,65,70,71,75	142	107	—	—						38	34					
			100,110,120,125	212	167	—	—						48	20					
WGZ9	28000	2000	65,70,71,75	142	107	—	400	315	265	190	140	30	29	—	—	3	106.5	1.05	1.30
			80,85,90,95	172	132	—	—						—	—					
			100,110,120,125	212	167	—	—						43	28					
			130,140	252	202	—	—						48	—					
WGZ10	45000	2000	75	142	—	—	400	355	300	225	165	30	28	—	—	3	159	1.74	1.60
			80,85,90,95	172	132	—	—						—	—					
			100,110,120,125	212	167	—	—						43	38					
			130,140,150	252	202	—	—						53	28					
WGZ11	63000	1700	160	302	242	—	500	412	345	256	180	40	15	—	—	4	215	3.67	2.0
			85,90,95	172	—	—	—						—	—					
			100,110,120,125	212	167	—	—						51	45					
			130,140,150	252	202	—	—						56	—					
WGZ12	90000	1700	160,170,180	302	242	—	630	440	375	288	207	40	8	—	—	4	303	6.40	3.40
			120,125	212	167	—	—						—	—					
			130,140,150	252	202	—	—						56	32					
			190,200	352	282	—	—						66	—					
WGZ13	125000	1700	140,150	252	202	—	630	490	425	320	235	50	8	—	—	4	391	10.45	4.40
			160,170,180	302	242	—	—						—	—					
			190,200,220	352	282	—	—						56	38					
			76	—	—	—	—						66	32					
WGZ14	180000	1500	160,170,180	302	242	—	710	545	462	362	265	50	10	—	—	4	523	17.48	6.60
			190,200,220	352	282	—	—						—	—					
			240,250,260	410	330	—	—						68	32					
			78	—	—	—	—						78	10					

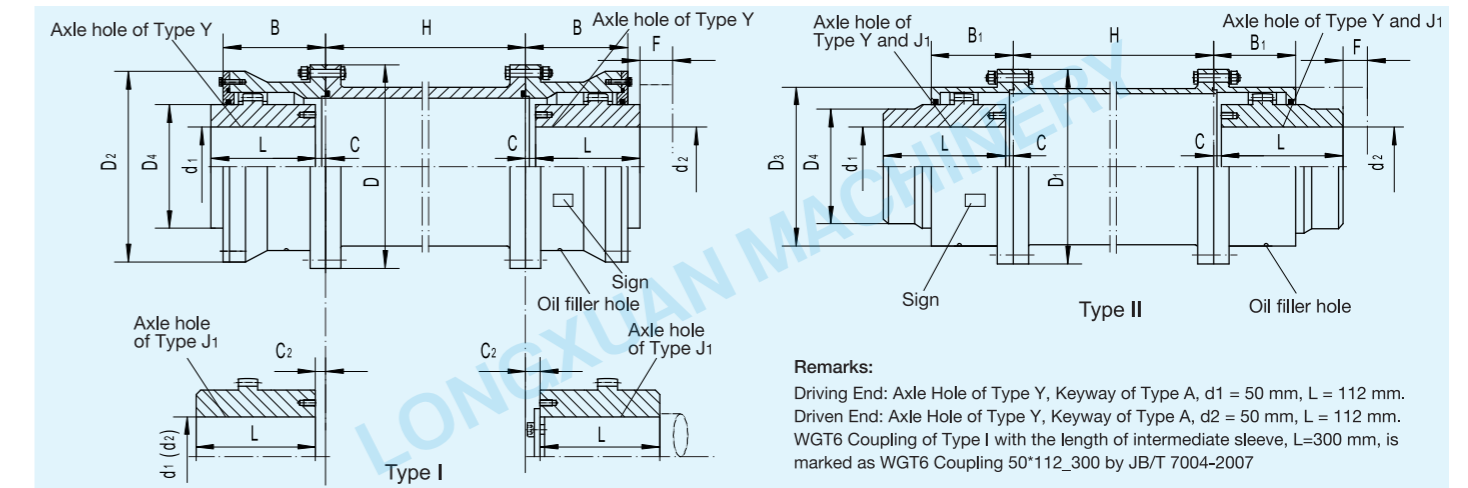
Remarks: 1. The weight and the rotational inertia are the approximate values according to the maximum Axle hole diameter, regardless of the braking disc. The braking disc weight and the rotational inertia are seen in Figure 2.
2. The maximum value of conical axle is 220 mm.
3. The diameters of different braking discs, i.e. C, C₁ and C₂, are the ones in the Figure superadd K/2, the value of K is shown in Figure 2.

Main size, weight and rotational inertia of braking disc.

Figure 2

Diameter D ₀ mm	T mm	K mm	Weight Kg	Rotational inertia kg·m ²	Diameter D ₀ mm	T mm	K mm	Weight Kg	Rotational inertia kg·m ²
160	70	6	2.83	0.014	500	210	18	56.3	3.07
200	85	8	5.20	0.043	630	265	22	101.3	8.55
250	105	10	10.1	0.128	710	300	22	145.8	15.52
315	135	12	17.2	0.354	800	340	26	203.0	26.76
400	170	14	33.4	1.11					

Drum tooth-type coupling with intermediate sleeve of Type WGT applies to the transmission device with two horizontal coaxial lines which are far apart. It's a drum tooth-type coupling with a certain angle compensates for relative offset of the two axis. The temperature of its working condition is from -20 °C to 100 °C. The nominal transmission torque is from 800 to 1, 400, 000 Kn·m. It has the advantages of high stiffness, light weight and easily-maintaining.



Remarks:
Driving End: Axle Hole of Type Y, Keyway of Type A, d₁ = 50 mm, L = 112 mm.
Driven End: Axle Hole of Type Y, Keyway of Type A, d₂ = 50 mm, L = 112 mm.
WGT6 Coupling of Type I with the length of intermediate sleeve, L=300 mm, is marked as WGT6 Coupling 50*112_300 by JB/T 7004-2007

The basic parameters and the main dimensions of Drum tooth-type coupling with intermediate sleeve of Type WGT by JB/T 7004-2007 Figure 1

Model	Nominal torque T _n N·m	Axle hole diameter d ₁ , d ₂ mm		Axle hole length L mm		D mm	D ₁ mm	D ₂ mm	D ₃ mm	D ₄ mm	B mm	B ₁ mm	F mm	H _{min} mm	C mm		C ₂ mm	Weight Kg When H is minimum		Rotational Inertia Kg·m ² When H is minimum		Total consumption of grease Kg		
		Y	J ₁	I	II										I	II		I	II	I	II			
WGT1	800	12,14	32	—	—	122	115	98	88	60	58	50	30	75	30	—	3	18	7.24	6.33	0.0112	0.0091	0.085	0.04
		16,18,19	42	—	—										20	14								
		20,22,24	52	—	—										10	4								
		25,28	62	44	—										—	—								
		30,32,35,38	82	60	—										—	—								
WGT2	1400	22,24	52	—	—	150	145	118	108	77	68	52	30	80	20	4	3	16	12.46	9.88	0.0292	0.0239	0.09	0.06
		25,28	62	—	—										10	—								
		30,32,35,38	82	60	—										3	3								
		40,42,45,48,50,55,56	112	84	—										—	—								
		112	84	—	—										—	—								
WGT3	2800	22,24	52	—	—	170	165	140	125	90	80	54	30	80	33	7	3	25	20.2	15.3	0.062	0.0466	0.17	0.10
		25,28	62	—	—										—	—								
		30,32,35,38	82	60	—										3	3								
		40,42,45,48,50,55,56	112	84	—										—	—								
		60,63	142	107	—										—	—								
WGT4	5000	30,32,35,38	82	—	—	200	195	160	145	112	90	58	30	100	13	—	3	17	30.8	24.8	0.13	0.104	0.25	0.15
		40,42,45,48,50,55,56	112	84	—										—	—								
		60,63,65,70,71,75	142	107	—										—	—								
		80	172	132	—										—	—								
		80	172	132	—										—	—								
WGT5	8000	30,32,35,38	82	—	—	225	215	180	168	128	100	63	30	100	23	—	3	19	41.0	31.9	0.223	0.168	0.35	0.22
		40,42,45,48,50,55,56	112	84	—										—	—								
		60,63,65,70,71,75	142	107	—										—	—								
		80,85,90	172	132	—										—	—								
		80,85,90	172	132	—										—	—								
WGT6	11200	32,35,38	82	—	—	245	230	200	185	145	112	67	30	100	35	—	5	20	58.2	44.1	0.356	0.266	0.40	0.29
		40,42,45,48,50,55,56	112	—	—										—	—								
		60,63,65,70,71,75	142	107	—										—	—								
		80,85,90,95	172	132	—										—	—								
		100	212	167	—										—	—								
WGT7	16000	32,35,38	82	—	—	272	265	230	210	160	122	74	30	120	45	—	5	20	79.1	53.6	0.664	0.455	0.60	0.44
		40,42,45,48,50,55,56	112	—	—										—	—								
		60,63,65,70,71,75	142	107	—										—	—								
		80,85,90,95	172	132	—										—	—								
		100,110	212	167	—										—	—								
WGT8	22400	55,56	112	—	—	290	272	245	225	176	136	81	30	120	29	—	5	34	91.0	64.8	0.874	0.577	0.75	0.55
		60,63,65,70,71,75	142	107	—										—	—								
		80,85,90,95	172	132	—										—	—								
		100,110,120,125	212	167	—										—	—								
		100,110,120,125	212	167	—										—	—								
WGT9	28000	65,70,71,75	142	107	—	315	305	265	245	190	140	88	30	155	38	—	5	28	122.2	94.3	1.30	0.979	1.0	0.79
		80,85,90,95	172	132	—										—	—								

Model	Nominal torque T _n N·m	Axle hole diameter d ₁ , d ₂ mm		Axle hole length L mm		D mm	D ₁ mm	D ₂ mm	D ₃ mm	D ₄ mm	B mm	B ₁ mm	F mm	H _{min} mm	C mm		C ₂ mm	Wight Kg When H is minimum		Rotational Inertia Kg·m ² When H is minimum		Total consumption of grease Kg	
		Y	J ₁	I	II										I	II		I	II	I	II		
WGT11	63000	85,90,95		172		412	385	345	325	256	180	112	40	175	8	8	32	245.1	190.8	4.53	3.35	1.6	1.23
		100,110,120,125		212 167																			
		130,140,150		252 202																			
		160,170,180		302 242																			
WGT12	90000	120,125		212 167		440	435	375	360	288	210	125	40	205	8	8	32	342.6	276.1	7.69	5.65	2.6	1.90
		130,140,150		252 202																			
		160,170,180		302 242																			
		190,200		352 282																			
WGT13	125000	140,150		252 202		490	180	425	400	320	235	136	50	205	8	8	32	440.9	352.9	12.52	9.46	3.3	2.4
		160,170,180		302 242																			
		190,200,220		352 282																			
WGT14	180000	160,170,180		302 242		545	540	462	440	362	265	158	50	240	10	10	32	595.9	482.7	21.21	16.4	4.8	3.7
		190,200,220		352 282																			
		240,250,260		410 330																			
WGT15	250000	160,170,180		302 242		580	—	488	—	400	280	—	50	240	10	—	32	757.9	—	29.67	—	5	—
		190,200,220		352 282																			
		240,250,260		410 330																			
		280		470 380																			
WGT16	315000	180		302 242		650	—	560	—	440	300	—	50	240	12	—	32	1043.3	—	50.58	—	7	—
		190,200,220		352 282																			
		240,250,260		410 330																			
WGT17	400000	280,300		470 380		690	—	600	—	460	325	—	50	280	12	—	48	1191.4	—	68.15	—	8	—
		200,220		352 282																			
		240,250,260		410 330																			
WGT18	500000	280,300,320		470 380		750	—	650	—	510	350	—	60	280	12	—	73	1557.9	—	74.99	—	10	—
		220		352 282																			
		240,250,260		410 330																			
WGT19	630000	280,300,320		470 380		775	—	690	—	535	372	—	60	350	12	—	45	1726.4	—	129.5	—	11	—
		340,360,380		550 450																			
		260		410 330																			
WGT20	800000	280,300,320		470 380		825	—	730	—	580	392.5	—	60	350	14	—	65	2302.1	—	190.8	—	13	—
		340,360,380		550 450																			
		400		650 540																			
WGT21	900000	280,300,320		470 380		925	—	825	—	620	405	—	60	350	14	—	30	2743.6	—	280.8	—	20	—
		340,360,380		550 450																			
		400,420,440		650 540																			
WGT22	1000000	320		470 380		950	—	850	—	665	410	—	60	400	14	—	35	3101.6	—	346.9	—	26	—
		340,360,380		550 450																			
		400,420,440,450,460		650 540																			
WGT23	1120000	360,380		550 450		1030	—	900	—	710	440	—	60	400	14	—	14	3574.6	—	459.7	—	29	—
		400,420,440,450,460,480,500		650 540																			
		380		550 450																			
WGT24	1400000	400,420,440,450,460,480,500		650 540		1060	—	925	—	730	450	—	70	400	16	—	16	4213	—	560	—	32	—
		520		800 680																			

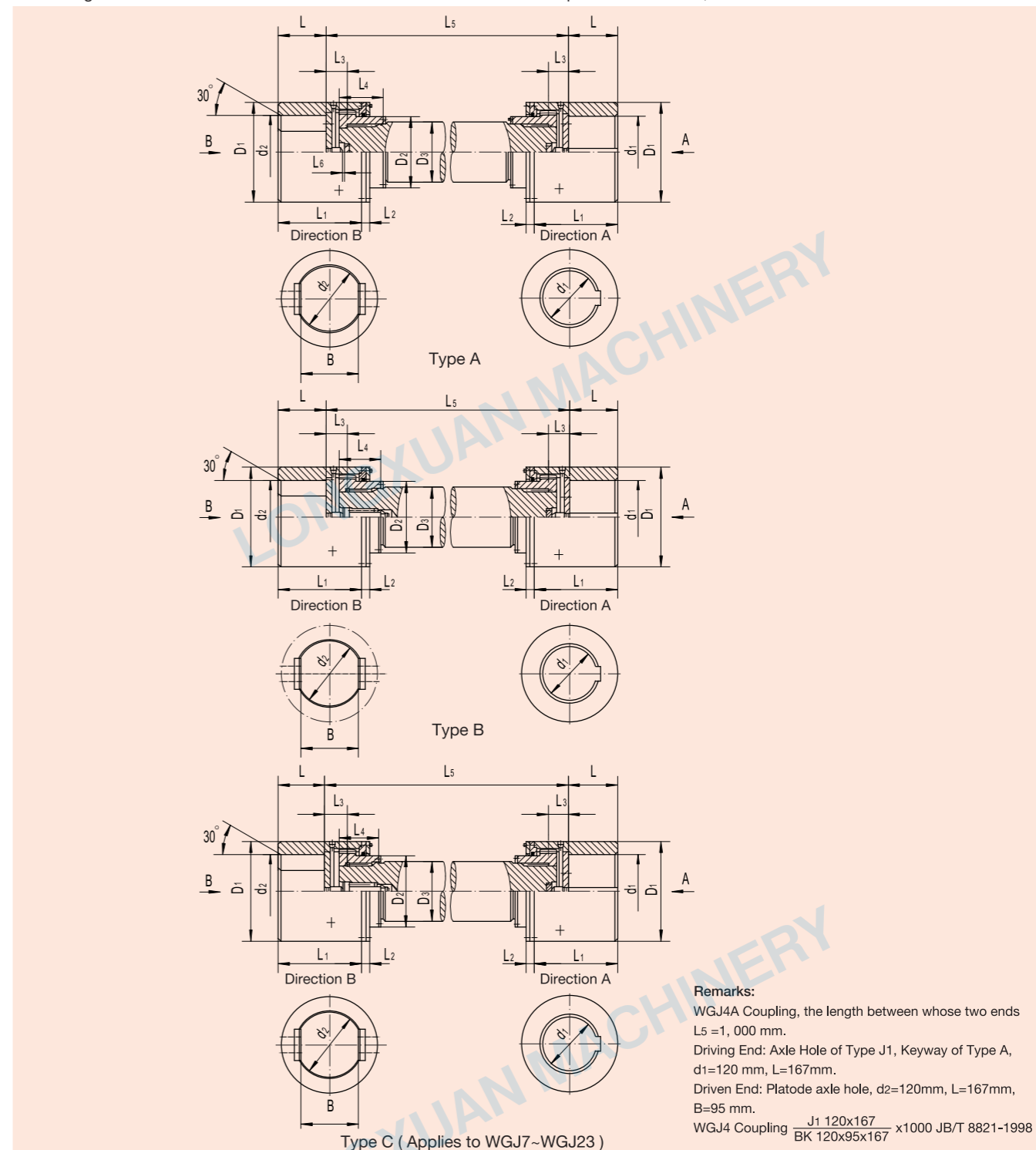
Remarks: The weight and Rotational Inertia are the approximate values calculated by the Type Y of the maximum axle hole, and the length of intermediate sleeve H is minimum.

Allowable speed, extended weight of the intermediate sleeve, Rotational Inertia and the inertia moment. Figure 2

Model	Allowable speed [n] r/min	Weight per 10 mm extending to the intermediate sleeve Kg		Rotational inertia per 10 mm extending to the intermediate sleeve Kg·m ²		Inertia moment of the intermediate sleeve mm ⁴	
		I	II	I	II	I	II
WGT1	7500	0.088	0.08	0.00011	0.000088	7.1×10 ⁹	5.4×10 ⁹
WGT2	6700	0.13	0.125	0.00022	0.00021	1.4×10 ¹⁰	1.4×10 ¹⁰
WGT3	6300	0.16	0.16	0.00041	0.00038	2.7×10 ¹⁰	2.7×10 ¹⁰
WGT4	5600	0.20	0.19	0.0008	0.00071	5.2×10 ¹⁰	4.5×10 ¹⁰
WGT5	5300	0.23	0.22	0.0012	0.0010	7.9×10 ¹⁰	6.9×10 ¹⁰
WGT6	5000	0.26	0.24	0.0017	0.0013	1.1×10 ¹¹	9.1×10 ¹⁰
WGT7	4500	0.32	0.30	0.0030	0.0027	1.9×10 ¹¹	1.7×10 ¹¹
WGT8	4250	0.32	0.30	0.0030	0.0027	2.8×10 ¹¹	2.8×10 ¹¹
WGT9	4000	0.42	0.40	0.0045	0.0043	3.6×10 ¹¹	3.6×10 ¹¹
WGT10	3550	0.46	0.45	0.0064	0.006	5.1×10 ¹¹	5.1×10 ¹¹
WGT11	3000	0.52	0.50	0.0091	0.009	1.1×10 ¹²	9.5×10 ¹¹
WGT12	2800	0.71	0.70	0.015	0.014	1.4×10 ¹²	1.2×10 ¹²
WGT13	2500	0.83	0.80	0.024	0.023	2.3×10 ¹²	1.9×10 ¹²
WGT14	2300	0.96	0.95	0.037	0.035	2.8×10 ¹²	2.8×10 ¹²
WGT15	2100	1.03	—	0.044	—	3.3×10 ¹²	—
WGT16	1900	1.50	—	0.072	—	5.6×10 ¹²	—
WGT17	1800	2.50	—	0.16	—	1.0×10 ¹³	—
WGT18	1700	2.76	—	0.22	—	1.5×10 ¹³	—
WGT19	1600	2.96	—	0.27	—	1.9×10 ¹³	—
WGT20	1500	3.16	—	0.32	—	2.2×10 ¹³	—
WGT21	1300	4.20	—	0.50	—	3.2×10 ¹³	—
WGT22	950	4.47	—	0.59	—	3.7×10 ¹³	—
WGT23	900	5.77	—	0.88	—	5.6×10 ¹³	—
WGT24	850	6.07	—	1.02	—	6.5×10 ¹³	—

Remarks: The allowable speed in this Figure is the one when the length of intermediate sleeve H is minimum. The actual allowable speed n depends on the length and weight of the intermediate sleeve, and the critical speed should be tested. Details are shown in JB/ZQ4381

- Drum tooth-type(universal) coupling with intermediate axes of Type WGJ applies to the transmission device whose two axial lines are misaligned and far apart. When loading, the angular displacement is 3°, while unloading the angular displacement is 5°. The temperature of its working condition is from -20 °C to 100 °C. The nominal transmission torque is from 6.3 to 3, 150 KN·m.



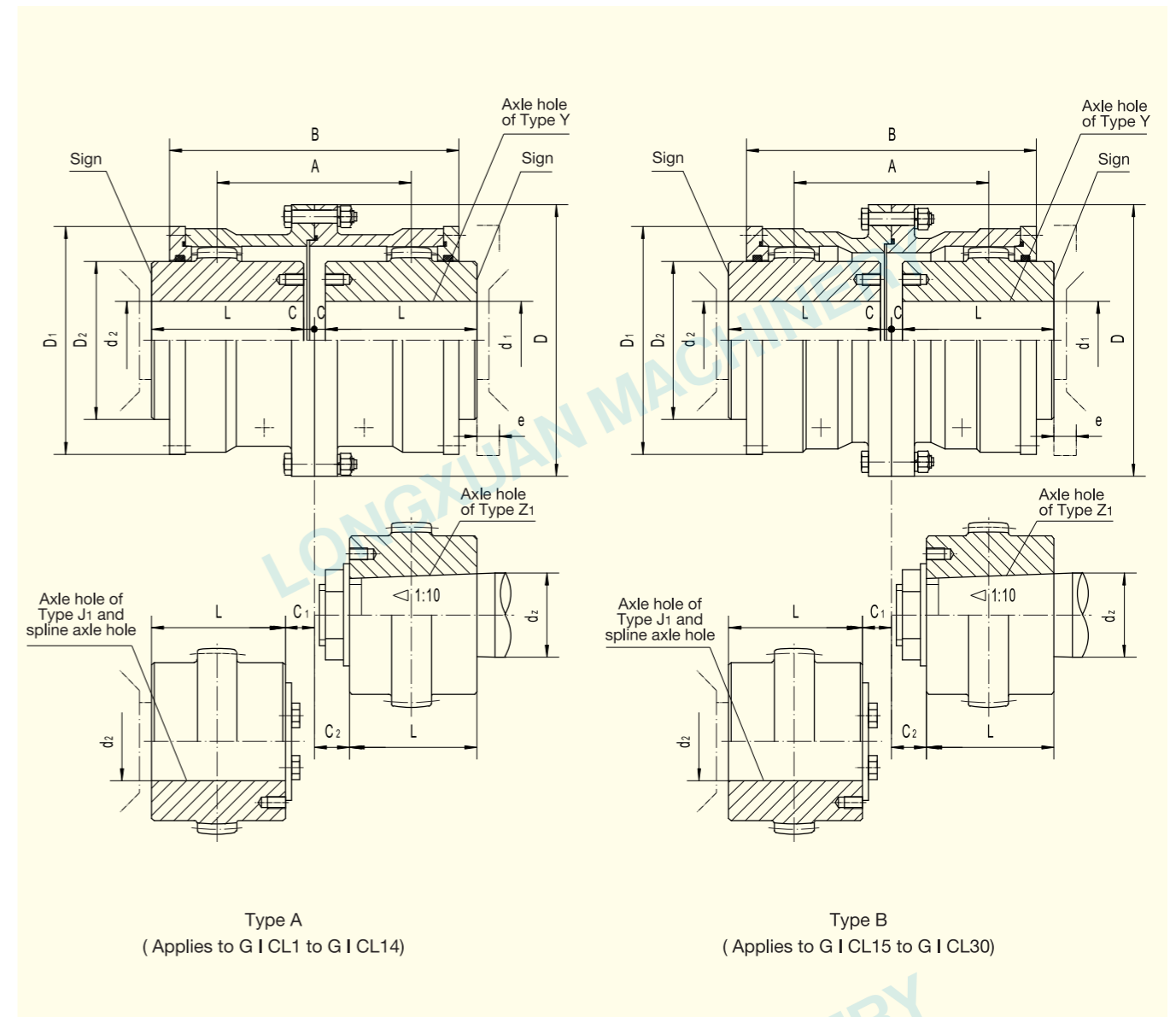
The basic parameters and the main dimensions of Drum tooth-type coupling with intermediate axes of Type WGJ by JB/T8821-1998

Model	Nominal torque T _n Kn·m	Size of cylindrical axle hole		Size of platode axle hole			D ₁ mm	D ₂ mm	D ₃ mm	L ₁ mm	L ₂ mm	L ₃ mm	L ₄ mm	L ₅ mm	L ₆ mm	C mm	Weight Kg		Rotational Inertia Kg·m ²		Consumption of grease mL	
		d ₁ , d ₂ mm	L mm	d ₂ mm	L mm	B mm											When L ₅ is minimum	Per meter increases	When L ₅ is minimum	Per meter increases		
WGJ1	6.3	60,63		107	80	132	60	130	85	70	170	30	35	90	500	3	8	46	30.2	0.05	0.018	150
		65,70																				
		71,75																				
		80		132							195											

Model	Nominal torque T _n Kn·m	Size of cylindrical axle hole			Size of platode axle hole			D ₁ mm	D ₂ mm	D ₃ mm	L ₁ mm	L ₂ mm	L ₃ mm	L ₄ mm	L ₅ min mm	L ₆ mm	C max mm	Weight Kg		Rotational Inertia Kg·m ²		Consumption of grease mL
		d ₁ , d ₂ mm	L mm	d ₂ max mm	L max mm	B max mm	When L ₅ is minimum											Per meter increases	When L ₅ is minimum	Per meter increases		
WGJ2	11.2	70, 71, 75	107	100	167	75	160	110	90		175	30	40	110	500	3	10	76	49.9	0.28	0.05	250
		80, 85	132								200											
		90, 95	167								235											
		100																				
WGJ3	18	80, 85	132	110	167	85	180	120	100		210	32	46	120	600	3	11	105	61.65	0.43	0.07	350
		90, 95	167								245											
		100, 110																				
WGJ4	25	80, 85	132	125	167	95	200	140	110		220	32	50	140	600	3	12	140	74.6	0.73	0.158	450
		90, 95	167								253											
		100, 110																				
		120, 125																				
WGJ5	31.5	90, 95	132	140	202	105	230	160	130		225	38	54	160	600	5	14	200	104	1.43	0.22	650
		100, 110	167								260											
		120, 125	202								295											
		130, 140									287											
WGJ6	50	110, 120	167	160	242	120	260	180	140		322	38	82	180	800	5	16	280	121	2.56	0.296	900
		130	202								362											
		140, 150	242								336											
		160	202																			
WGJ7	63	140, 150	202	190	282	140	280	200	160		376	38	85	200	800	5	19	380	158	4.26	0.501	1400
		160	242								416											
		170, 180	282																			
WGJ8	80	160, 170	242	200	282	160	300	220	180		392	44	95	220	1000	5	20	480	200	6.02	0.81	1800
		180	282								432											
		190, 200	242								392											
WGJ9	100	170, 180	242	220	282	170	330	230	200		432	44	95	230	1000	5	22	550	247	7.95	1.24	2100
		190, 200	282																			
WGJ10	125	220	282	240	330	180	355	250	220		442	51	98	250	1000	5	24	720	298	12.7	1.8	2500
		240	330								490											
		260																				
WGJ11	200	190, 200	282	260	330	200	410	290	240		457	51	106	280	1200	5	26	1110	355	25.95	2.56	3000
		220	330								505											
		240, 250	330																			
WGJ12	315	240, 250	330	300	380	220	460	320	260		518	57	112	300	1200	6	30	1480	417	43.43	3.52	4000
		260	380								568											
		280, 300	380																			
WGJ13	450	280, 300	380	340	450	250	510	360	300		596	57	136	340	1400	6	34	2020	555	71.76	6.24	5200
		320	450								666											
		340	450																			
WGJ14	560	300, 320	380	360	450	280	560	400	320		628	64	145	380	1500	6	36	2600	631	114.4	8.1	6500
		340, 360	450								698											
		340, 360	450																			
WGJ15	710	380	450	400	540	300	610	430	350		716	64	160	400	1500	6	40	3300	755	178	11.6	8000
		400	540								806											
		360, 380	550								842											
WGJ16	900	400, 420	650	420	650	320	660	460	380		842	64	172	440	1600	10	42	4300	890	272	16	10000
		400, 420	650								942											
WGJ17	1120	440, 450	650	460	650	350	710	500	420		964	64	182	480	1800	10	46	5500	1090	392	24	12000
		460																				
WGJ18	1250	420, 440	650	500	650	380	760	540	460		990	76	195	520	2000	10	50	6700	1310	553	35	15000
		450, 460																				
		480, 500																				
WGJ19	1600	440, 450	650	530	800	400	810	580	500		1005	76	215	540	2000	10	53	8350	1540	805	48	16500
		460, 480	800								1155											
		500																				
WGJ20	2000	450, 460	650	560	800	420	860	600	530		1031	76	225	560	2000	10	56	9500	1730	1024	61	18500
		530, 560	800								1181											
		480, 500	650								1056											
WGJ21	2240	530, 560	800	600	800	450	910	650	560		1206	76	236	600	2500	10	60	11500	1930	1334	75.66	21000
		600																				
WGJ22	2800	530, 560	800	630	800	480	965	680	600		1230	82	246	640	2500	13	63	12600	2220	1621	99.9	24000
		600, 630																				
WGJ23	3150	560, 600	800	670	900	500	1000	710	630		1250	82	265	680	2500	13	67	17900	2450	2579	122	27000
		630									1350											
		670	900																			

Remarks: 1. The weight and Rotational Inertia are the approximate values calculated according to the cylinder with the maximum axle hole, and the length of intermediate axle L₅ is minimum. 2. The models of the coupling are that the driving end is cylindrical, and the driven end is platode. And both ends can be cylindrical if needed. 3. The axial extension of Type Y of Model 1 to Model 15 can be chosen by GB/T3852. 4. C max is calculated as 1/10 of the platode axle hole, i.e. C = 0.1 d₂, and is round off. 5. For platode axle hole, the ultimate tolerance of d₂ and B is H9.

- Drum tooth-type coupling of Type GICL applies to the transmission device with two horizontal coaxial lines. It's a drum tooth-type coupling with a certain angle compensates for relative offset of the two axis. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 800 to 3, 200, 000 N·m.



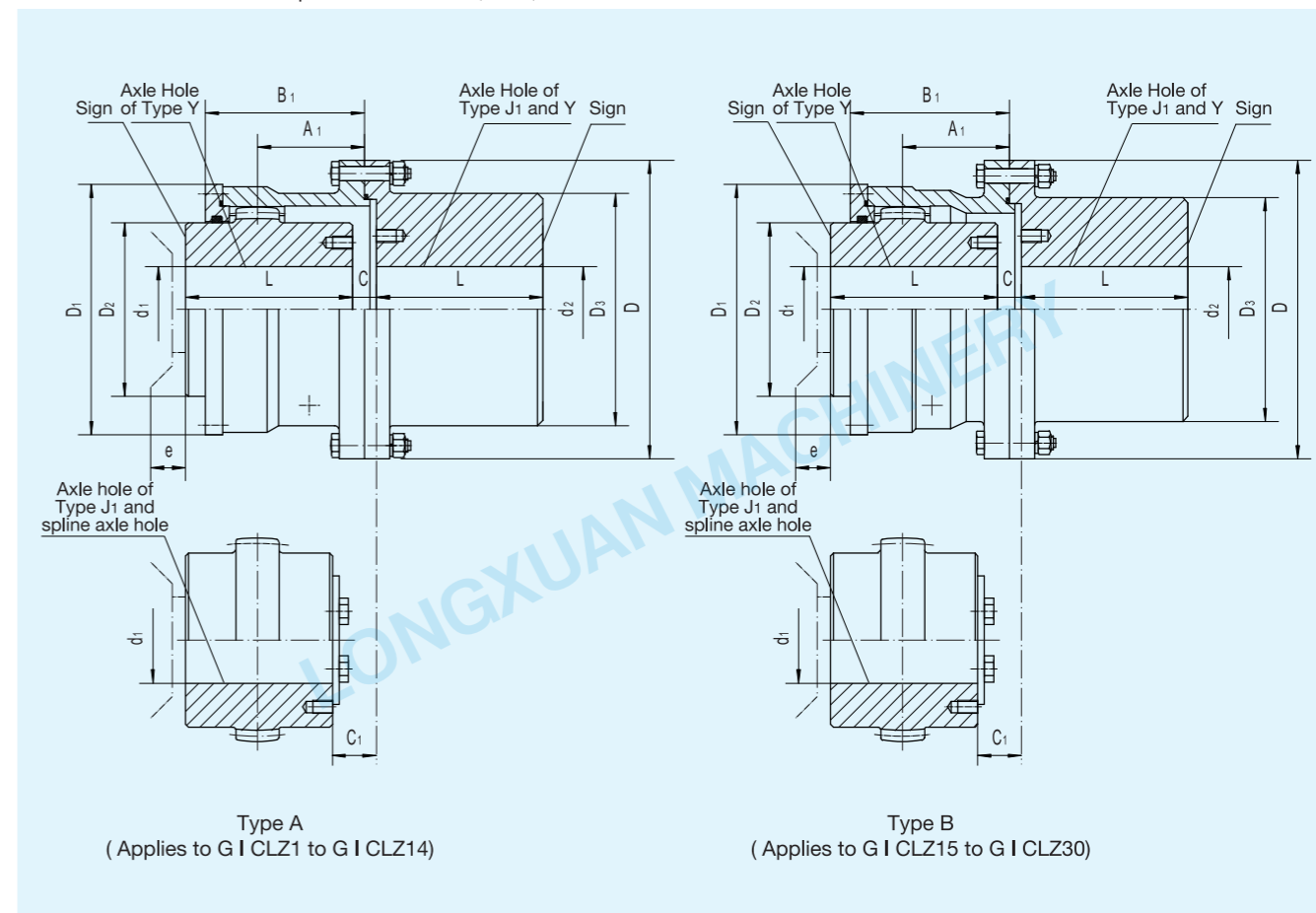
- The basic parameters and the main dimensions of Drum tooth-type coupling of Type G I CL by JB/T8854.3-2001

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length L		D	D ₁	D ₂	B	A	C	C ₁	C ₂	e	Rotational Inertia Kg·m ²	Consumption of grease mL	Weight Kg			
			d ₁ , d ₂ , d ₃	Y	J ₁ , Z ₁																
G I CL1	800	7100	16, 18, 19	42	—	125	95	60	115	75	20	—	—	—	30	0.009	55	5.9			
			20, 22, 24	52	38														10	—	24
			25, 28	62	44														2.5	—	19
			30, 32, 35, 38	82	60														2.5	15	22
G I CL2	1400	6300	25, 28	62	44	145	120	75	135	88	10.5	—	29	30	0.02	100	9.7				
			30, 32, 35, 38	82	60													2.5	12.5	30	
			40, 42, 45, 48	112	84													2.5	13.5	28	
G I CL3	2800	5900	30, 32, 35, 38	82	60	170	140	95	155	106	3	24.5	25	30	0.047	140	17.2				
			40, 42, 45, 48, 50, 55, 56	112	84													17	28		
			60	142	107													17	35		

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter			Axle hole length L		D	D ₁	D ₂	B	A	C	C ₁	C ₂	e	Rotational Inertia Kg·m ²	Consumption of grease mL	Weight Kg			
			d ₁ , d ₂ , d _z	Y	J ₁ , Z ₁	mm																
G I CL4	5000	5400	32,35,38	82	60	195	165	115	178	125	14	37	32	14	37	32	0.091	170	24.9			
			40,42,45,48,50,55,56	112	84															3	17	28
			60,63,65,70	142	107																	35
G I CL5	8000	5000	40,42,45,48,50,55,56	112	84	225	183	130	198	142	3	25	28	20	35	30	0.167	270	38			
			60,63,65,70,71,75	142	107															22	43	
			80	172	132																	
G I CL6	11200	4800	48,50,55,56	112	84	240	200	145	218	160	6	35	35	4	22	43	0.267	380	48.2			
			60,63,65,70,71,75	142	107															25	35	
			80,85,90	172	132																	
G I CL7	15000	4500	60,63,65,70,71,75	142	107	260	230	160	244	180	4	25	35	22	43	30	0.453	570	68.9			
			80,85,90,95	172	132															43	48	
			100	212	167																	
G I CL8	21200	4000	65,70,71,75	142	107	280	245	175	264	193	5	35	35	22	43	30	0.646	660	83.3			
			80,85,90,95	172	132															43	48	
			100,110	212	167																	
G I CL9	26500	3500	70,71,75	142	107	315	270	200	284	208	10	45	45	5	22	43	1.036	700	110			
			80,85,90,95	172	132															43	49	
			100,110,120,125	212	167																	
G I CL10	42500	3200	80,85,90,95	172	132	345	300	220	330	249	5	43	43	22	49	30	1.88	900	156.7			
			100,110,120,125	212	167															22	49	
			130,140	252	202															29	54	
G I CL11	60000	3000	100,110,120	212	167	380	330	260	360	267	6	29	54	29	54	40	3.28	1200	217.1			
			130,140,150	252	202															57	57	
			160	302	242																	
G I CL12	80000	2600	120,	212	167	440	380	290	416	313	6	29	55	29	55	40	5.08	2000	305.1			
			130,140,150	252	202															68		
			160,170,180	302	242																	
G I CL13	112000	2300	140,150	252	202	480	420	320	476	364	7	54	57	32	70	40	10.06	3000	419.4			
			160,170,180	302	242															80		
			190,200	352	282																	
G I CL14	160000	2100	160,170,180	302	242	520	465	360	532	415	8	42	70	32	80	40	16.774	4500	593.9			
			190,200,220	352	282															38		
			240,250	410	330																	
G I CL15	224000	1900	190,200,220	352	282	580	510	400	556	429	10	38	—	38	—	40	26.55	5000	783.3			
			240,250	410	330															58	80	
			200,220	352	282																	
G I CL16	355000	1600	240,250,260	410	330	680	595	465	640	501	10	38	—	38	—	50	52.22	8000	1134.4			
			280	470	380																	
			220	352	282																	
G I CL17	400000	1500	240,250,260	410	330	720	645	495	672	512	10	39	—	39	—	50	69	10000	1305			
			280,300	470	380																	
			240,250,260	410	330																	
G I CL18	500000	1400	280,300,320	470	380	775	675	520	702	524	10	46	41	—	46	50	96.16	11000	1626			
			260	410	330																	
			280,300,320	470	380																	
G I CL19	630000	1300	280,300,320	470	380	815	715	560	744	560	10	41	—	41	—	50	115.6	13000	1773			
			340	550	450																	
			280,300,320	470	380																	
G I CL20	710000	1200	340,360	550	450	855	755	585	786	595	13	44	—	44	—	50	167.41	16000	2263			
			300,320	470	380																	
			340,360,380	550	450																	
G I CL21	900000	1100	340,360,380	550	450	915	795	620	808	611	13	59	44	—	59	50	215.7	20000	2593			
			400	650	540																	
			340,360,380	550	450																	
G I CL22	950000	950	400	650	540	960	840	665	830	632	13	44	—	44	—	60	278.07	26000	3036			
			360,380	550	450																	
			400,420	650	540																	
G I CL23	1120000	900	360,380	550	450	1010	890	710	870	666	13	44	—	44	—	60	379.4	29000	3668			
			400,420	650	540																	
			380	550	450																	
G I CL24	1250000	875	400,420,450	650	540	1050	925	730	890	685	15	46	50	—	46	60	448.1	32000	3946			
			480,500	650	540																	
			530,560	800	680																	
G I CL25	1400000	850	400,420,450,480	650	540	1120	970	770	930	724	15	50	—	50	—	60	564.64	34000	4443			
			420,450,480,500	650	540																	
			450,480,500	650	540																	
G I CL26	1600000	825	450,480,500	650	540	1160	990	800	950	733	15	50	—	50	—	60	637.4	37000	4791			
			530	800	680																	
			480,500	650	540																	
G I CL27	1800000	800	530	800	680	1210	1060	850	958	739	15	50	—	50	—	70	866.26	45000	5758			
			480,500	650	540																	
			530,560	800	680																	
G I CL28	2000000	770	480,500	650	540	1250	1080	890	1034	805	20	55	—	55	—	70	1020.76	47000	6232			
			530,560	800	680																	
			500	650	540																	
G I CL29	2800000	725	530,560,600	800	680	1340	1200	960	1034	792	20	57	55	—	57	80	1450.84	50000	7549			
			500	650	540																	
			530,560,600	800	680																	
G I CL30	3200000	700	560,600,630	800	680	1390	1240	1005	1050	806	20	55	—	55	—	80	1974.17	59000	9541			
			560,600,630	800	680																	
			560,600,630	800	680																	

Remarks: 1. The weight and rotational inertia are the approximate value calculated by the maximal length of the minimum Axle hole diameter in each type.
 2. When D₂ ≥ 465 mm, the O ring is made by bonding the rubber bands with circular section.
 3. Axle hole of Type J1 can also omit the axle end ring if needed.
 4. The maximum diameter of d_z is 200 mm.
 5. If the tooth surface is azotized or surface-hardened, the relevant nominal torque should be calculated as 1.3 times of the corresponding value in the Figure.

- Drum tooth-type coupling of Type GICLZ applies to the transmission device with two far-apart horizontal coaxial lines. It's a drum tooth-type coupling with a certain angle compensates for relative offset of the two axis. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 800 to 3, 200 ,000 N·m.



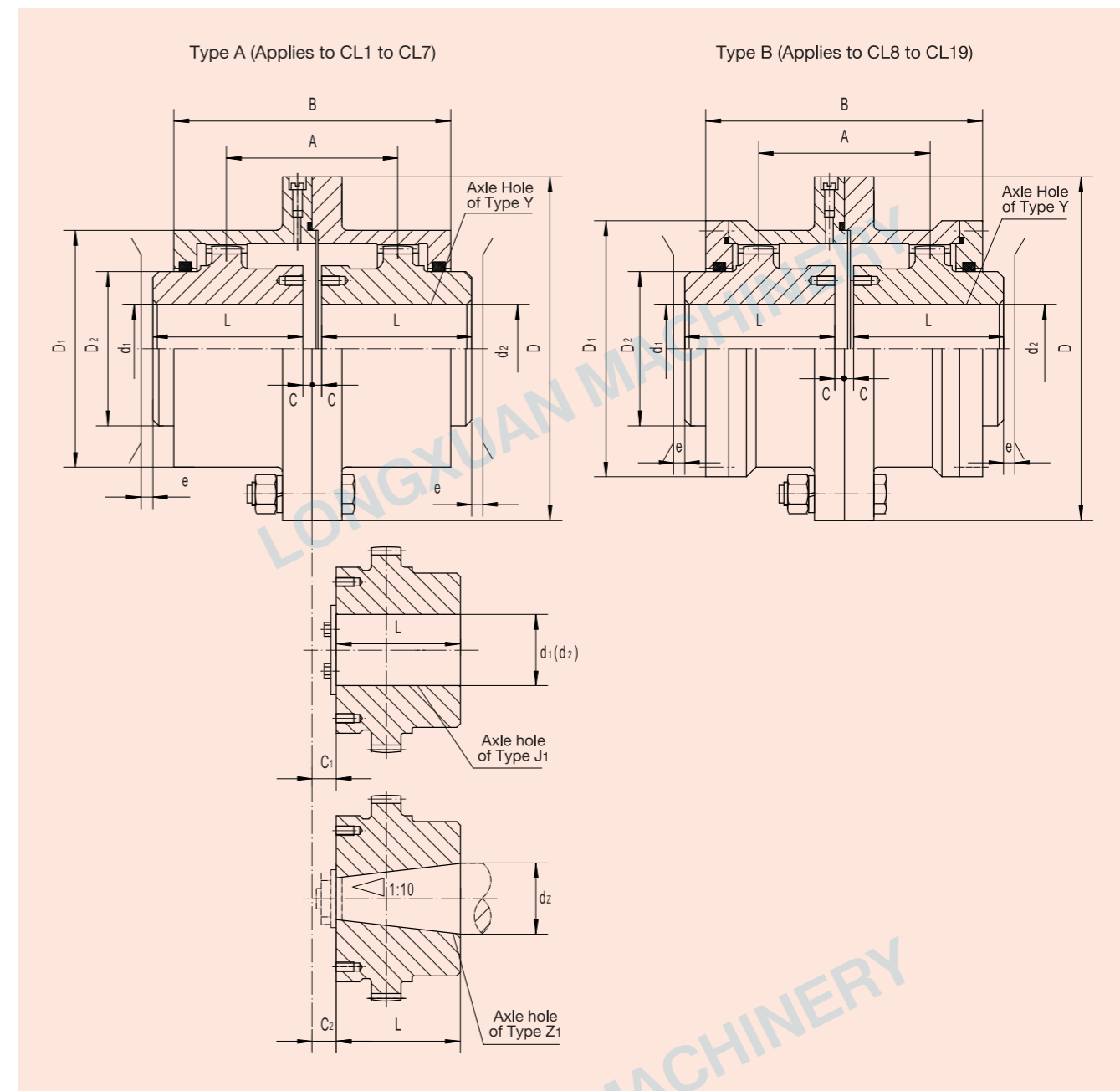
- The basic parameters and the main dimensions of Drum tooth-type coupling of Type G I CLZ by JB/T8854.3-2001

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter			Axle hole length L		D	D ₁	D ₂	D ₃	B ₁	A ₁	C	C ₁	e	Rotational Inertia Kg·m ²	Consumption of grease mL	Weight Kg	
			d ₁ , d ₂	Y	J ₁	mm														
G I CLZ1	800	7100	16,18,19	42	—	125	95	60	80	57	37	24	14	—	30	0.0084	30	5.4		
			20,22,24	52	38														6.5	
			25,28	62	44														19	
G I CLZ2	1400	6300	30,32,35,38	82	60	145	120	75	95	67	44	16	—	18	30	0.018	60	9.2		
			40,42,45,48	112	84														8	19
			50*,55*,56*	142	107															
G I CLZ3	2800	5900	30,32,35,38	82	60	170	140	95	115	77	53	7	29	22	30	0.0427	80	16.4		
			40,42,45,48,50,55,56	112	84														19	42
			60,63*,65*,70*	142	107															
G I CLZ4	5000	5400	32,35,38	82	60	195	165	115	130	89	62	19	42	—	30	0.076	90	22.7		
			40,42,45,48,50,55,56	112	84														8.5	22
			60,63,65,70,71*,75*	142	107															
G I CLZ5	8000	5000	80*	172	132	225	183	130	150	99	71									

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length L		D	D ₁	D ₂	D ₃	B ₁	A ₁	C	C ₁	e	Rotational Inertia Kg·m ²	Consumption of grease mL	Weight Kg
			d ₁ , d ₂	Y	J ₁													
mm																		
G I CLZ7	15000	4500	60,63,65,70,71,75	142	107	260	230	160	195	122	90	10.5	31	28	30	0.43	290	68.4
			80,85,90,95	172	132													
			100,110*,120*	212	167													
G I CLZ8	21200	4000	65,70,71,75	142	107	280	245	175	210	132	96	12	41	28	30	0.61	350	81.1
			80,85,90,95	172	132													
			100,110,120*	212	167													
			130*	252	202													
G I CLZ9	26500	3500	70,71,75	142	107	315	270	200	225	142	104	13	18	53	30	0.94	370	100.1
			80,85,90,95	172	132													
			100,110,120,125	212	167													
			130*,140*	252	202													
G I CLZ10	42500	3200	80,85,90,95	172	132	345	300	220	250	165	124	14	51	30	30	1.67	500	147.1
			100,110,120,125	212	167													
			130,140,150*	252	202													
			160*	302	242													
G I CLZ11	60000	3000	100,110,120	212	167	380	330	260	285	180	133	14	65	37	40	2.98	650	206.3
			130,140,150	252	202													
			160,170*,180*	302	242													
			120	212	167													
G I CLZ12	80000	2600	130,140,150	252	202	440	380	290	325	208	156	14	65	37	40	5.31	1100	284.5
			160,170,180	302	242													
			190*,200*	352	282													
			140,150	252	202													
G I CLZ13	112000	2300	160,170,180	302	242	480	420	320	360	238	182	15	62	40	40	9.16	1600	402
			190,200,220*	352	282													
			160,170,180	302	242													
			240*,250*	410	330													
G I CLZ14	160000	2100	190,200,220	352	282	520	465	360	410	266	207	16	50	40	40	15.92	2300	582.2
			240*,250*	410	330													
			190,200,220	352	282													
			240,250,260*	410	330													
G I CLZ15	224000	1900	280*	470	380	580	510	400	450	278	214	17	41	45	40	25.78	2600	778.2
			200,220	352	282													
			240,250,260*	410	330													
			280*	470	380													
G I CLZ16	355000	1600	240,250,260	410	330	680	595	465	500	320	250	250	16.5	65	50	46.89	4100	1071
			280,300*,320*	470	380													
			220	352	282													
			240,250,260	410	330													
G I CLZ17	400000	1500	240,250,260	410	330	720	645	495	530	336	256	17	46	50	50	60.59	5100	1210
			280,300,320*	470	380													
			240,250,260	410	330													
			280,300,320	470	380													
G I CLZ18	500000	1400	240,250,260	410	330	775	675	520	540	351	262	16.5	53	48	50	81.75	6000	1475
			280,300,320	470	380													
			340*	550	450													
			260	410	330													
G I CLZ19	630000	1300	280,300,320	470	380	815	715	560	580	372	280	17	74	48	50	101.57	6700	1603
			340,360*	550	450													
			280,300,320	470	380													
			340,360,380*	550	450													
G I CLZ20	710000	1200	280,300,320	470	380	855	755	585	600	393	297	20	51	50	50	140.03	8100	2033
			340,360,380*	550	450													
			300,320	470	380													
			340,360,380	550	450													
G I CLZ21	900000	1100	340,360,380	550	450	915	795	620	640	404	305	20	51	50	50	183.49	10500	2385
			400*	650	540													
			340,360,380	550	450													
			400,420*	650	540													
G I CLZ22	950000	950	360,380	550	450	960	840	665	680	415	316	20	51	60	235.04	14000	2452	
			400,420*	650	540													
			360,380	550	450													
			400,420,450*	650	540													
G I CLZ23	1120000	900	400,420,450*	650	540	1010	890	710	720	435	333	20	51	55	60	323.16	15000	3332
			380	550	450													
			400,420,450,480*	650	540													
			400,420,450	650	540													
G I CLZ24	1250000	875	480,500*	650	540	1120	970	770	800	465	362	22	58	60	485.96	18000	4073	
			420,450,480,500	650	540													
			530*	800	680													
			450,480,500	650	540													
G I CLZ25	1400000	850	530,560*	800	680	1210	1060	850	900	479	369	22	58	70	789.74	23000	5485	
			480,500	650	540													
			530,560,600*	800	680													
			480,500	650	540													
G I CLZ26	1800000	800	530,560,600*	800	680	1250	1080	890	960	517	402	28	63	70	960.26	24000	6050	
			500	650	540													
			530,560,600,630*	800	680													
			560,600,630	800	680													
G I CLZ27	2000000	770	670*	800	680	1340	1200	960	1010	517	396	28	65	63	80	1268.98	26000	7090
			560,600,630	800	680													
			670*	800	680													
			560,600,630	800	680													
G I CLZ28	2800000	725	670*	800	680	1390	1240	1005	1070	525	403	28	63	80	1822.02	30000	9264	
			560,600,630	800	680													
			670*	800	680													
			560,600,630	800	680													
G I CLZ29	3500000	700	670*	800	680	1390	1240	1005	1070	525	403	28	63	80	1822.02	30000	9264	
			560,600,630	800	680													
			670*	800	680													
			560,600,630	800	680													

Remarks:
 1. The weight and rotational inertia are the approximate value calculated by the maximal length of the minimum Axle hole diameter in each type.
 2. When D₂ ≥ 465 mm, the O ring is made by bonding the rubber bands with circular section.
 3. In the Figure, the axle hole size marked with * applies to d₂ only.
 4. If the tooth surface is azotized or surface-hardened, the relevant nominal torque should be calculated as 1.3 times of the corresponding value in the Figure.

- Tooth-type coupling of Type CL applies to the transmission device with two horizontal coaxial lines. It's a tooth-type coupling with a certain angle compensates for relative offset of the two axis. The nominal transmission torque is from 0.71 to 1,000 KN·m. The load capacity, angular compensating capacity and tooth contacting condition of it are inferior to of those of drum tooth-type coupling. So the straight tooth coupling is wildly replaced by drum tooth-type coupling.



The basic parameters and the main dimensions of Tooth-type coupling of Type CL by JB/ZQ4218-86

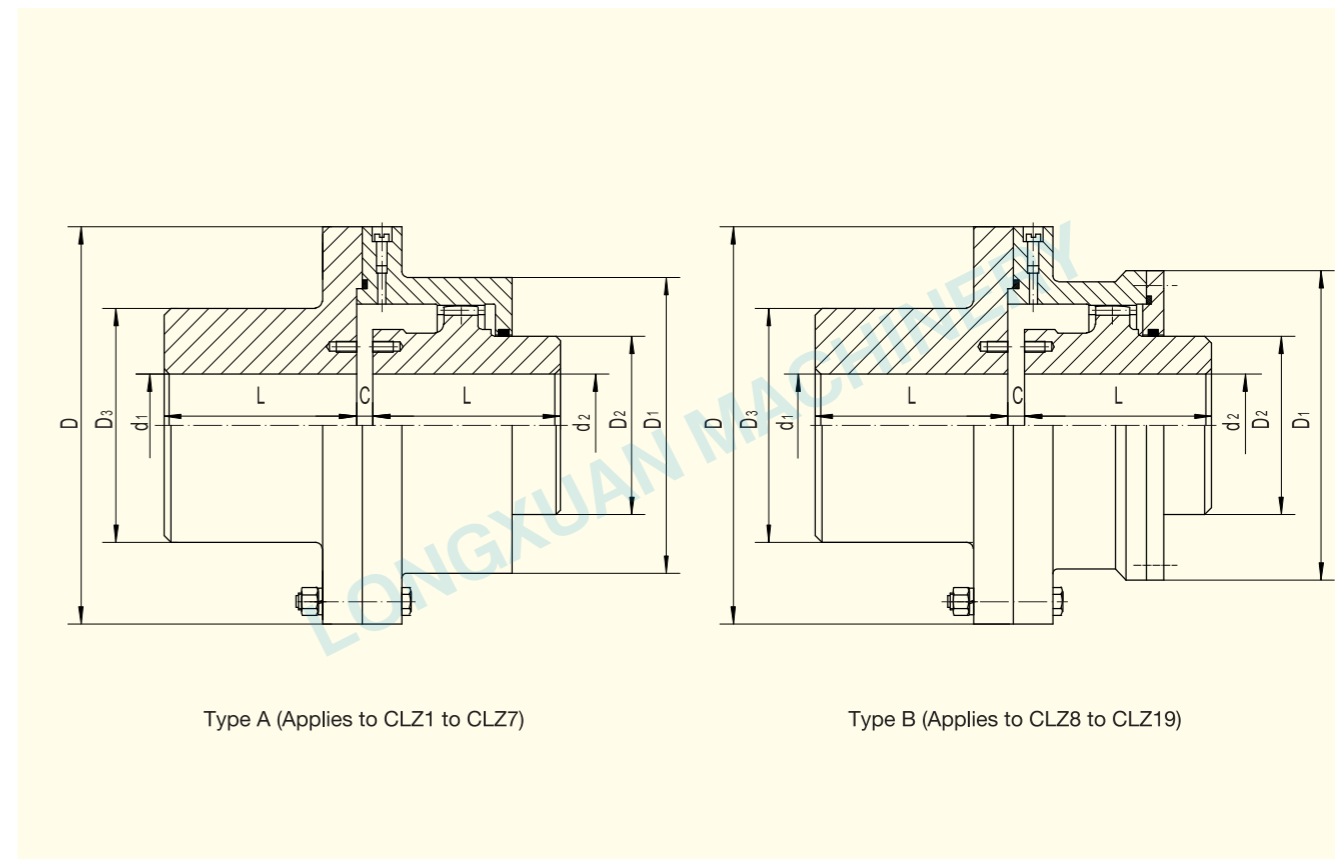
Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ , d ₂ , d _z		Axle hole length L		A	B	D	D ₁	D ₂	C	C ₁	C ₂	e	Rotational Inertia Kg·m ²	Weight Kg
			Y	J ₁ , Z ₁													
mm																	
CL1	710	3780	18,19	42	30	49	106	170	110	55	16	—	—	—	12	0.03	7.8
			20,22,24	52	88												
			25,28	62	44												
			30,32,35,38	82	60												
			40	112	84												
CL2	1400	3000	30,32,35,38	82	60	75	134	185	125	70	2.5	13	22	28	12	0.05	12.5
			40,42,45	112	84												
			48,50	112	84												
			48,50	112	84												

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ ,d ₂ ,d _z	Axle hole length		A	B	D	D ₁	D ₂	C	C ₁	C ₂	e	Rotational Inertia Kg·m ²	Weight Kg
				Y	J ₁ ,Z ₁											
				L												
CL3	3150	2400	40,42,45	112	84	92	170	220	150	90	2.5	15	28	18	0.13	26.9
			48,50,55,56	142	107											
			60	142	107											
CL4	5600	2000	45,48,50	112	84	125	200	250	175	110	2.5	21	28	18	0.21	34.9
			55,56	142	107											
			60,63,65,70	142	107											
			71,75	142	107											
CL5	8000	1680	50,55,56	112	84	145	220	290	200	130	5	30	40	25	0.45	55.8
			60,63,65,70	142	107											
			71,75	172	132											
CL6	11200	1500	60,63,65	142	107	160	246	320	230	140	5	25	—	25	0.70	79.9
			70,71,75	172	132											
			80,85,90,95	212	167											
			100,110	212	167											
CL7	18000	1270	65,70,71,75	142	107	185	286	350	260	170	5	40	40	30	1.15	109.5
			80,85,90,95	172	132											
			100,110,120	212	167											
CL8	22400	1140	80,85,90,95	172	132	210	325	380	315	190	5	35	45	30	2.38	138.8
			100,110,120,125	212	167											
			130,140	252	202											
CL9	28000	1000	90,95	172	132	220	335	430	365	210	5	40	—	30	3.55	171
			100,110,120,125	212	167											
			130,140,150	252	202											
CL10	50000	850	110,120,125	212	167	245	365	490	420	260	5	30	—	30	7.00	275.8
			130,140,150	252	202											
			160,170,180	302	242											
CL11	71000	750	120,125	212	107	280	405	545	470	330	5	40	—	35	13.75	385
			130,140,150	252	202											
			160,170,180	302	242											
			190,200,220	352	282											
CL12	100000	660	140,150	252	202	350	485	590	520	340	5	45	—	35	21.25	550
			160,170,180	302	242											
			190,200,220	352	282											
			240,250	410	330											
CL13	140000	600	160,170,180	302	242	375	524	680	590	380	7.5	45	—	40	40.00	798.3
			190,200,220	352	282											
			240,250,260	410	330											
			280	470	380											
CL14	200000	540	180	302	242	405	505	730	650	420	7.5	50	—	40	53.75	976.6
			190,200,220	352	282											
			240,250,260	410	330											
			280,300,320	470	380											
CL15	250000	480	200,220	352	282	480	644	780	700	480	7.5	50	—	40	81.25	1182.5
			240,250,260	410	330											
			280,300,320	470	380											
			340,360	550	450											
CL16	355000	425	240,250,260	410	330	535	720	900	785	530	10	—	—	50	150	1936
			280,300,320	470	380											
			340,360,380	550	450											
			400	650	540											
CL17	560000	380	260	410	330	625	800	1000	885	630	10	—	—	50	285	2700
			280,300,320	470	380											
			340,360,380	550	450											
			400,420,440,450	650	540											
CL18	710000	330	300,320	470	380	710	900	1100	990	710	10	—	—	50	400	3669
			340,360,380	550	450											
			400,420,440,450	650	540											
CL19	1000000	300	460,480,500	650	540	730	910	1250	1090	800	15	—	—	60	675	5138
			360,380	550	450											
			400,420,440,500	650	540											
			530,560	800	680											

Remarks: 1. The weight and rotational inertia are the approximate value calculated by the minimum diameter and the maximal length of the axle hole.
 2. The diameter of tapered hole $d \leq 140$ mm.
 3. Axial end baffle can be omitted in Axle hole of Type J1 if needed.

Tooth-type coupling of Type CLZ

- Tooth-type coupling of Type CLZ applies to the transmission device with two horizontal coaxial lines. It's a tooth-type coupling with a certain angle compensates for relative offset of the two axis. The nominal transmission torque is from 0.71 to 1,000 KN·m. The load capacity, angular compensating capacity and tooth contacting condition of it are inferior to of those of drum tooth-type coupling. So the straight tooth coupling is wildly replaced by drum tooth-type coupling.



Type A (Applies to CLZ1 to CLZ7)

Type B (Applies to CLZ8 to CLZ19)

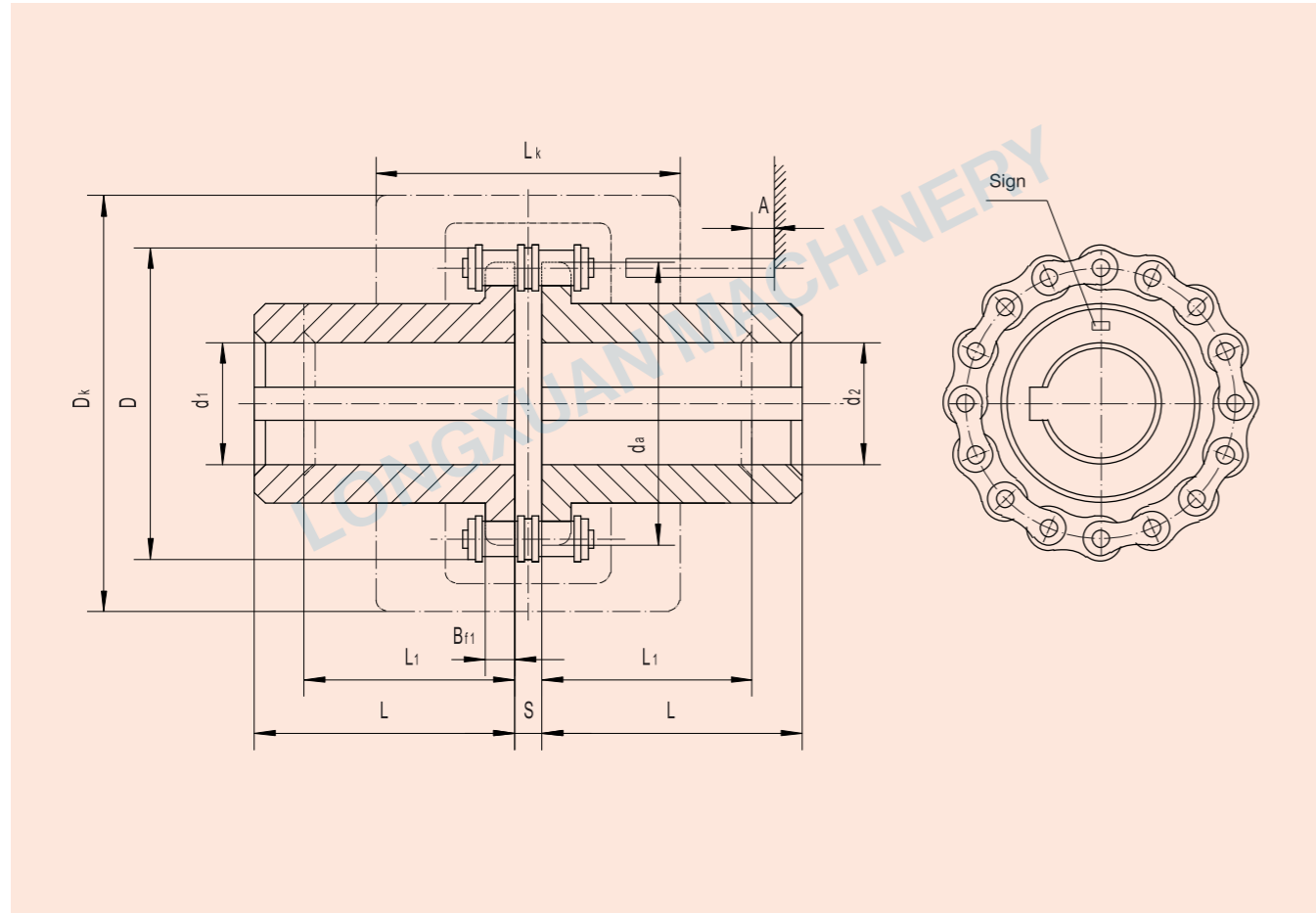
- The basic parameters and the main dimensions of Tooth-type coupling of Type CLZ by JB/ZQ4219-86

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ ,d ₂	Axle hole length		D	D ₁	D ₂	D ₃	C	Rotational Inertia Kg·m ²	Weight Kg
				Y	L							
				mm								
CLZ1	710	3780	18, 19	42	170	110	55	95	2.5	0.03	7.96	
			20,22,24	52								
			25,28	62								
			30,32,35,38	82								
			40,42*,45*,48*	112								
			50*,55*,56*	142								
60*	142											
CLZ2	1400	3000	30,32,35,38	82	185	125	70	110	2.5	0.06	12.3	
			40,42,45,48	112								
			50,55*,56*	142								
CLZ3	3150	2400	60*,63*,65*,70*	142	220	150	90	145	2.5	0.12	25.4	
			40,42,45,48	112								
			50,55,56	112								
CLZ4	5600	2000	40,42,45,48	112	250	175	110	170	2.5	0.22	37.5	
			60,63,65	142								
			70,71,75	142								
			80*,85*,90*,95*	172								
			100*	212								

Roller chain coupling of Type GL



- Roller chain coupling of Type GL has the advantages of simple structure (consists of only four components), easy to assemble and disassemble (while disassembling, do not need to move the two axles connected), compact structure, low weight, good compensation capability, low requirement for complicated design, high work reliability, long working life, low cost and so on.
- It can be used in the axial transmission of the machines in textile industry, agricultural machinery, conveying industry, construction machinery, mining industry, light industry, chemical industry, and so on. It applies in high temperature, damp and dusty working condition, but not suitable for the working condition of high speed, violent shock load and transmission axial force. Roller chain coupling should work with good lubrication and protective cover.



The basic parameters and the main dimensions of Roller chain coupling of Type GL by GB/T6069-2002

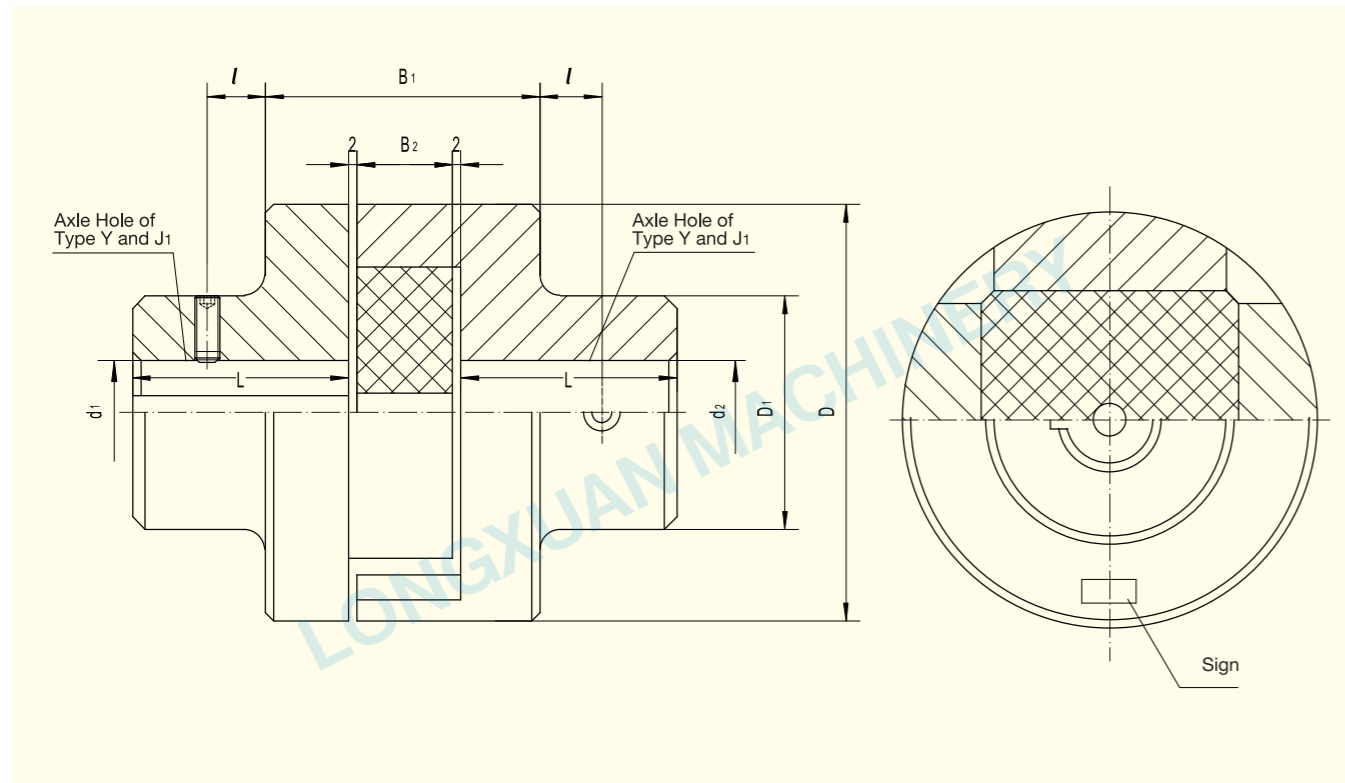
Model	Nominal torque T _n N·m	Allowable speed [n] r/min		Axle hole diameter d ₁ , d ₂ mm		Axle hole length Type Y L mm, Type J ₁ L ₁ mm		Chain number	Chain pitch P mm	Teeth number Z	D mm	Br ₁ mm	Diameter of top circle d _a mm	S mm	A mm	D _k max mm	L _k max mm	Total weight m Kg	Rotational inertia I Kg·m ²
		Uncover	Covered	d ₁	d ₂	L	L ₁												
GL1	40	1400	4500	16	42	—	06B	9.525	14	51.06	5.3	43	4.9	—	—	70	70	0.40	0.00010
				18	42	—													
				19	42	—													
				20	52	38													
GL2	63	1250	4500	19	42	—	06B	9.525	16	57.08	5.3	49	4.9	—	—	75	75	0.70	0.00020
				20	52	38													
				22	52	38													
				24	52	38													
GL3	100	1000	4000	20	52	38	08B	12.7	14	68.88	7.2	58	6.7	12	—	85	80	1.1	0.00038
				22	52	38													
				24	52	38													
				25	62	44													

Model	Nominal torque T _n N·m	Allowable speed [n] r/min		Axle hole diameter d ₁ , d ₂ mm		Axle hole length Type Y L mm, Type J ₁ L ₁ mm		Chain number	Chain pitch P mm	Teeth number Z	D mm	Br ₁ mm	Diameter of top circle d _a mm	S mm	A mm	D _k max mm	L _k max mm	Total weight m Kg	Rotational inertia I Kg·m ²
		Uncover	Covered	d ₁	d ₂	L	L ₁												
GL4	160	1000	4000	24	52	—	08B	12.7	16	76.91	7.2	66	6.7	—	—	95	88	1.8	0.00086
				25	62	44													
				28	62	44													
				30	82	60													
				32	82	60													
GL5	250	800	3150	28	62	—	10A	15.875	16	94.46	8.9	82	9.2	—	—	112	100	3.2	0.0025
				30	82	60													
				32	82	60													
				35	82	60													
				38	82	60													
GL6	400	630	2500	32	82	60	10A	15.875	20	116.57	8.9	102	9.2	—	—	140	105	5.0	0.0058
				35	82	60													
				38	82	60													
				40	112	84													
				42	112	84													
GL7	630	630	2500	40	112	84	12A	19.05	18	127.78	11.9	110	10.9	—	—	150	122	7.4	0.012
				45	112	84													
				48	112	84													
				50	112	84													
				55	112	84													
GL8	1000	500	2240	40	112	84	16A	25.40	16	154.33	15.0	131	14.3	12	—	180	135	11.1	0.025
				45	112	84													
				50	112	84													
				60	142	107													
				70	142	107													
GL9	1600	400	2000	50	112	84	16A	25.40	20	186.50	15.0	163	14.3	12	—	215	145	20.0	0.061
				55	112	84													
				60	142	107													
				70	142	107													
				80	172	132													
GL10	2500	315	1600	60	142	107	20A	31.75	18	213.02	18.0	183	17.8	6	—	245	165	26.1	0.079
				65	142	107													
				70	142	107													
				75	142	107													
				80	172	132													
GL11	4000	250	1500	75	142	107	24A	38.1	16	231.49	24.0	196	21.5	10	—	270	195	39.2	0.188
				80	172	132													
				85	172	132													
				90	172	132													
				95	172	132													
GL12	6300	250	1250	100	212	167	28A	44.45	16	270.08	24.0	228	24.9	20	—	310	205	59.4	0.380
				110	212	167													
				120	212	167													
				130	252	202													
				140	252	202													
GL13	10000	200	1120	140	252	202	32A	50.8	18	340.80	30.0	293	28.6	14	—	380	230	86.5	0.869
				150	252	202													
				160	302	242													
				170	302	242													
				180	302	242													
GL14	16000	200	1000	160	302	242	32A	50.8	22	405.22	30.0	357	28.6	14	—	450	250	150.8	2.06
				170	302	242													
				180	302	242													
				190	352	282													
				200	352	282													
GL15	25000	200	900	180	302	242	40A	63.5	20	466.25	36.0	406	35.6	18	—	510	285	234.4	4.37
				190	302	242													
				200	302	242													
				210	352	282													
				220	352	282													

Remarks: 1. F is added after the Model if there is a cover.
2. The weight of the coupling and the rotational inertia in the figure are the approximate value.

Oldham coupling of Type WH

- Oldham coupling has the similar structure to Cross oldham coupling. The difference is that the Cross oldham coupling is a square slider. It connects the two half coupling when the intermediate slider do ingroove radial slide on both ends.
- Oldham coupling has loud noise, low efficiency, and wears fast. So it will not be used if possible. Only in the low-speed situation, such as ball crusher, is it used.



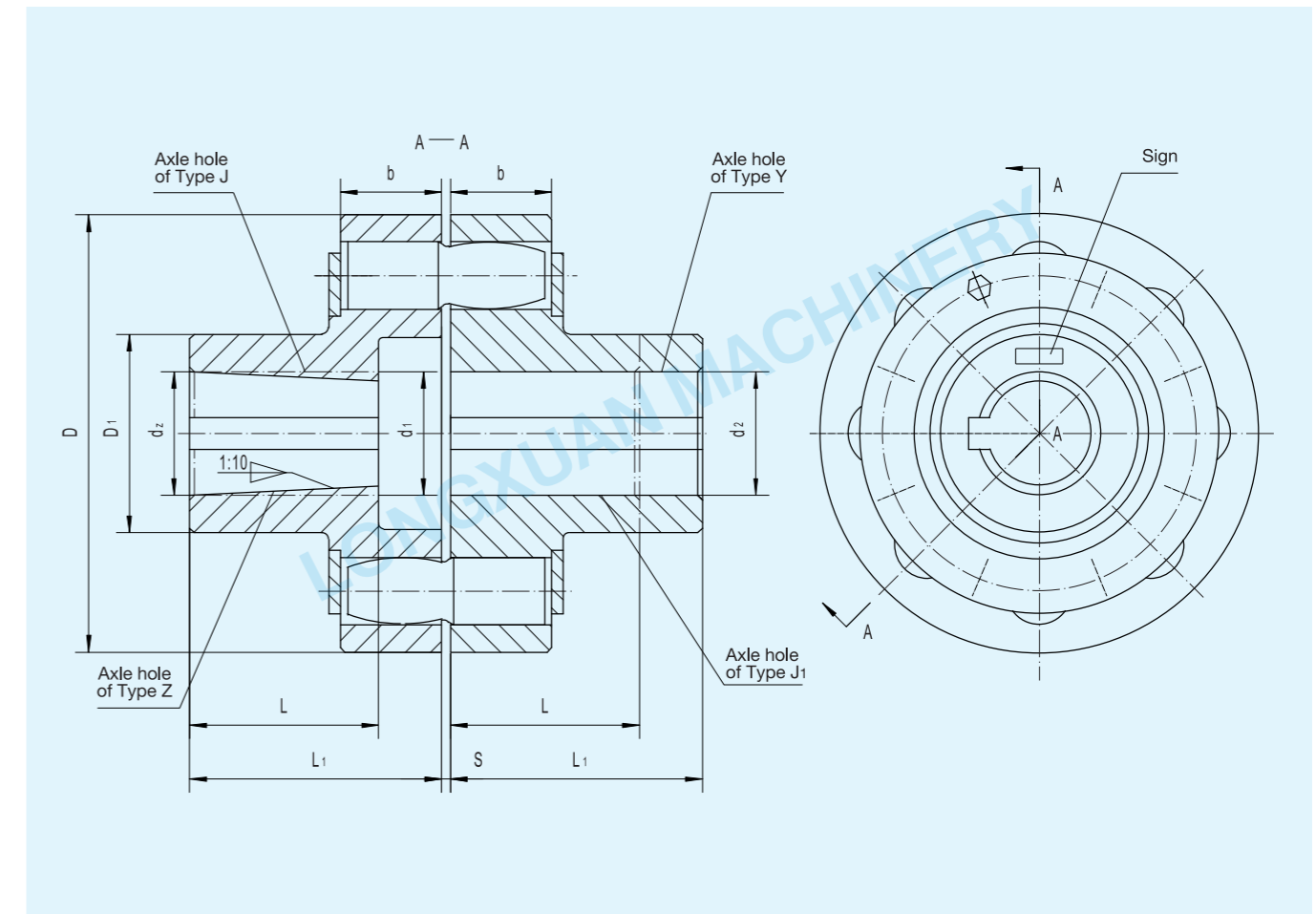
The basic parameters and the main dimensions of Oldham coupling of Type WH by JB/ZQ4384-2006

Model	Nominal torque T_n N·m	Allowable speed [n] r/min	Axle hole diameter d_1, d_2		Axle hole length		D	D_1	B_1	B_2	l	Rotational Inertia Kg·m ²	Weight Kg
			Y	J ₁	L	L							
WH1	16	10000	10,11	25	22	40	30	52	13	5	0.0007	0.6	
			12,14	32	27								
WH2	31.5	8200	12,14	32	27	50	32	56	18	5	0.0038	1.5	
			16,(17),18	42	30								
WH3	63	7000	(17),18,19	42	30	70	40	60	18	5	0.0063	1.8	
			20,22	52	38								
WH4	160	5700	20,22,24	52	38	80	50	64	18	8	0.013	2.5	
			25,28	62	44								
WH5	280	4700	25,28	62	44	100	70	75	23	10	0.045	5.8	
			30,32,35	82	60								
WH6	500	3800	30,32,35,38	82	60	120	80	90	33	15	0.12	9.5	
			40,42,45	112	84								
WH7	900	3200	40,42,45,48	112	84	150	100	120	38	25	0.43	25	
			50,55	142	107								
WH8	1800	2400	60,63,65,70	142	107	190	120	150	48	25	1.98	55	
			65,70,75	172	132								
WH9	3550	1800	80,85	172	132	250	150	180	58	25	4.9	85	
			80,85,90,95	212	167								
WH10	5000	1500	100	212	167	330	190	180	58	40	7.5	120	

Remarks: 1. The weight and rotational inertia are the approximate values calculated by the minimum diameter and the maximal length.
2. The values in parenthesis should be adopted if unnecessary.
3. The temperature of its working condition is from -20 °C to 70 °C.

Resilient dowel pin coupling of Type HL

- Resilient dowel pin coupling of Type HL applies to the transmission axles whose two coaxial cables are mechanically connected. It's mainly used in high- and low speed situation with frequent restart. The temperature of its working condition is from -20 °C to 70 °C. The nominal transmission torque is from 250 to 180, 000 N·m.
- It has the advantages of simple structure, convenient to maintain, long working life. It allows quite large axial float and has the capabilities of buffering, shock-absorbing, hard-wearing, and so on.



The basic parameters and the main dimensions of Resilient dowel pin coupling of Type HL by JB/ZQ4726-2006

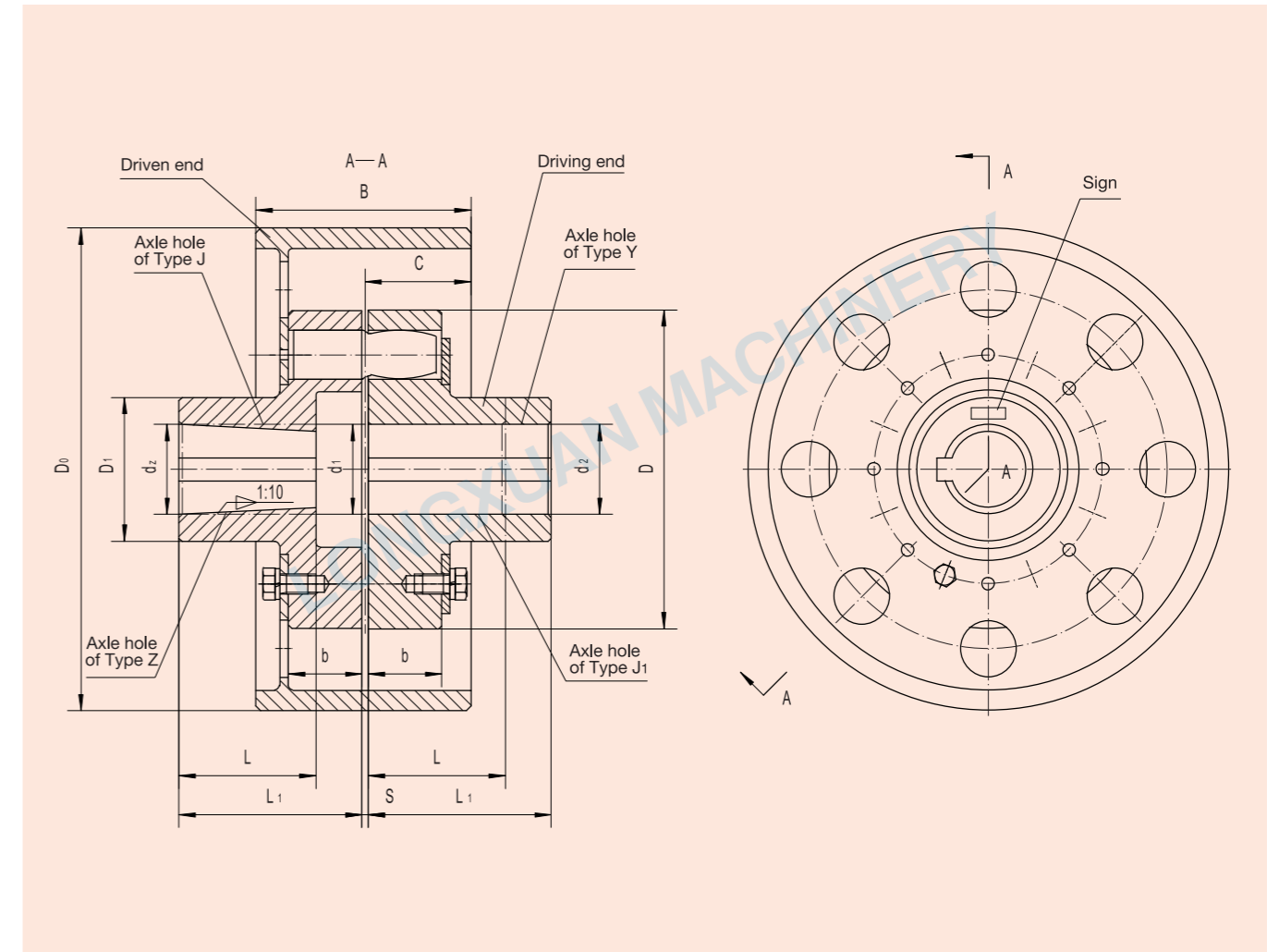
Model	Nominal torque T_n N·m	Allowable speed [n] r/min	Axle hole diameter d_1, d_2, d_3 mm			Axle hole length mm			D mm	D_1 mm	b mm	S mm	Rotational Inertia Kg·m ²	Weight Kg
			Y	J, J ₁ , Z	L	L	L ₁							
HL1	250	8500	12,14	32	27	32	90	40	20	2.5	0.003	2		
			16,18,19	42	30	42								
			20,22,24	52	38	52								
HL2	560	6300	20,22,24	52	38	52	120	55	28	2.5	0.015	5		
			25,28	62	44	62								
			30,32,35	82	60	82								
HL3	1250	4750	30,32,35,38	82	60	82	160	75	36	2.5	0.15	8		
			40,42,45,48	112	84	112								
HL4	2500	3870	40,42,45,48,50,55,56	112	84	112	195	100	45	3	0.08	22		
			60,63	142	107	142								

Resilient dowel pin coupling with braking discs of Type HLL

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ ,d ₂ ,d _z mm	Axle hole length mm			D mm	D ₁ mm	b mm	S mm	Rotational Inertia Kg·m ²	Weight Kg
				Y	J,J ₁ ,Z							
				L	L	L ₁						
HL5	3150	3450	50,55,56	112	84	112	220	120	45	3	0.14	30
			60,63,65,70,71,75	142	107	142						
HL6	6300	2720	60,63,65,70,71,75	142	107	142	280	140	56	4	0.36	53
			80,85	172	132	172						
HL7	11200	2360	70,71,75	142	107	142	320	170	56	4	1.1	98
			80,85,90,95	172	132	172						
			100,110	212	167	212						
HL8	16000	2120	80,85,90,95	172	132	172	360	200	56	5	1.4	119
			100,110,120,125	212	167	212						
HL9	22400	1850	100,110,120,125	212	167	212	410	230	63	5	3.35	197
			130,140	252	202	252						
HL10	35500	1600	110,120,125	212	167	212	480	280	75	6	6.8	322
			130,140,150	252	202	252						
HL11	50000	1400	160,170,180	302	242	302	540	340	75	6	14.1	520
			130,140,150	252	202	252						
			190,200,220	352	282	352						
HL12	80000	1220	160,170,180	302	242	302	630	400	90	7	22.5	714
			190,200,220	352	282	352						
HL13	125000	1080	240,250,260	410	330	—	710	465	100	8	42.5	1057
			280,300	470	380	—						
			240,250,260	410	330	—						
HL14	180000	950	280,300,320	470	380	—	800	530	110	8	108.2	1956
			340	550	450	—						

Remarks: 1. The weight and rotational inertia are the approximate value calculated by the minimum diameter and the maximal length of the axle hole.
2. The temperature of its working condition is from -20 °C to 70 °C.

- Resilient dowel pin coupling of Type HLL applies in conjunction with brake shoe. It's mainly used in high- and- low speed situation with frequent restart. The temperature of its working condition is from -20 °C to 70 °C. The nominal transmission torque is from 560 to 35, 500 N·m.
- It has the advantages of simple structure, convenient to maintain, long working life. It allows quite large axial float and has the capabilities of buffering, shock-absorbing, hard-wearing, and so on.



- The basic parameters and the main dimensions of Resilient dowel pin coupling with braking discs of Type HLL by JB/ZQ4726-2006

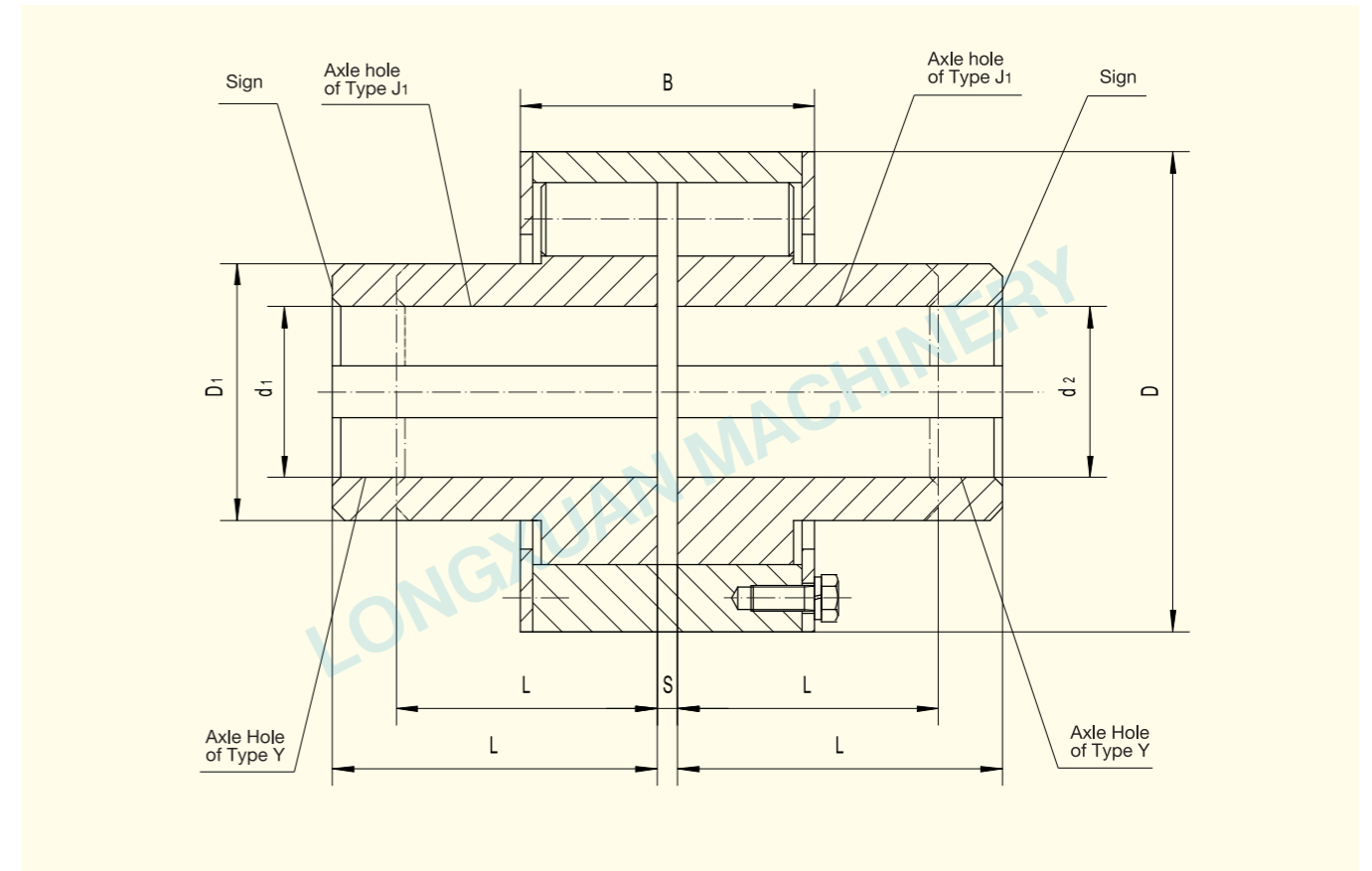
Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ ,d ₂ ,d _z mm	Axle hole length mm			D ₀ mm	D mm	B mm	D ₁ mm	b mm	S mm	C mm	Rotational Inertia Kg·m ²	Weight Kg
				Y	J,J ₁ ,Z										
				L	L	L ₁									
HLL1	560	5600	20,22,24	52	38	52	200	120	85	55	28	2.5	42	0.053	11
			25,28	62	44	62									
			30,32,35	82	60	82									
HLL2	1250	3750	30,32,35,38	82	60	82	200	160	85	75	36	2.5	47	0.06	14
			40,42,45,48	112	84	112									
HLL3	1250	2430	30,32,35,38	82	60	82	315	160	132	75	36	2.5	66	0.32	25
			40,42,45,48	112	84	112									
HLL4	2500	2430	40,42,45,48,50,55,56	112	84	112	315	195	132	100	45	3	66	0.42	40
			60,63	142	107	142									

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ ,d ₂ ,d _z mm	Axle hole length mm			D ₀ mm	D mm	B mm	D ₁ mm	b mm	S mm	C mm	Rotational Inertia Kg·m ²	Weight Kg
				Y	J, J ₁ , Z										
				L	L	L ₁									
HLL5	2500	1900	40,42,45, 48,50,55,56	112	84	112	400	195	168	100	45	3	84	1.2	59
			60,63	142	107	142									
HLL6	3150	1900	50,55,56 60,63,65, 70,71,75	112	84	112	400	220	168	120	45	3	84	1.42	69
			60,63,65, 70,71,75	142	107	142									
HLL7	3150	1500	50,55,56 60,63,65, 70,71,75	112	84	112	500	220	210	120	45	3	105	3.1	91
			60,63,65, 70,71,75	142	107	142									
HLL8	6300	1900	60,63,65, 70,71,75 80,85	142	107	142	400	280	168	140	56	4	84	4.15	88
			80,85	172	132	172									
HLL9	6300	1500	60,63,65, 70,71,75 80,85	142	107	142	500	280	210	140	56	4	105	3.2	113
			80,85	172	132	172									
HLL10	11200	1500	70,71,75 80,85,90 100,110	142	107	142	500	320	210	170	56	4	105	4.24	156
			80,85,90 100,110	172	132	172									
HLL11	11200	1220	70,71,75 80,85,90,95 100,110	142	—	—	630	320	265	170	56	4	132	8.5	187
			80,85,90,95 100,110	172	132	172									
HLL12	16000	1220	80,85,90,95 100,110,120,125	172	132	172	630	360	265	200	56	5	132	8.78	326
			100,110,120,125	212	167	212									
HLL13	22400	1080	100,110,120,125 130,140	212	167	212	710	410	298	230	63	5	149	17.7	337
			130,140	252	202	252									
HLL14	35500	1080	110,120,125	212	167	212	710	480	298	280	63	6	149	18.16	458
			130,140,150	252	202	252									
			160,170,180	302	242	302									
HLL15	35500	950	110,120,125	212	167	212	800	480	335	280	75	6	168	30.8	504
			130,140,150	252	202	252									
			160,170,180	302	242	302									

Remarks: 1. The weight and rotational inertia are the approximate value calculated by the minimum diameter and the maximal length of the axle hole.
2. The braking wheel can also be integrate.
3. The temperature of its working condition is from -20 °C to 70 °C.

Resilient dowel pin tooth-type coupling of Type ZL

- Resilient dowel pin tooth-type coupling of Type ZL has a certain angle compensates for relative offset of the two axis, and applies to the transmission of medium and large efficiency. It has the characteristics of large driving torque, simple structure, easy to maintain, long working life, and so on. The temperature of its working condition is from -20°C to 70°C. The nominal transmission torque is from 100 to 2, 500, 000 N·m.



- The basic parameters and the main dimensions of Resilient dowel pin tooth-type coupling of Type ZL by JB/ZQ4727-2006

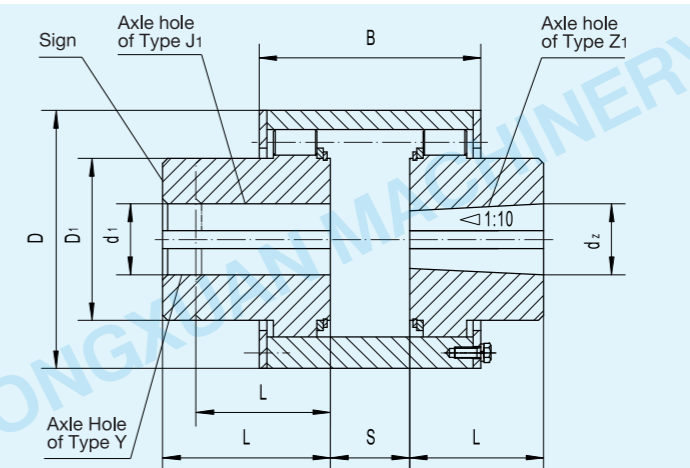
Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ ,d ₂ mm	Axle hole length L		D mm	D ₁ mm	B mm	S mm	Rotational Inertia Kg·m ²	Weight Kg	
				Y	J ₁							
				mm								
ZL1	100	4000	12,14	32	—	78	40	42	2.5	0.001	1.438	
			16,18,19	42	30							1.560
			20,22,24	52	38							
ZL2	250	4000	16,18,19	42	—	90	50	50	2.5	0.002	2.451	
			20,22,24	52	38							2.635
			25,28	62	44							
ZL3	630	4000	30,32	82	60	118	65	70	3	0.009	3.321	
			25,28	62	44							5.592
			30,32,35,38	82	60							
ZL4	1600	4000	40,42	112	84	158	90	90	4	0.010	6.466	
			40,42,45,48,50,55,56	112	84							0.38
			60	142	107							
ZL5	4000	4000	50,55,56	112	84	192	120	90	4	0.39	13.998	
			60,63,65,70,71,75	142	107							0.088
			80	172	132							
ZL6	6300	3300	60,63,65,70,71,75	142	107	230	130	112	5	0.095	26.630	
			80,85,90	172	132							0.098
			70,71,75	142	107							
ZL7	10000	2900	80,85,90,95	172	132	260	160	112	5	0.183	35.099	
			100,110	212	167							0.188
			80,85,90,95	172	132							
ZL8	16000	2500	80,85,90,95	172	132	300	190	128	6	0.344	51.941	
			100,110,120,125	212	167							0.369
			130	252	202							
										0.740	85.388	
										0.798	90.626	
										0.800	82.060	

Resilient dowel pin tooth-type coupling with conical holes of Type ZLD

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ ,d ₂ mm	Axle hole length L mm		D mm	D ₁ mm	B mm	S mm	Rotational Inertia Kg·m ²	Weight Kg
				Y	J ₁						
ZL9	25000	2300	90,95	172	132	335	220	150	7	1.232	112.639
			100,110,120,125	212	167					1.361	127.551
			130,140,150	252	202					1.427	125.049
ZL10	31500	2100	100,110,120,125	212	167	355	245	152	8	1.936	160.704
			130,140,150	252	202					2.080	163.936
			160,170	302	242					2.163	158.128
ZL11	40000	2000	110,120,125	212	167	380	258	172	8	2.511	177.660
			130,140,150	252	202					2.721	189.608
			160,170,180	302	242					2.868	187.832
ZL12	63000	1700	130,140,150	252	202	445	290	182	8	5.103	263.398
			160,170,180	302	242					5.456	272.432
			190,200	352	282					5.597	262.926
ZL13	100000	1500	150	252	202	515	345	218	8	10.613	399.676
			160,170,180	302	242					11.597	447.644
			190,200,220	352	282					12.286	459.670
			240	410	330					12.163	410.282
ZL14	125000	1400	170,180	302	242	560	390	218	8	17.334	567.547
			190,200,220	352	282					18.798	612.253
			240,250,260	410	330					19.477	586.519
			280,300,320	470	380					24.640	720.796
ZL15	160000	1300	240,250,260	410	330	590	420	240	10	26.032	712.440
			280,300	470	380					26.554	679.790
			220	352	282					48.457	1010.320
			240,250,260	410	330					52.785	1100.910
ZL16	250000	1000	280,300,320	470	380	695	490	265	10	55.761	1115.386
			340	550	450					55.993	1022.610
			240,250,260	410	330					85.646	1474.247
			280,300,320	470	380					91.753	1534.891
ZL17	315000	950	340,360,380	550	450	770	550	285	10	96.160	1503.669
			250,260	410	330					131.549	1847.739
			280,300,320	470	380					141.955	1980.153
			340,360,380	550	450					151.599	2011.597
ZL18	400000	850	400,420	650	540	860	605	300	13	157.930	1964.523
			280,300,320	470	380					244.767	2743.400
			340,360,380	550	450					266.661	2890.260
			400,420,440,450	650	540					288.303	2987.456
ZL19	630000	750	320	470	380	970	695	322	14	484.727	3867.934
			340,360,380	550	450					531.501	4308.732
			400,420,440,450	650	540					580.315	4599.492
			460,480,500	650	540					1353.544	7178.032
ZL20	1000000	650	380	550	450	1158	800	355	15	1512.413	8157.832
			400,420,440,450	650	540					1691.025	8593.602
			460,480,500	650	540					2079.058	9674.878
			530,560,600,630	800	680					2351.440	10555.786
ZL21	1600000	530	420,440,450,460,480,500	650	540	1440	1020	360	18	2394.865	9837.026
			530,560,600,630	800	680					3130.426	11891.545
			670,710,750	900	780					3632.924	13811.197
			800,850	1000	880					3827.698	12482.437
ZL22	2000000	500	480,500	650	540	1520	1100	405	19	3815.088	13496.393
			530,560,600,630	800	680					3827.698	12482.437
			670,710,750	900	780					3815.088	13496.393
			800,850	1000	880					3827.698	12482.437
ZL23	2500000	460	480,500	650	540	1640	1240	438	20	3815.088	13496.393
			530,560,600,630	800	680					3815.088	13496.393
			670,710,750	900	780					3815.088	13496.393
			800,850	1000	880					3827.698	12482.437

Remarks: 1. The weight and rotational inertia are calculated according to the axle hole combination of Type Y/Y and the diameter of minimum axle hole.
 2. Momentary load should be no more two times of the nominal torque T_n.
 3. The temperature of its working condition is from -20 °C to 70 °C.

Resilient dowel pin tooth-type coupling with conical holes of Type ZLD has a certain angle compensates for relative offset of the two axis, and applies to the transmission of medium and large efficiency. It has the characteristics of large driving torque, simple structure, easy to maintain, long working life, and so on. The temperature of its working condition is from -20 °C to 70 °C. The nominal transmission torque is from 100 to 2, 500, 000 N·m.



The basic parameters and the main dimensions of Resilient dowel pin tooth-type coupling with conical holes of Type ZLD by JB/ZQ4374-2006

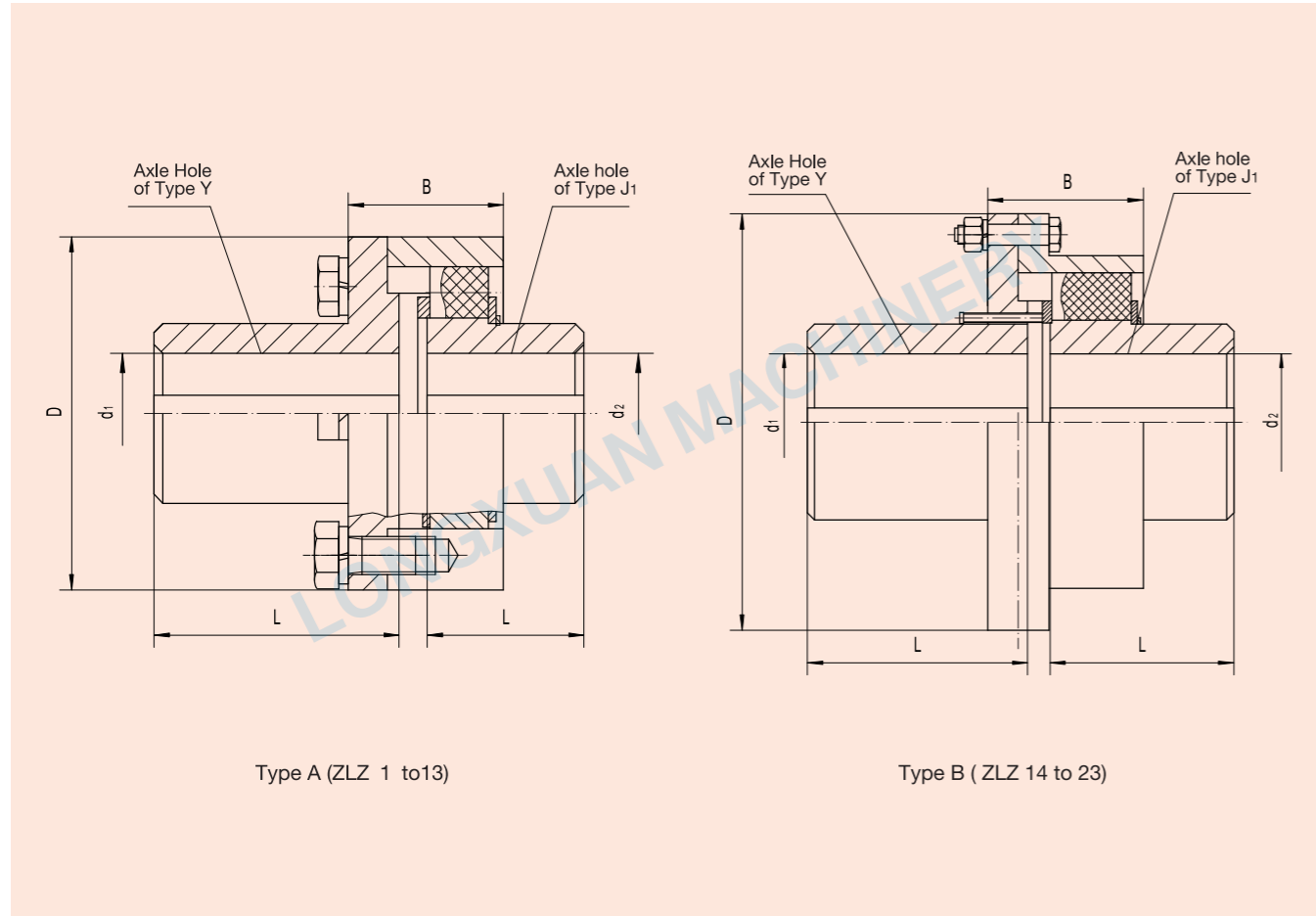
Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ ,d ₂ mm	Axle hole length L mm		D mm	D ₁ mm	B mm	S mm	Rotational Inertia Kg·m ²	Weight Kg	
				Y	J ₁ ,Z ₁							
ZLD1	100	4000	20,22,24	52	38	78	40	70	16.5	0.002	2.038	
			25,28	62	44			75	20.5		2.093	
ZLD2	250	4000	30,32	82	60	90	50	92	24.5	0.004	3.988	
ZLD3	630	4000	30,32,35,38	82	60	118	65	115	25	0.014	7.458	
			40,42	112	84			122	31		7.953	
ZLD4	1600	4000	40,42,45,48,50	112	84	158	90	145	32	0.052	17.020	
			55,56	142	107			152	39		16.411	
			60	142	107			145	32		0.112	25.911
ZLD5	4000	4000	50,55,56	112	84	192	120	152	39	0.122	28.525	
			60,63,65,70,71,75	142	107			158	44		0.127	27.294
			80	172	132			175	40		0.239	38.199
ZLD6	6300	3300	60,63,65,70,71,75	142	107	230	130	178	45	0.247	37.705	
			80,85,90	172	132			178	40		0.402	55.371
ZLD7	10000	2900	70,71,75	142	107	260	160	182	45	0.464	59.995	
			80,85,90,95	172	132			188	50		0.491	61.082
			100,110	212	167			202	46		0.908	89.811
ZLD8	16000	2500	80,85,90,95	172	132	300	190	208	51	0.980	95.962	
			100,110,120,125	212	167			212	56		0.996	89.270
			130	252	202			232	47		1.474	116.194
ZLD9	25000	2300	90,95	172	132	335	220	238	52	1.617	131.220	
			100,110,120,125	212	167			242	57		1.696	130.214
			130,140,150	252	202			240	53		2.234	162.898
ZLD10	31500	2100	100,110,120,125	212	167	355	245	245	58	2.394	167.492	
			130,140,150	252	202			255	68		2.513	163.797
			160,170	302	242			260	53		2.915	180.979
ZLD11	40000	2000	110,120,125	212	167	380	258	265	58	3.144	193.615	
			130,140,150	252	202			275	68		3.334	193.771
			160,170,180	302	242			282	58		6.027	279.243
ZLD12	63000	1700	130,140,150	252	202	445	290	292	68	6.455	289.849	
			160,170,180	302	242			302	78		6.690	283.709
			190,200	352	282							

Remarks: 1. The weight and rotational inertia are calculated according to the axle hole combination of Type Y/Z₁ and the diameter of minimum axle hole.
 2. Momentary load should be no more two times of the nominal torque T_n.
 3. The temperature of its working condition is from -20 °C to 70 °C.

Resilient dowel pin tooth-type coupling with intermediate axles of Type ZLZ



- Resilient dowel pin tooth-type coupling with conical holes of Type ZLD has a certain angle compensates for relative offset of the two axis, and applies to the transmission of medium and large efficiency. It has the characteristics of large driving torque, simple structure, easy to maintain, long working life, and so on. The temperature of its working condition is from -20 °C to 70 °C. The nominal transmission torque is from 100 to 2,500,000 N·m.



- The basic parameters and the main dimensions of Resilient dowel pin tooth-type coupling with intermediate axles of Type ZLZ by GB5015-85

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter mm		Axle hole length mm		D	B	Rotational Inertia Kg·m ²	Weight m Kg
			d ₁	d ₂	Type Y L	Type J ₁ L				
ZLZ1	100	4000	12	12	32	27	84	38	0.0013	1.5
			14	14						
			16	16						
			18	18	42	30				
			19	19						
			20	20						
			22	22	52	38				
24	24									
ZLZ2	250	4000	25	25	62	44	98	42	0.0058	4.1
			28	28						
			16	16	42	30				
			18	18						
			19	19						
			20	20						
			22	22	52	38				
			24	24						
			25	25						
			28	28	62	44				
30	30									
32	32									
35	35									
38	38									
				82	60					

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter mm		Axle hole length mm		D	B	Rotational Inertia Kg·m ²	Weight m Kg
			d ₁	d ₂	Type Y L	Type J ₁ L				
ZLZ3	630	4000	25	25	62	44	124	53	0.02	8
			28	28						
			30	30						
			32	32	82	60				
			35	35						
			38	38						
			40	40	112	84				
ZLZ4	1600	4000	42	42	112	84	166	73	0.08	21.2
			45	45						
			48	48						
			50	50						
			55	55						
			56	56						
			60	60	142	107				
			63	63						
			65	65						
			70	70						
ZLZ5	4000	3600	50	50	112	84	214	78	0.2	34.6
			55	55						
			56	56						
			60	60						
			63	63	142	107				
			65	65						
			70	70						
ZLZ6	6300	3200	71	71	142	107	240	89	0.35	48.9
			75	75						
			80	80						
			85	85	175	132				
			90	90						
			95	95						
			70	70						
			71	71	142	107				
			75	75						
			ZLZ7	10000	2700	80				
85	85									
90	90									
95	95									
100	100	212				167				
110	110									
120	120									
ZLZ8	16000	2300	80	80	172	132	330	113	1.6	119
			85	85						
			90	90						
			95	95						
			100	100	212	167				
			110	110						
			120	120						
ZLZ9	25000	2100	125	125	252	202	370	133	2.7	160
			130	130						
			90	90	172	132				
			95	95						
			100	100	212	167				
			110	110						
			120	120						
			125	125						
			130	130						
			140	140	252	202				
150	150									

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter mm		Axle hole length mm		D	B	Rotational Inertia Kg·m ²	Weight m Kg
			d ₁	d ₂	Type Y	Type J ₁				
					L					
ZLZ10	31500	2000	100	100	212	169	384	133	3.8	208
			110	110						
			120	120						
			125	125	252	202				
			130	130						
			140	140						
150	150	302	242							
160	160									
170	170									
ZLZ11	40000	1900	110	110	212	167	404	121	4.9	239
			120	120						
			130	130	252	202				
			140	140						
150	150	302	242							
160	160									
170	170									
ZLZ12	63000	1600	130	130	252	202	480	165	11.1	385
			140	140						
			150	150						
			160	160	302	242				
			170	170						
			180	180						
190	190	352	282							
200	200									
ZLZ13	100000	1400	150	150	252	202	545	185	19.6	527
			160	160						
			170	170	302	242				
			180	180						
			190	190	352	282				
			200	200						
220	220									
240	240	410	330							
250	250									
ZLZ14	125000	1200	170	170	302	242	648	186	36.2	689
			180	180						
			190	190	352	282				
			200	200						
			220	220						
240	240	410	330							
250	250									
ZLZ15	160000	1100	190	190	352	282	678	196	44.4	733
			200	200						
			220	220						
			240	240	410	330				
			250	250						
			260	260						
280	280	470	380							
300	300									
ZLZ16	250000	960	220	220	352	282	800	227	93.4	1168
			240	240						
			250	250	410	330				
			260	260						
			280	280						
300	300	470	380							
320	320									
ZLZ17	315000	880	340	340	550	450	876	224	160	1671
			360	360						
			380	380	410	330				
			240	240						
			250	250						
			260	260	470	380				
280	280									
ZLZ18	400000	780	240	240	410	330	980	251	282	2352
			250	250						
			260	260	470	380				
			280	280						
			300	300						
			320	320	550	450				
			340	340						
			360	360	650	540				
380	380									
400	400									
420	420									

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter mm		Axle hole length mm		D	B	Rotational Inertia Kg·m ²	Weight m Kg							
			d ₁	d ₂	Type Y	Type J ₁											
					L						L						
ZLZ19	630000	700	280	280	470	380	1100	274	438	2895							
			300	300													
			320	320													
			340	340	550	450											
			360	360													
			380	380													
400	400	650	540														
420	420																
440	440																
ZLZ20	1000000	580	450	450	470	380	1288	303	1024	4936							
			460	460													
			480	480	550	450											
			500	500													
			530	530													
			560	560	800	680											
			600	600													
			ZLZ21	1600000	480	380					380	550	450	1596	324	2400	7540
						400					400						
						420					420	650	540				
440	440																
450	450																
460	460	800				680											
480	480																
500	500																
530	530	900				780											
560	560																
ZLZ22	2000000	450	670	670	650	540	1680	353	3552	10068							
			710	710													
			750	750	800	680											
			420	420													
			440	440													
			450	450	900	780											
			460	460													
			ZLZ23	2500000	420	480					480	650	540	1810	380	5334	13025
						500					500						
						530					530	800	680				
560	560																
600	600																
630	630	900				780											
670	670																
710	710	1000				880											
750	750																
800	800																
850	850																

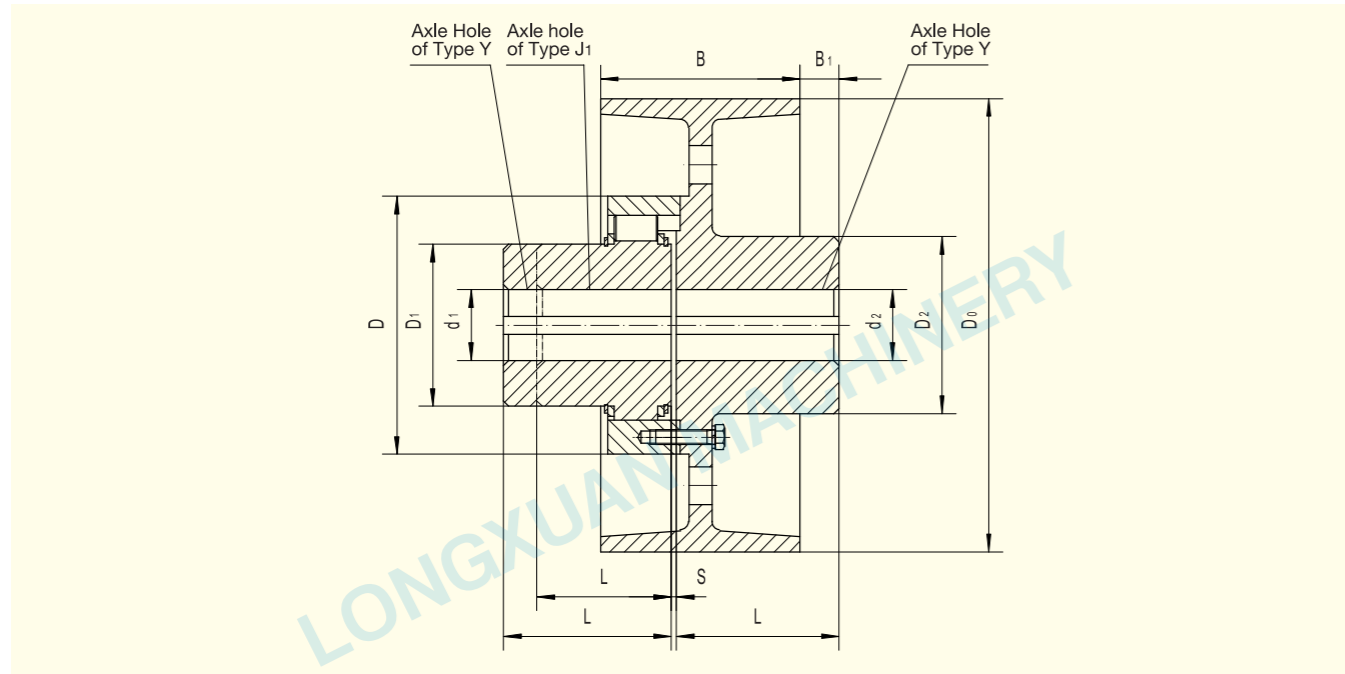
Remarks: 1. The weight and rotational inertia are the approximate values.
2. Momentary load should be no more two times of the nominal torque T_n.

Resilient dowel pin tooth-type coupling with braking wheels of Type ZLL



LONGXUAN MACHINERY

- Resilient dowel pin tooth-type coupling with braking wheels of Type ZLL applies in conjunction with brake shoe. It has a certain angle compensates for relative offset of the two axis, and applies to the transmission of medium and large efficiency. It has the characteristics of large driving torque, simple structure, easy to maintain, long working life, and so on. The temperature of its working condition is from -20 °C to 70 °C. The nominal transmission torque is from 250 to 3, 150 N·m.



- The basic parameters and the main dimensions of Resilient dowel pin tooth-type coupling with braking wheels of Type ZLL by JB/ZQ4375-2006

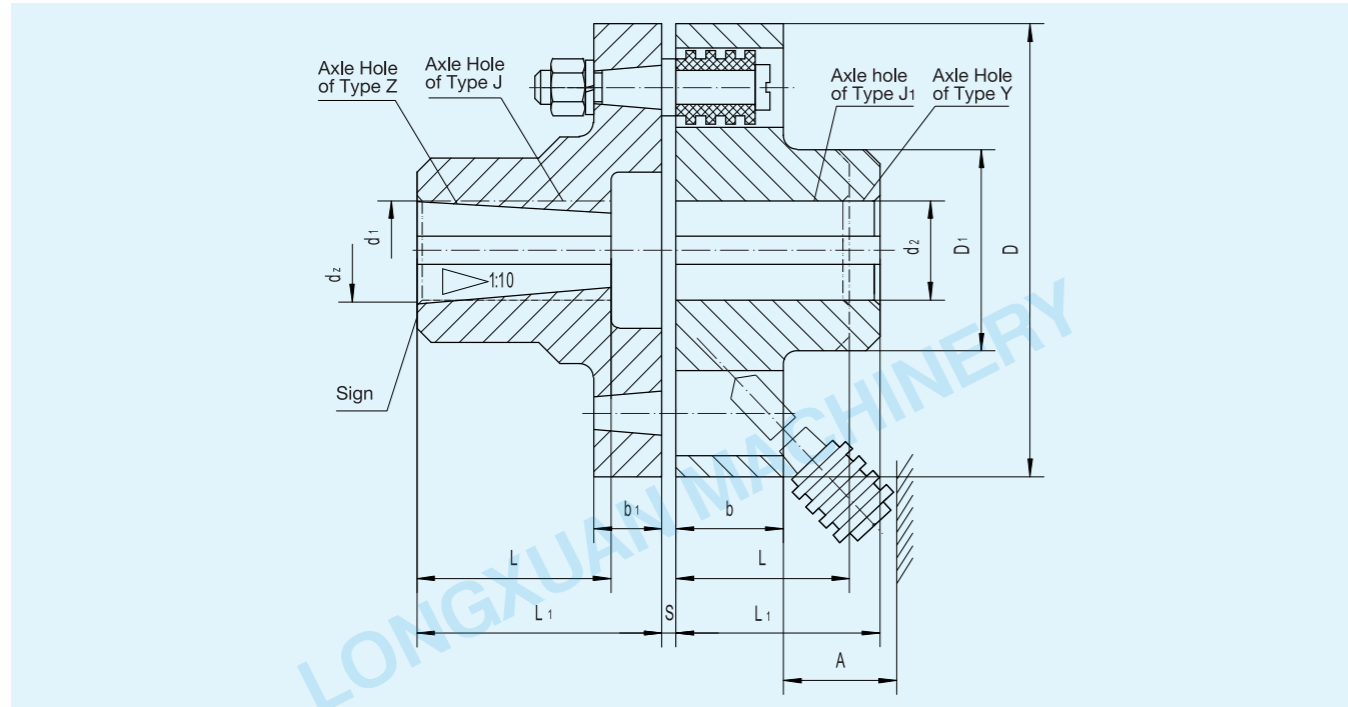
Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length L		D ₀ mm	D mm	D ₁ mm	D ₂ mm	B mm	B ₁ mm	S mm	Rotational Inertia Kg·m ²	Weight Kg	
			d ₁ mm	d ₂ mm	Y	J ₁										
ZLL1	250	4000	16	16	42	—	160	102	50	56	70	9	2	0.018	5.823	
			18	18												
			19	19												
			20	20	52	38										
			22	22												
			24	24	62	44										
			25	25												
			28	28	82	60										
			30	30												
			32	32	49	0.018										6.643
—	35															
ZLL2	630	3800	25	25	62	—	200	128	60	70	85	50	2	0.053	11.151	
			28	28												
			30	30												
			32	32	82	60										
			35	35												
			38	38	112	84										
			40	40												
			42	42	80	0.054										12.040
			—	45												
			ZLL3	1600	3000	40										40
42	42															
45	45															
48	48	142				107										
50	50															
55	55	78.5				0.183	27.539									
56	56															
60	60	—				—										
—	63															
—	65	—				—										
—	70															

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter		Axle hole length L		D ₀ mm	D mm	D ₁ mm	D ₂ mm	B mm	B ₁ mm	S mm	Rotational Inertia Kg·m ²	Weight Kg	
			d ₁ mm	d ₂ mm	Y	J ₁										
ZLL4	4000	2400	50	50	112	84	315	225	120	130	135	40	3	0.534	48.751	
			55	55												
			56	56												
			60	60	142	107										
			63	63												
			65	65	172	132										
			70	70												
			71	71	100	0.547										50.209
			75	75												
			80	80	—	—										
—	85															
ZLL5	6300	1900	60	60	142	107	400	245	130	145	170	44	3	1.404	76.506	
			63	63												
			65	65												
			70	70	172	132										
			71	71												
			75	75	74	1.413										76.251
			80	80												
			85	85	—	—										
			90	90												
			—	95	—	—										
70	70															
ZLL6	10000	1500	70	70	142	107	500	290	160	170	210	40	4	3.812	124.645	
			71	71												
			75	75												
			80	80	172	132										
			85	85												
			90	90	110	3.841										129.732
			95	95												
			100	100	212	167										
			110	110												
			—	120	—	—										
80	80															
ZLL7	16000	1200	85	85	172	132	630	345	190	200	265	42	4	10.674	216.432	
			90	90												
			95	95												
			100	100	212	167										
			110	110												
			120	120	122	10.753										215.027
			125	125												
			130	130	252	202										
			—	—												
			ZLL8	25000	1050	90										90
95	95															
100	100															
110	110	212				167										
120	120															
125	125	85				19.156	305.423									
130	130															
140	140	252				202										
150	150															
100	100	212				167										
110	110															
ZLL9	31500	950	120	120	252	202	800	400	240	240	340	40	5	33.258	403.842	
			125	125												
			130	130												
			140	140	302	242										
			150	150												
			160	160	130	33.385										405.879
			170	170												
			—	—	—	—										
			—	—												

Remarks: 1. The weight and rotational inertia are calculated according to the minimum Axle hole diameter.
2. Momentary load should be no more two times of the nominal torque T_n.
3. The temperature of its working condition is from -20 °C to 70 °C.

Resilient dowel pin coupling of Type TL

- Resilient dowel pin coupling of Type TL, which is shock-absorbing and has a certain angle compensates for relative offset of the two axis, is widely used. It's convenient to assemble, disassemble, and maintain. It applies to frequently normal-reverse transferring and starting. The temperature of its working condition is from -30 °C to 80 °C. The nominal transmission torque is from 6.3 to 16, 000 N·m.



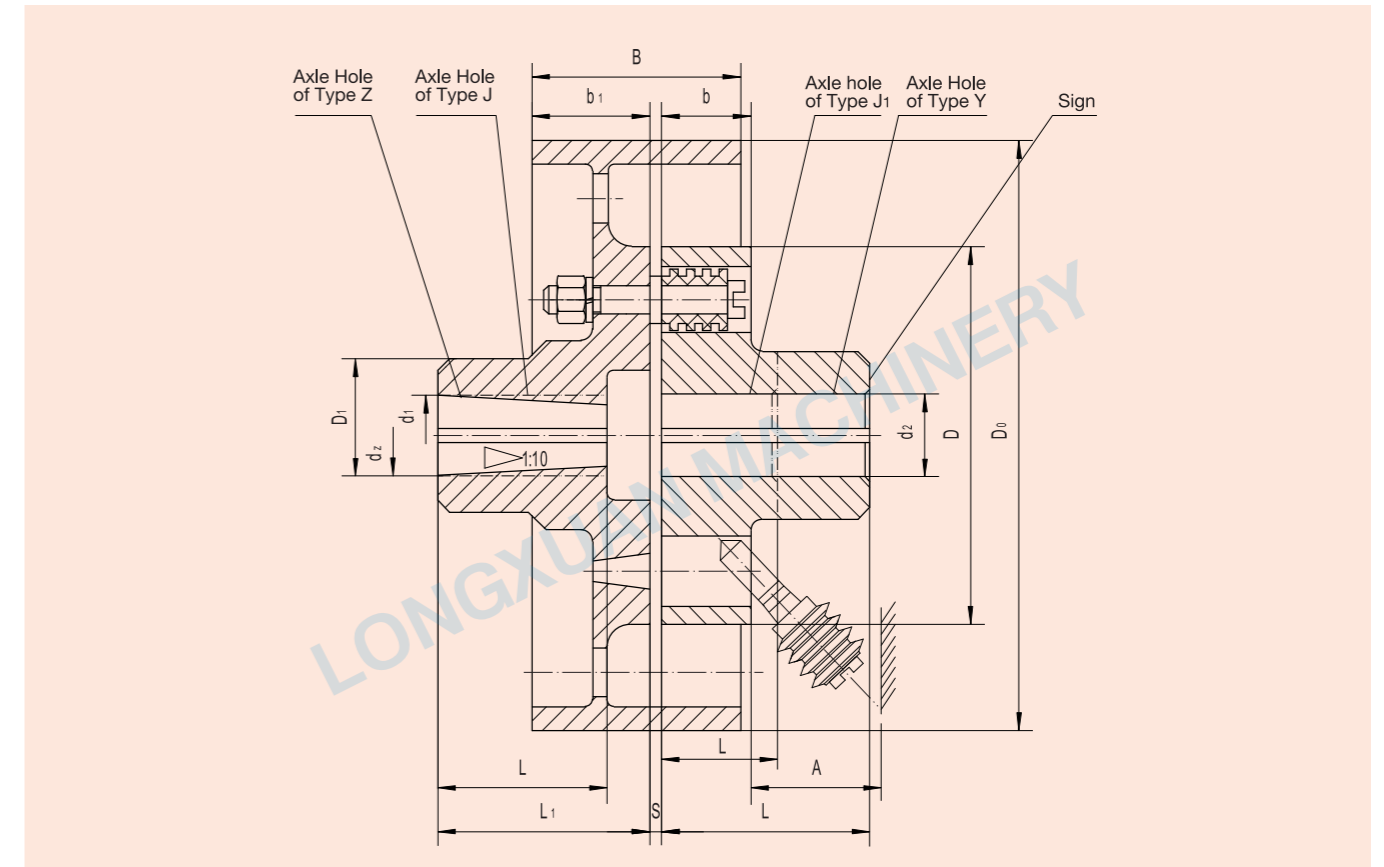
The basic parameters and the main dimensions of Resilient dowel pin coupling of Type TL by JB/ZQ 4729-2006

Model	Nominal torque Tn N·m	Allowable speed [n] r/min	Axle hole diameter d1,d2,dz mm	Axle hole length mm			D mm	D1 mm	b mm	b1 mm	S mm	A mm	Rotational Inertia Kg·m ²	Weight Kg
				Y	J, J1, Z	L								
TL1	6.3	6600	9	20	—	—	71	22	16	10	3	18	0.0004	0.7
			10,11	25	22	25								
			12	32	27	32								
TL2	16	5500	12,14	42	30	42	90	30	23	15	4	35	0.001	1.0
			16	42	30	42								
TL3	31.5	4700	16,18,19	42	30	42	95	35	23	15	4	35	0.002	2.2
			20	52	38	52								
TL4	63	4200	20,22,24	52	38	52	106	42	23	15	4	35	0.004	3.2
TL5	125	3600	25,28	62	44	62	130	56	38	17	5	45	0.011	5.5
			30,32	82	60	82								
TL6	250	3300	32,35,38	112	84	112	160	71	38	17	5	45	0.026	9.6
TL7	500	2800	40	112	84	112	190	80	48	19	6	65	0.06	15.7
			40,42,45	112	84	112								
TL8	710	2400	45,48,50,55	112	84	112	224	95	48	19	6	65	0.13	24.0
TL9	1000	2100	50,55,56	112	84	112	250	110	48	19	6	65	0.20	31.0
			60,63	142	107	142								
TL10	2000	1700	63,65,70,71,75	172	132	172	315	150	58	22	8	80	0.64	60.2
			80,85	172	132	172								
TL11	4000	1350	80,85,90,95	172	132	172	400	190	73	30	10	100	2.06	114.0
			100	172	132	172								
TL12	8000	1100	100,110,120,125	212	167	212	475	220	90	38	12	130	5.00	212.0
			120,125	212	167	212								
TL13	16000	800	130,140,150,	252	202	252	600	280	110	44	14	180	16.00	416.0
			160	302	242	302								

Remarks: 1. The weight and rotational inertia are the approximate value calculated by the minimum diameter and the maximal length of the axle hole.
2. Rotational inertia is the approximate value.
3. Momentary load should be no more two times of the nominal torque Tn.
4. The temperature of its working condition is from -30 °C to 80 °C.

Resilient dowel pin coupling with braking discs of Type TLL

- Resilient dowel pin coupling with braking discs of Type TLL, which is shock-absorbing and has a certain angle compensates for relative offset of the two axis, is widely used. It's convenient to assemble, disassemble, and maintain. It applies to frequently normal-reverse transferring and starting. The temperature of its working condition is from -30 °C to 80 °C. The nominal transmission torque is from 125 to 16, 000 N·m.



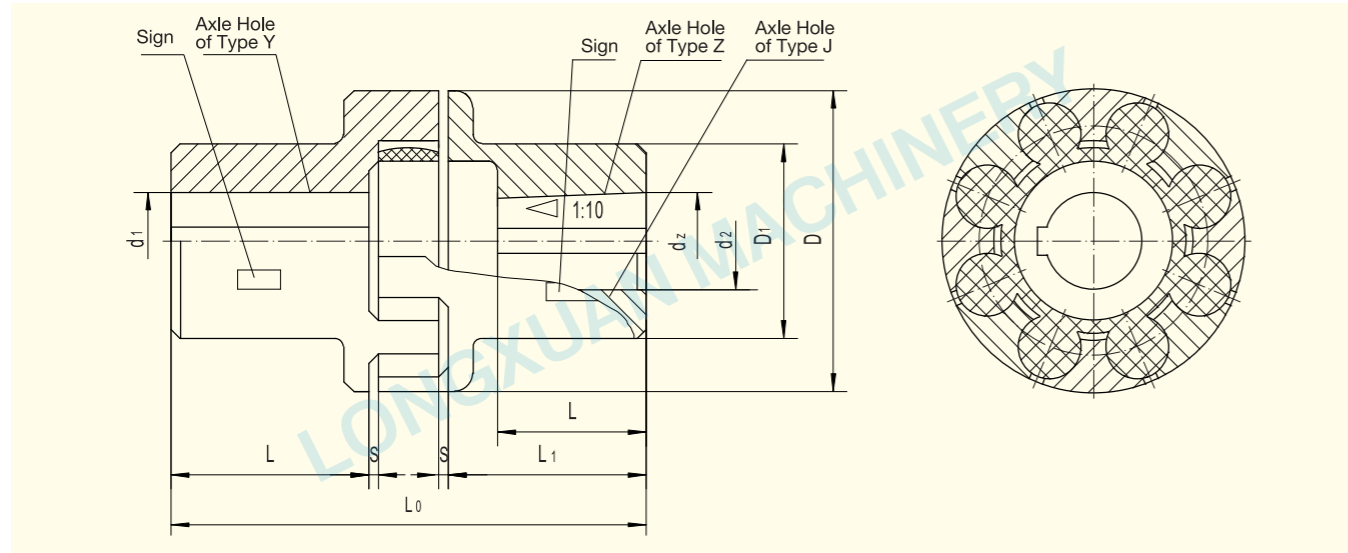
The basic parameters and the main dimensions of Resilient dowel pin coupling with braking discs of Type TLL by JB/ZQ 4729-2006

Model	Nominal torque Tn N·m	Allowable speed [n] r/min	Axle hole diameter d1,d2,dz mm	Axle hole length mm			D0 mm	D mm	D1 mm	b mm	b1 mm	B mm	S mm	A mm	Rotational Inertia Kg·m ²	Weight Kg
				Y	J, J1, Z	L										
TLL1	125	3800	25,28	62	44	62	200	130	56	42	85	5	45	0.05	8.3	
			30,32,35	82	60	82										
TLL2	250	3000	32,35,38	82	60	82	250	160	71	38	62	105	5	45	0.15	15.3
			40,42	112	84	112										
TLL3	500	2400	40,42,45,48	112	84	112	315	190	80	89	132	6	65	0.45	30.0	
TLL4	710		45,48,50,55,56	142	107	142										
		60,63	112	84	112	224	95	48	78	168	8	80	1.26	47		
TLL5	1000	1900	50,55,56	142	107	142	400	315	150	58	102	8	80	1.63	92.6	
			60,63,65,70,71	172	132	172										
TLL6	2000	1500	63,65,70,71,75	172	132	172	500	400	190	73	127	10	100	4.04	172.3	
TLL7	4000	1200	80,85,90,95	212	167	212	630	475	220	90	163	265	12	130	15.00	304.3
			100,110	252	202	252										
TLL8	8000	1000	100,110,120,125	252	202	252	710	600	280	110	174	298	14	180	33.0	576.8
			130	302	242	302										
TLL9	16000	1000	120,125	212	167	212	710	600	280	110	174	298	14	180	33.0	576.8
			130,140,150	252	202	252										
TLL9	16000	1000	160,170	302	242	302	710	600	280	110	174	298	14	180	33.0	576.8
			130,140,150	252	202	252										

Remarks: 1. The weight and rotational inertia are the approximate value calculated by the minimum diameter and the maximal length of the axle hole.
2. Rotational inertia is the approximate value.
3. Momentary load should be no more two times of the nominal torque Tn.
4. The temperature of its working condition is from -30 °C to 80 °C.

Cross resilient coupling of Type ML

- Cross resilient coupling of Type ML is mainly made up with two half couplings with convex pawls and intermediate cross resilient components. When the relative offsets of the two axis occur, the resilient components will do relative deformation to realize auto-compensation.
- It applies to the occasion with frequent start and normal-reverse transfer, high and medium speed, medium torque and high reliability, and so on. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 16 to 25, 000 N·m.



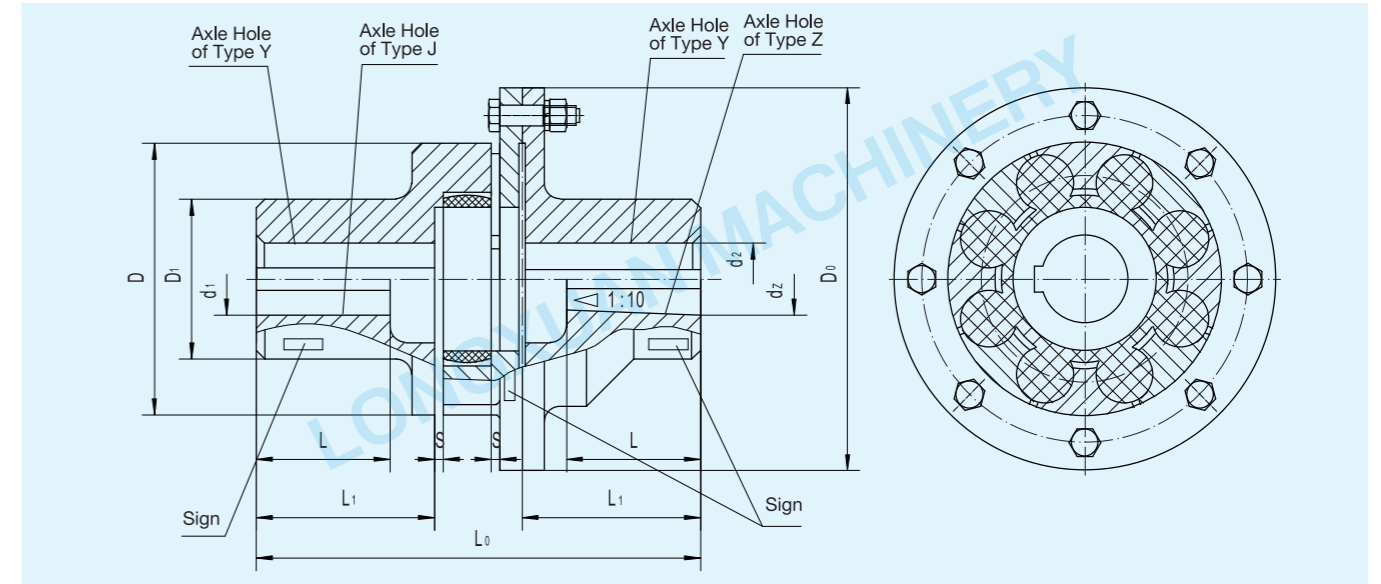
■ The basic parameters and the main dimensions of Cross resilient coupling of Type ML by JB/ZQ 4728-2006

Model	Nominal torque Tn N·m			Allowable speed [n] r/min	Axle hole diameter d1,d2,dz mm	Axle hole length			L0 max mm	D mm	D1 mm	S mm	Resilient piece	Rotational Inertia Kg·m ²	Weight Kg
	Resilient hardness of Type Shor A					Y	J,Z								
	a	b	c			L	L	L1							
ML1	16	25	45	9000	12,14	32	27	32	80	50	40	2	MT1	0.0004	0.66
						42	30	42	100						
						52	38	52	120						
ML2	63	100	200	9000	20,22,24	62	44	62	147	70	50	2.5	MT2	0.0015	1.55
						82	60	82	187						
						82	60	82	187						
ML3	90	140	280	9000	22,24	52	38	52	128	85	60	3	MT3	0.0034	2.5
						62	44	62	148						
						82	60	82	188						
ML4	140	250	400	7300	25,28	62	44	62	151	105	65	3.5	MT4	0.008	4.3
						82	60	82	191						
						112	84	112	251						
ML5	250	400	710	6100	30,32,35,38	82	60	82	197	125	75	4	MT5	0.017	6.2
						112	84	112	257						
						112	84	112	257						
ML6	400	630	1120	5300	35*,38*	82	60	82	203	145	85	4.5	MT6	0.033	8.6
						112	84	112	263						
						112	84	112	263						
ML7	710	1120	2240	4500	45*,48*,50,55	142	107	142	325	170	100	5.5	MT7	0.072	14.0
						112	84	112	272						
						112	84	112	272						
ML8	1120	1800	3550	3800	60,63,65	142	107	142	332	200	120	6.5	MT8	0.157	25.7
						142	107	142	332						
						142	107	142	332						
ML9	1800	2800	5600	3300	60*,63*,65*	142	107	142	334	230	150	7.5	MT9	0.339	41.0
						142	107	142	334						
						142	107	142	334						
ML10	2800	4500	9000	2900	80*,85*,90,95	172	132	172	404	260	180	7.5	MT10	0.763	59.0
						212	167	212	484						
						212	167	212	484						
ML11	4000	6300	12500	2500	80*,85*,90*,95*	172	132	172	411	300	200	8.5	MT11	1.352	87.0
						212	167	212	491						
						212	167	212	491						
ML12	7100	11200	20000	2100	90*,95*	172	132	172	417	360	225	9	MT12	2.854	140
						212	167	212	497						
						252	202	252	577						
ML13	8000	12500	25000	1900	100*,110*,120*	212	167	212	497	400	250	9	MT13	4.378	160
						212	167	212	497						
						252	202	252	577						

Remarks: 1. The Weight in the figure is the maximum weight of the coupling. 2. a, b, c i the figure is the model of the resilient hardness. 3.The diameters marked with * apply to Axle hole dz only.

Single flange cross resilient coupling of Type MLZ

- Single flange cross resilient coupling of Type MLZ is mainly made up with half coupling with convex pawl, a convex pawl with flange, half coupling with flange and intermediate cross resilient components. When the relative offsets of the two axis occur, the resilient components will do relative deformation to realize auto-compensation.
- It applies to the occasion with frequent start and normal-reverse transfer, high and medium speed, medium torque and high reliability, and so on. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 16 to 25, 000 N·m.



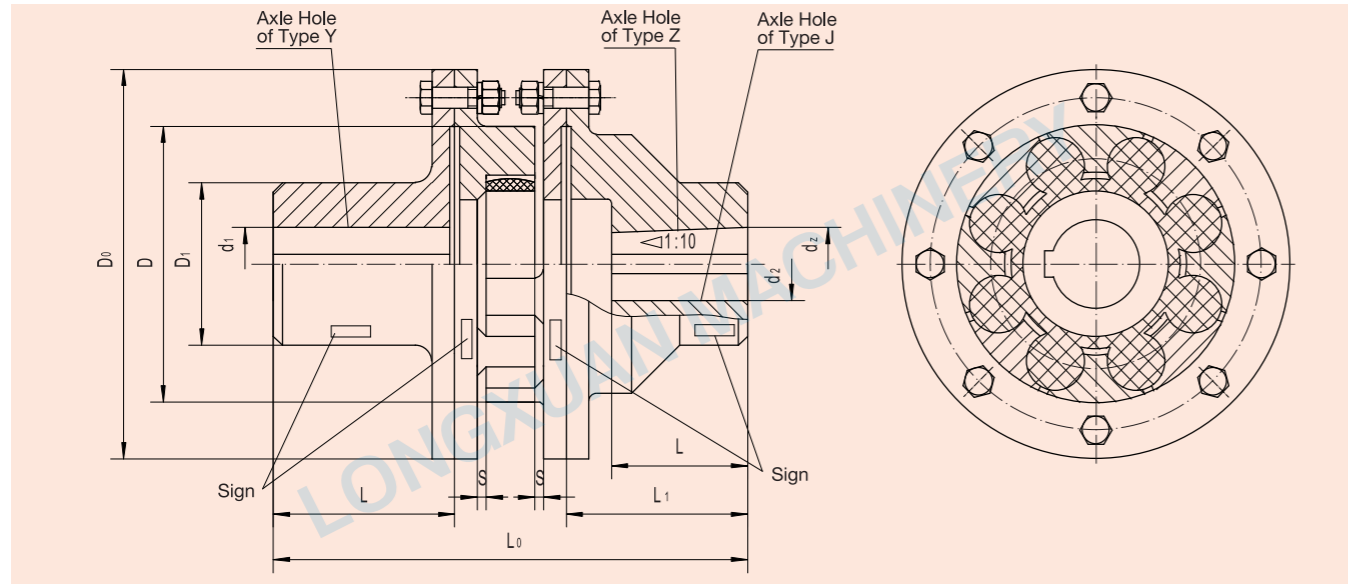
■ The basic parameters and the main dimensions of Single flange cross resilient coupling of Type MLZ by JB/ZQ4728-2006

Model	Nominal torque Tn N·m			Allowable speed [n] r/min	Axle hole diameter d1,d2,dz mm	Axle hole length			L0 max mm	D mm	D0 mm	D1 mm	S mm	Resilient piece	Rotational Inertia Kg·m ²	Weight Kg
	Resilient hardness of Type Shor A					Y	J,Z									
	a	b	c			L	L	L1								
MLZ1	16	25	45	8500	12,14	32	27	32	80	50	90	40	2	MT1	0.002	1.55
						42	30	42	106							
						52	38	52	126							
MLZ2	63	100	200	6900	20,22,24	62	44	62	154	70	110	50	2.5	MT2	0.006	3.15
						82	60	82	194							
						82	60	82	194							
MLZ3	90	140	280	6000	22,24	52	38	52	136	85	125	60	3	MT3	0.013	4.5
						62	44	62	156							
						82	60	82	196							
MLZ4	140	250	400	5000	25,28	62	44	62	162.5	105	150	65	3.5	MT4	0.022	5.5
						82	60	82	202.5							
						112	84	112	262.5							
MLZ5	250	400	710	4100	30,32,35,38	82	60	82	209	125	185	75	4	MT5	0.055	8.5
						112	84	112	269							
						112	84	112	269							
MLZ6	400	630	1120	3600	35,38	82	60	82	216	145	205	85	4.5	MT6	0.085	10.5
						112	84	112	276							
						112	84	112	276							
MLZ7	710	1120	2240	3100	40,42,45	112	84	112	279	170	240	100	5.5	MT7	0.2	18.0
						142	107	142	339							
						142	107	142	339							
MLZ8	1120	1800	3550	2700	45,58,50,55	112	84	112	288	200	270	120	6.5	MT8	0.46	32.0
						142	107	142	348							
						142	107	142	348							
MLZ9	1800	2800	5600	2500	60,63,65	142	107	142	353	230	305	150	7.5	MT9	0.82	45.0
						172	132	172	413							
						172	132	172	413							
MLZ10	2800	4500	9000	2200	70,71,75	142	107	142	368	260	350	180	7.5	MT10	1.68	70.0
						172	132	172	428							
						212	167	212	508							
MLZ11	4000	6300	12500	1900	80,85,90,95	172	132	172	435	300	400	200	8.5	MT11	3.3	102
						212	167	212	515							
						212	167	212	515							
MLZ12	7100	11200	20000	1600	90,95	172	132	172	442	360	460	225	9	MT12	6.8	154
						212	167	212	522							
						252	202	252	602							
MLZ13	8000	12500	25000	1500	100,110,120	212	167	212	522	400	500	250	9	MT13	10.85	205
						212	167	212	522							
						252	202	252	602							

Remarks: 1. The Weight in the figure is the maximum weight of the coupling. 2. a, b, c in the figure are the codes of the resilient hardness.

Double flange cross resilient coupling of Type MLS

- Double flange cross resilient coupling of Type MLS is mainly made up with two convex pawls with flanges, two half couplings with flanges and intermediate cross resilient components. When the relative offsets of the two axis occur, the resilient components will do relative deformation to realize auto-compensation.
- It applies to the occasion with frequent start and normal-reverse transfer, high and medium speed, medium torque and high reliability, and so on. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 16 to 25,000 N·m.



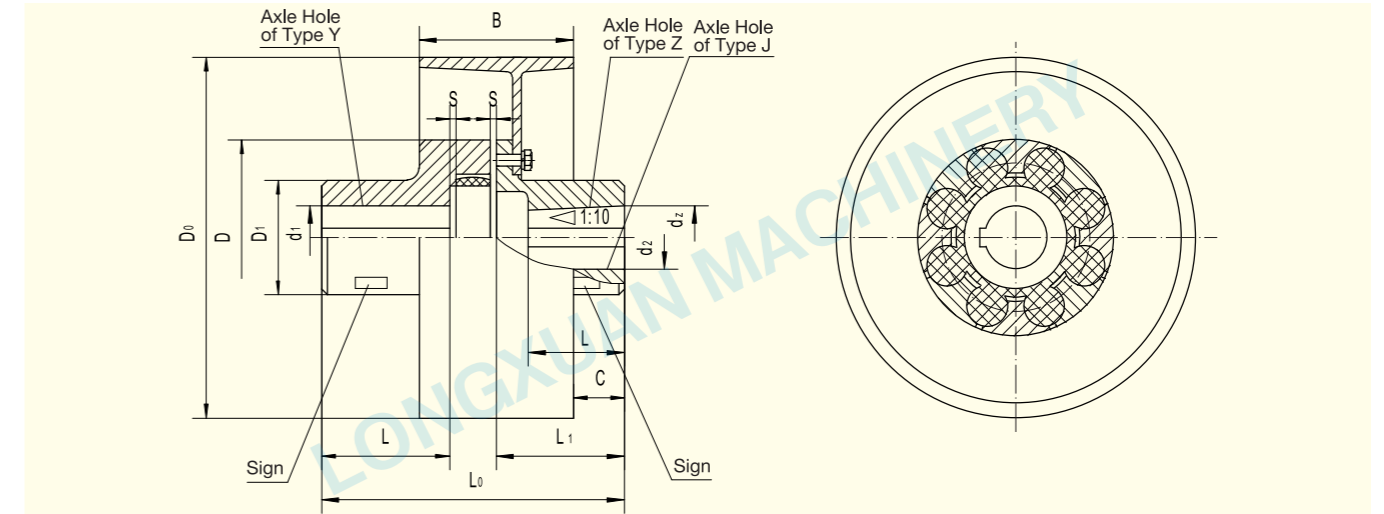
The basic parameters and the main dimensions of Double flange cross resilient coupling of Type MLS by JB/ZQ 4728-2006.

Model	Nominal torque Tn N·m			Allowable speed [n] r/min	Axle hole diameter d1,d2,dz mm	Axle hole length			L0 max mm	D mm	D0 mm	D1 mm	S mm	Resilient piece	Rotational Inertia Kg·m ²	Weight Kg
	Resilient hardness of Type Shor A					Y	J,Z									
	a	b	c			L	L	L1								
MLS1	16	25	45	8500	12,14 16,18,19 20,22,24	32 42	27 30	32 42	92 112	50	90	40	2	MT1-b -c	0.003	2.05
MLS2	63	100	200	6900	20,22,24 25,28 30,32	52 62	38 44	52 62	141 161	70	110	50	2.5	MT2-b -c	0.008	3.75
MLS3	90	140	280	6000	22,24 25,28 30,32,35,38	52 62	38 44	52 62	144 164	85	125	60	3	MT3-b -c	0.014	5.15
MLS4	140	250	400	5000	25,28 30,32,35,38 40,42	62 82	44 60	82 112	204 214	105	150	65	3.5	MT4-b -c	0.024	6.03
MLS5	250	400	710	4100	30,32,35,38 40,42,45,48	82 112	60 84	82 112	221 281	125	185	75	4	MT5-b -c	0.06	9.35
MLS6	400	630	1120	3600	35,38 40,42,45 48,50,55	82 112	60 84	82 112	229 289	145	205	85	4.5	MT6-b -c	0.135	16.7
MLS7	710	1120	2240	3100	45,58,50,55 60,63,65 50,55	142 112	107 84	142 112	353 304	170	240	100	5.5	MT7-b -c	0.275	25.0
MLS8	1120	1800	3550	2700	60,63,65 70,71,75 60,63,65	142	107	142	364	200	270	120	6.5	MT8-b -c	0.533	37.0
MLS9	1800	2800	5600	2500	70,71,75 80,85,90,95 70,71,75	172 142	132 107	172 142	432 392	230	305	150	7.5	MT9-b -c	0.048	52
MLS10	2800	4500	9000	2200	80,85,90,95 100,110	172 212	132 167	172 212	452 532	260	350	180	7.5	MT10-b -c	1.923	80
MLS11	4000	6300	12500	1900	80,85,90,95 100,110,120	172 212	132 167	172 212	459 539	300	400	200	8.5	MT11-b -c	3.725	115
MLS12	7100	11200	20000	1600	90,95 100,110,120 125	172 212	132 167	172 212	467 547	360	460	225	9	MT12-b -c	9.25	210
MLS13	8000	12500	25000	1500	100,110,120 125 130,140	212 252	167 202	212 252	547 627	400	500	250	9	MT13-b -c	13.75	260

Remarks: 1. The Weight in the figure is the maximum weight of the coupling. 2. a, b, c in the figure are the codes of the resilient hardness.

Cross resilient coupling of Type with split braking wheel MLL-I

- Cross resilient coupling of Type with split braking wheel MLL-I is made up with two half couplings with convex pawls, braking wheel, and intermediate cross resilient components. When the relative offsets of the two axis occur, the resilient components will do relative deformation to realize auto-compensation.
- It applies to the occasion with frequent start and normal-reverse transfer, high and medium speed, medium torque and high reliability, and so on. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 140 to 25,000 N·m.



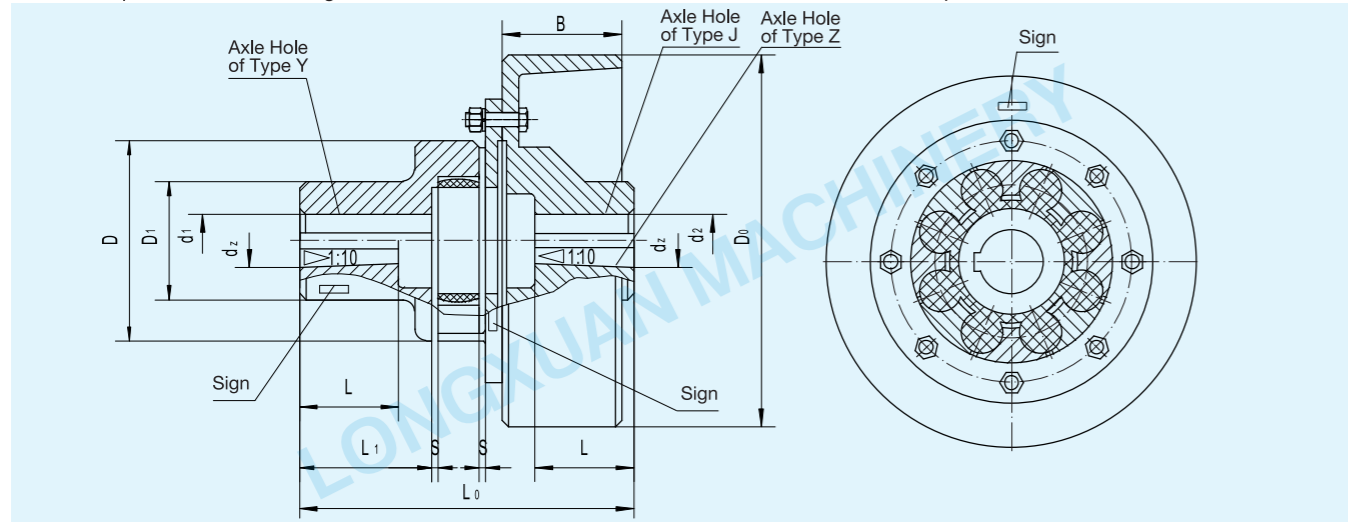
The basic parameters and the main dimensions of Cross resilient coupling of Type with split braking wheel MLL-I by JB/ZQ 4728-2006

Model	Nominal torque Tn N·m			Allowable speed [n] r/min	Axle hole diameter d1,d2,dz mm	Axle hole length			L0 max mm	D0 mm	B mm	D mm	D1 mm	C mm	S mm	Resilient piece	Rotational Inertia Kg·m ²	Weight Kg
	Resilient hardness of Type Shor A					Y	J,Z											
	a	b	c			L	L	L1										
MLL4-I-160	140	250	400	4750	25,28 30,32,35,38 40,42	62 82	44 60	62 82	151 191	160	70	105	65	19.5 39.5 69.5	3.5	MT4-b -c	0.05	8.5
MLL4-I-200				3800	25,28 30,32,35,38 40,42	62 82	44 60	62 82	151 191	200	85	105	65	14.5 34.5 64.5		MT4-b -c	0.095	9.5
MLL5-I-200	250	400	800	3800	30,32,35,38 40,42,45,48	82	60	82	197	200	85	125	75	34 64	4	MT5-b -c	0.144	13.8
MLL6-I-200				3800	35*38* 40*,42*,45 48,50,55	82	60	82	203	200	85	145	85	33 63	4.5	MT6-b -c	0.168	16.7
MLL6-I-250	400	630	1120	3050	35*38* 40*,42*,45 48,50,55	82	60	82	203	250	105	145	85	24 54		MT6-b -c	0.338	21.7
MLL7-I-250	710	1120	2240	3050	45*,48*,50,55 60,63,65	142	107	142	265 325	250	105	170	100	53 83	5.5	MT7-b -c	0.381	26.3
MLL7-I-315	710	1120	2240	2400	45*,48*,50,55 60,63,65	142	107	142	265 325	315	135	170	100	44 74		MT7-b -c	0.875	34.7
MLL8-I-315				2400	50*,55* 60,63,65 70,71,75	142	107	142	272 332	315	135	200	120	42 72	6.5	MT8-b -c	1.173	47.3
MLL8-I-400				1900	50*,55* 60,63,65 70,71,75	142	107	142	272 332	400	170		120	28 58		MT8-b -c	2.45	61.3
MLL9-I-400	1800	2800	5600	1900	60*,63*,65* 70,71,75 80,85,90,95	142	107	142	334 394	400	170	230	150	55 85		MT9-b -c	3.313	84
MLL9-I-500	1800	2800	5600	1500	60*,63*,65* 70,71,75 80,85,90,95	142	107	142	334 394	500	210	230	150	38 68	7.5	MT9-b -c	6.75	108
MLL10-I-500	2800	4500	9000	1500	70*,71*,75* 80*,85,90,95 100,110	142	107	142	344 404	500	210	260	180	33 63		MT10-b -c	8.25	132
MLL11-I-630	4000	6300	12500	1200	80*,85*,90*,95* 100,110,120	172	132	172	411 491	630	265	300	200	43 83	8.5	MT11-b -c	19.55	197
MLL12-I-710	7100	11200	20000	1050	90*,95* 100*,110*,120*,125 130	172	132	172	417 497	710	300	360	225	87 67 107	9	MT12-b -c	26.73	212
MLL13-I-800	8000	12500	25000	950	100*,110* 120*,125* 130*,140*	212	167	212	497 577	800	340	400	250	42 82	9	MT13-b -c	48	294

Remarks: 1. The diameters marked with * can apply to Axle hole of Type Z. 2. The Weight in the figure is the maximum weight of the coupling. 3. a, b, c in the figure are the codes of the resilient hardness.

Cross resilient coupling of Type with integral braking wheel MLL-II

- Cross resilient coupling of Type with split braking wheel MLL-I is made up with one half coupling with convex pawl, one half coupling with braking wheel, and intermediate cross resilient components. When the relative offsets of the two axis occur, the resilient components will do relative deformation to realize auto-compensation.
- It applies to the occasion with frequent start and normal-reverse transfer, high and medium speed, medium torque and high reliability, and so on. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 140 to 25,000 N·m.



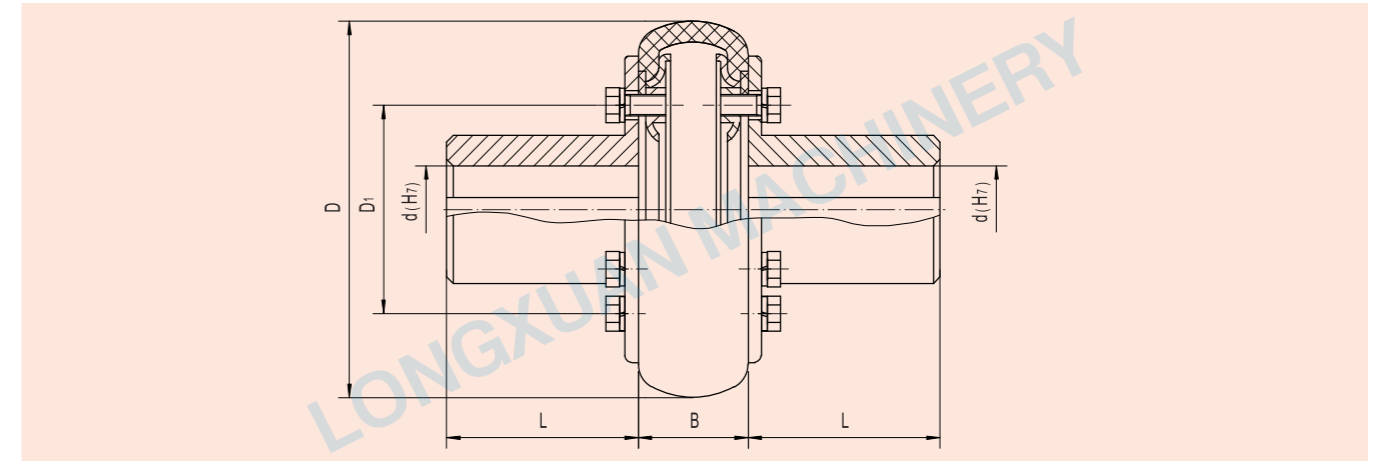
The basic parameters and the main dimensions of Cross resilient coupling of Type with integral braking wheel MLL-II by GB 5272-85

Model	Nominal torque N·m			Allowable speed [n] r/min	Axle hole diameter d1,d2,dz	Axle hole length			L0 mm	D0 mm	B mm	D mm	D1 mm	S mm	Rotational Inertia Kg·m ²	Weight Kg
	Resilient hardness HA					Type Y	Type J,Z									
	≥75	≥85	≥94			L mm	L mm	L1 mm								
MLL4-II-160	140	250	400	4750	25,28	62	44	62	190.5	160	70	105	72	3.5	0.0159	10
					30,32,35,38	82	62	82	210.5							
					40,42	112	84	112	265.5							
MLL4-II-200	140	250	400	3800	25,28	62	44	62	215.5	200	85	105	72	3.5	0.0391	14
					30,32,35,38	82	60	82	235.5							
					40,42	112	84	112	265.5							
MLL5-II-200	250	400	800	3800	30,32,35,38	82	60	82	242	200	85	125	90	4	0.0448	16.5
					40,42,45,48	112	84	112	272							
					35,38	82	66	82	249							
MLL6-II-200	400	630	1200	3800	40,42,45	112	84	112	279	200	85	145	104	4.5	0.0527	20.3
					48,50,55	82	60	82	279							
					35,38	82	60	82	279							
MLL6-II-250	400	630	1200	3050	40,42,45	112	84	112	309	250	105	145	104	4.5	0.1189	25.6
					48,50,55	82	60	82	279							
					35,38	82	60	82	279							
MLL7-II-250	710	1120	2240	3050	45,48,50,55	112	84	112	312	250	105	170	130	5.5	0.1402	31.4
					60,63,65	142	107	142	372							
					45,48,50,55	112	84	112	312							
MLL7-II-315	710	1120	2240	2400	60,63,65	142	107	142	372	315	135	170	130	5.5	0.3666	38.5
					50,55	112	84	112	351							
					60,63,65	142	107	142	372							
MLL8-II-315	1120	1800	3550	2400	60,63,65	142	107	142	416	315	135	200	156	6.5	0.4039	55.5
					70,71,75	142	107	142	416							
					50,55	112	84	112	351							
MLL8-II-400	1120	1800	3550	1900	60,63,65	142	107	142	416	400	170	200	180	7.5	1.0863	75.3
					70,71,75	142	107	142	421							
					80,85,90,95	172	132	172	451							
MLL9-II-500	1800	2800	5600	1500	60*,63*,65*	142	107	142	475	500	210	230	180	7.5	3.0039	138
					70,71,75	142	107	142	475							
					80,85,90,95	172	132	172	505							
MLL10-II-500	2800	4500	9000	1500	70*,71*,75*	142	107	142	490	500	210	260	205	7.5	3.1957	180
					80*,85,90,95	172	132	172	520							
					100,110	212	167	212	560							
MLL11-II-630	4000	6300	12500	1200	80*,85*,90*,95*	172	132	172	580	630	265	300	245	8.5	9.0441	250
					100,110,120	212	167	212	620							
					90*,95*	172	132	172	630							
MLL12-II-710	7100	11200	20000	1050	100*,110*	212	167	212	670	710	300	360	300	9	16.4898	290
					120*,125*	252	202	252	710							
					130	252	202	252	710							
MLL13-II-800	8000	12500	25000	950	100*,110*	212	167	212	710	800	340	400	335	9	37.985	320
					120*,125*	252	202	252	750							
					130*,140*	252	202	252	750							

Remarks: 1. The diameters marked with * can apply to Axle hole of Type Z, the half coupling with braking wheel is out of the limitation. 2. The Weight in the figure is the maximum weight of the coupling. 3. a, b, c in the figure are the codes of the resilient hardness.

Tire coupling of Type UL

- Tire coupling of Type UL is a kind of high resiliency coupling. It has excellent performance of shock absorbing and compensating for the axial relative offsets. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 10 to 25,000 N·m. It applies to the working conditions which are wet, dusty, impacting, vibrative and has frequent start and normal-reverse transfer. It is convenient to assemble and disassemble and needs no lubrication. It's reliable and longlasting.



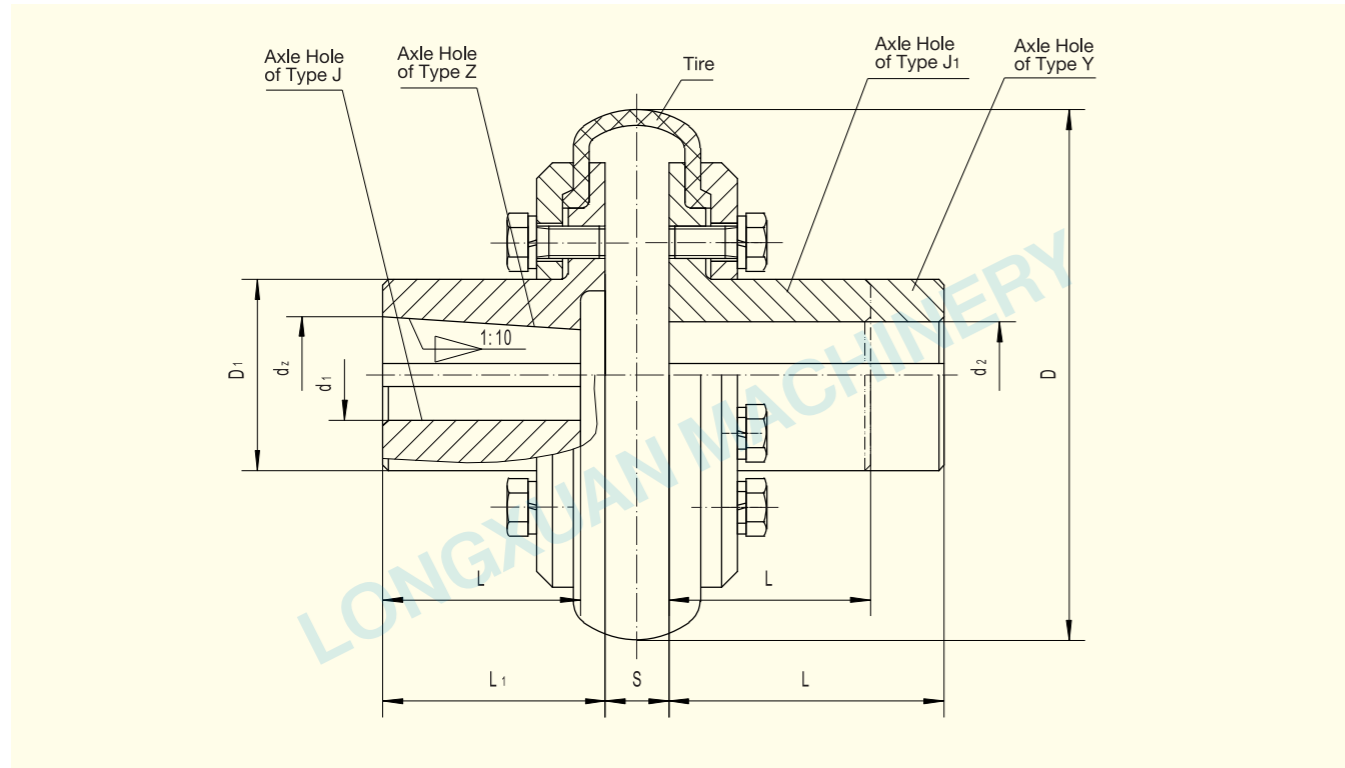
The basic parameters and the main dimensions of Tire coupling of Type UL by GB/T 5844-2002.

Model	Nominal Torque Tn N·m	Momentary maximum torque Tmax	Allowable speed [n] r/min	Axle hole diameter d(H7)	Axle hole length L		D	B	D1	Total weight m Kg	Rotational inertia L Kg·m ²
					Type J,J1	Type Y					
UL1	10	31.5	5000	11	22	35	80	20	42	0.7	0.0003
				12,14	27	27					
				16,18	30	42					
UL2	25	80	5000	14	27	32	100	26	51	1.2	0.0008
				16,18,19	30	42					
				20,22	38	52					
UL3	63	180	4500	18,19	30	42	120	32	62	1.8	0.0022
				20,22,24	38	52					
				25	44	62					
UL4	100	315	4300	20,22,24	38	52	140	38	69	3.0	0.0044
				25,28	44	62					
				30	60	82					
UL5	160	500	4000	24	38	52	160	45	80	4.6	0.0084
				25,28	44	62					
				30,32,35	60	82					
UL6	250	710	3600	28	44	62	180	50	90	7.1	0.0164
				30,32,35,38	60	82					
				40	84	112					
UL7	315	900	3200	32,35,38	60	82	200	56	104	10.9	0.0290
				40,42,45,48	84	112					
				38	60	82					
UL8	400	1250	3000	40,42,45,48,50	84	112	220	63	110	13.0	0.0448
				50	84	112					
				60	107	142					
UL9	630	1800	2800	42,45,48,50,55,56	84	112	250	71	130	20.0	0.0898
				60	107	142					
				55*,56*	84	112					
UL10	800	2240	2400	45*,48*,50,55,56	84	112	280	80	148	30.6	0.1596
				60,63,65,70	107	142					
				50*,55*,56*	84	112					
UL11	1000	2500	2100	60,63,65,70,71,75	107	142	320	90	165	39.0	0.2792
				80,85	132	172					
				55*,56*	84	112					
UL12	1600	4000	2000	60*,63*,65*,70,71,75	107	142	360	100	188	59.0	0.5356
				80,85	132	172					
				75*	107	142					
UL13	2500	6300	1800	63*,65*,70*,71*,75*	107	142	400	110	210	81.0	0.8960
				80,85,90,95	132	172					
				75*	107	142					
UL14	4000	10000	1600	80*,85*,90*,95*	132	172	480	130	254	145	2.2616
				100,110	167	212					
				85*,90*,95*	132	172					
UL15	6300	14000	1200	100*,110*,120*,125*	167	212	560	150	300	222	4.6456
				100*,110*,120*,125*	167	212					
				130,140	202	252					
UL16	10000	20000	1000	120*,125*	167	212	630	180	335	302	8.0924
				130*,140*,150*	202	252					
				160*	242	302					
UL17	16000	31500	900	140*,150*	202	252	750	210	405	561	20.0176
				160*,170*,180*	242	302					
				140*,150*	202	252					
UL18	25000	59000	800	160*,170*,180*	242	302	900	250	490	818	43.0530
				140*,150*	202	252					
				160*,170*,180*	242	302					

Remarks: 1. The diameters marked with * is the axle hole of Type J made allowed by the structure according to GB/T 3852. 2. Axle hole of Type Y is cylindrical. Type J is the cylindrical axle hole with counterbore. Type J1 is the cylindrical axle hole without counterbore.

Tire coupling of Type LLA

- Tire coupling of Type LLA is a kind of high resiliency coupling. It has excellent performance of shock absorbing and compensating for the axial relative offsets. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 10 to 20, 000 N·m. It applies to the working conditions which are wet, dusty, impacting, vibrative and has frequent start and normal-reverse transfer. It is convenient to assemble and disassemble and needs no lubrication. It's reliable and longlasting.



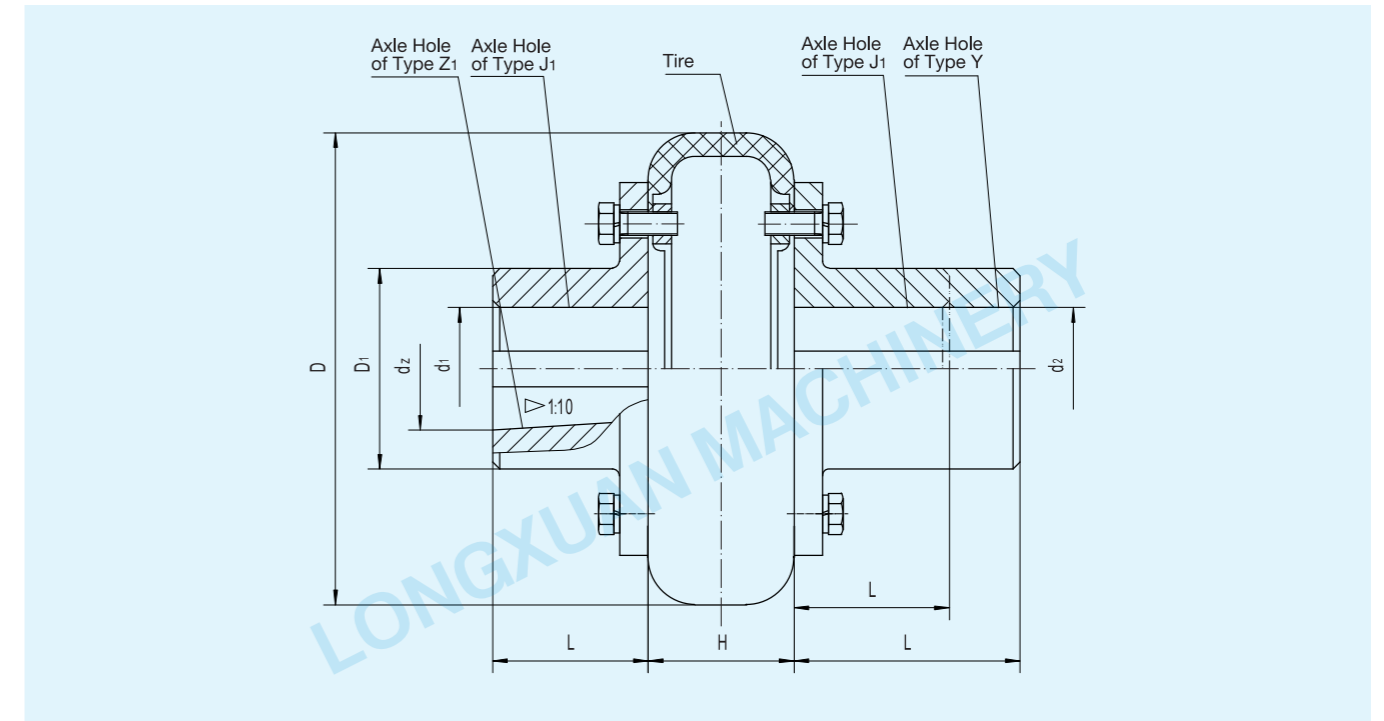
The basic parameters and the main dimensions of Tire coupling of Type LLA by JB/ZQ 4018-97

Coupling Model	Tire Model	Nominal Torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ ,d ₂ ,d _z	Axle hole length			D	D ₁	S	Rotational Inertia Kg·m ²	Weight Kg
					Y	J, J ₁ , Z	L					
					L	L	L ₁					
LLA1	LTA1	10	5000	6,7	16	—	63	20	4	0.0004	0.35	
LLA2	LTA2	20		8,9	20	—						
LLA3	LTA3	80	4000	10,11	25	22	135	48	12	0.022	3.4	
LLA4	LTA4	160		12,14	32	21						—
LLA5	LTA5	315	2800	16,18,19	42	30	210	80	18	0.154	13.5	
LLA6	LTA6	630		20,22,24	52	38						52
LLA7	LTA7	1250	2000	25,28	62	44	310	120	28	0.89	34.8	
LLA8	LTA8	2500		30,32,35,38	82	60						82
LLA9	LTA9	5000	1250	40,42,45,48	112	84	450	190	42	6.74	111.5	
LLA10	LTA10	10000		50,55,56	172	132						172
LLA11	LTA11	20000	800	60,63,65,70,71,75	212	167	560	230	52	17.55	191.3	
				80,85,90,95	252	202						252
				100,110,120,125	302	242	700	280	70	54.1	373	

Remarks: 1.The axle of the two half coupling can be Type Y, Type J, Type J₁ and Type Z if needed. But both ends can not be Type Z and type J at the same time.
2. The codes of tire materials are P(normal sizing material), Y(oil proof sizing material), R(heat proof sizing material) and S(acid and alkali-resistant sizing material)
3. The tires can be ordered alone.
4. The temperature of its working condition is from -20 °C to 80 °C.

Tire coupling of Type LLB

- Tire coupling of Type LLB is a kind of high resiliency coupling. It has excellent performance of shock absorbing and compensating for the axial relative offsets. The temperature of its working condition is from -20 °C to 80 °C. The nominal transmission torque is from 10 to 20, 000 N·m. It applies to the working conditions which are wet, dusty, impacting, vibrative and has frequent start and normal-reverse transfer. It is convenient to assemble and disassemble and needs no lubrication. It's reliable and longlasting.



The basic parameters and the main dimensions of Tire coupling of Type LLB by JB/ZQ 4018-97

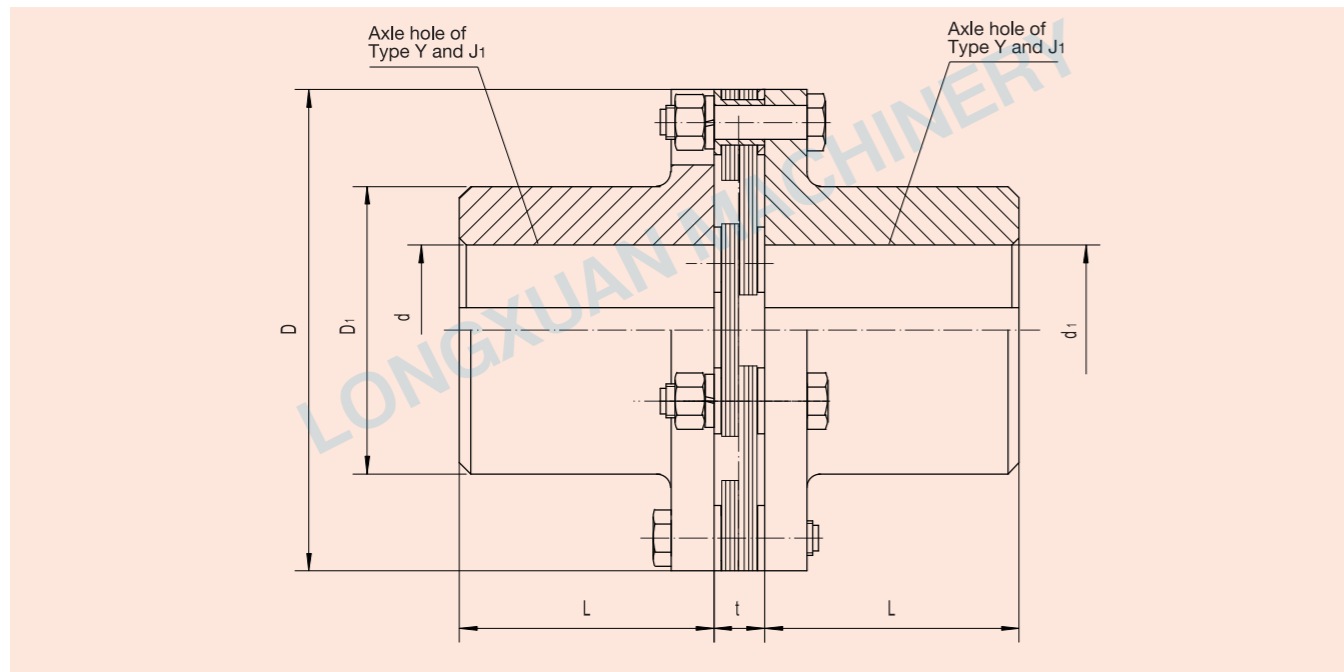
Coupling Model	Tire Model	Nominal Torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ ,d ₂ ,d _z	Axle hole length		D	D ₁	H	Rotational Inertia Kg·m ²	Weight Kg
					Y	J ₁ , Z ₁					
					L	L					
LLB1	LTB1	10	5000	6,7	16	—	63	20	26	0.0003	0.4
LLB2	LTB2	50		8,9	20	—					
LLB3	LTB3	100	4500	10,11	25	—	100	36	32	0.0035	1.5
LLB4	LTB4	160		12,14	32	27					
LLB5	LTB5	224	4000	16,18,19	42	30	160	60	51	0.028	5
LLB6	LTB6	315		20,22,24	52	38					
LLB7	LTB7	500	3200	25,28	62	44	220	85	68	0.15	13
LLB8	LTB8	800		30,32,35	82	60					
LLB9	LTB9	1250	2200	25,28	62	44	310	120	106	0.75	35
LLB10	LTB10	2500		30,32,35,38	82	60					
LLB11	LTB11	5000	1600	30,32,35,38	112	84	400	150	124	2.2	69
LLB12	LTB12	10000		40,42,45	172	132					
LLB13	LTB13	20000	1000	40,42,45,48	212	167	560	239	172	14	190
				50,55,56	252	202					
				60,63,65	302	242	700	318	220	38	340

Remarks: 1.The axle of the two half coupling can be Type Y, Type J₁ and Type Z₁ if needed. But both ends can not be Type Z₁ at the same time.
2.The temperature of its working condition is from -20 °C to 80 °C.

Diaphragm coupling for heavy machinery of Type JZM



- Diaphragm coupling for heavy machinery of Type JZM is made up with several sets of diaphragms (thin stainless steel plate) connecting with two couplings by interlaced bolts. Each set is formed by stacking up the diaphragms. The diaphragms has connecting rods type and unitary type with different shapes.
- Diaphragm coupling uses the resilient deformation to compensate the relative displacement of the two couplings connected. It's a high efficiency resilient metal component flexible coupling. It needs no lubrication, and has compact structure, high intensity and long working life. Without rotating clearance, it is unaffected by temperature and greasy dirt. It has the characteristics of acidproof, alkali-resisting and anti-corrosion and is suitable for the axial transmission which works in high temperature environment where there is oil, water and aggressive medium.
It is widely used in the axial transmission of all kinds of machinery, such as water pump (especially high-power chemical pump), draught fan, compressor, hydraulic machinery, petroleum machinery , printing machinery, textile machinery, chemical machinery, mining machinery, metallurgical machinery, aircraft machinery (helicopter), high speed drive system of naval craft, and so on. By dynamic balance, it is now widely used in high speed driving axis.
- Diaphragm coupling for heavy machinery of Type JZM has the characteristics of high mechanic strength, large loading capacity, light weight, small size, high transmission efficiency and precision, long working life, no noise, acidproof, alkali-resisting, anti-corrosion, high reliability and convenient to assemble and disassemble. It does no relative slip and needs no lubrication. It can works in high and low temperature condition where there is oil, water and aggressive medium. It is also used for medium and high speed, large torque axial transmission and those axial transmission whose load fluctuation is small. It has an excellent universal property.



The basic parameters and the main dimensions of Diaphragm coupling for heavy machinery of Type JZM by JB/ZQ 4717-2006

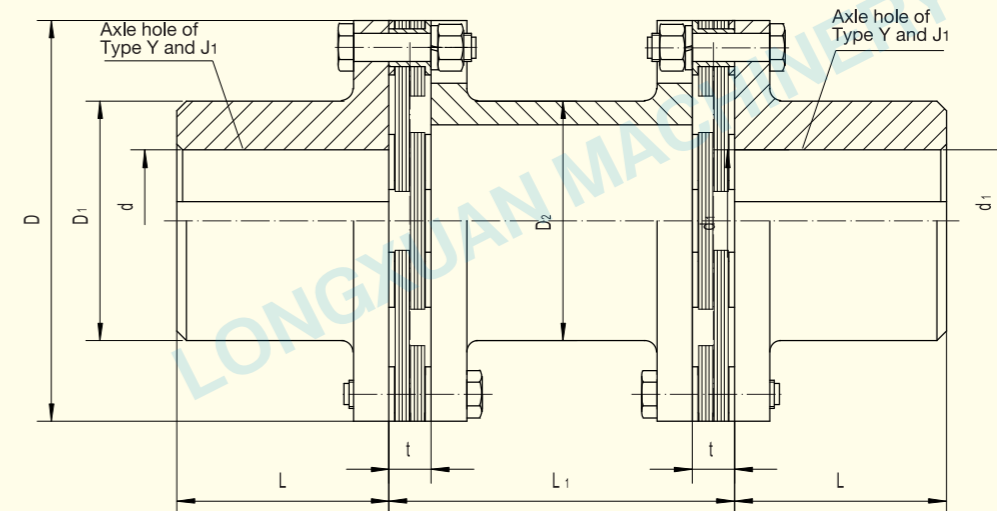
Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d, d ₁ mm	Axle hole length L mm		D mm	D ₁ mm	t mm	Torsional rigidity ×10 ⁸ N·m/rad	Rotational Inertia Kg·m ²	Weight Kg		
				Type J1	Type Y								
JZM1	40	10700	14	27	32	80	39	8±0.2	0.37	0.0024	1.27		
			16, 18, 19	30	42							0.0024	1.27
			20, 22, 24	38	52							0.0024	1.27
			25, 28	44	62							0.0026	1.37
JZM2	63	9300	20, 22, 24	38	52	92	53	8±0.2	0.45	0.00534	1.96		
			25, 28	44	62					0.006	2.2		
			30, 32, 35, 38	60	82					0.0073	2.65		
JZM3	100	8400	25, 28	44	62	102	63	8±0.2	0.56	0.0093	2.65		
			30, 32, 35, 38	60	82					0.012	3.6		
			40, 42, 45	84	112					0.013	4.8		
JZM4	250	6700	30, 32, 35, 38	60	82	128	77	11±0.3	0.81	0.032	5.88		
			40, 42, 45, 48, 50, 55	84	112					0.042	7.64		
JZM5	500	5900	35, 38	60	82	145	91	11±0.3	1.2	0.042	5.88		
			40, 42, 45, 48, 50, 55, 56	84	112					0.055	7.64		
			60, 63, 65	107	142					0.067	9.4		

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d, d ₁ mm	Axle hole length L mm		D mm	D ₁ mm	t mm	Torsional rigidity ×10 ⁸ N·m/rad	Rotational Inertia Kg·m ²	Weight Kg
				Type J1	Type Y						
JZM6	800	5100	40, 42, 45, 48, 50, 55, 56	84	112	168	105	14±0.3	1.42	0.16	16.66
			60, 63, 65, 70, 71, 75	107	142					0.165	17.15
JZM7	1000	4750	45, 48, 50, 55, 56	84	112	180	112	15±0.4	1.9	0.185	16.95
			60, 63, 65, 70, 71, 75	107	142					0.225	20.58
			80	132	172					0.27	24.5
JZM8	1600	4300	50, 55, 56	84	112	200	120	15±0.4	2.35	0.27	20.78
			60, 63, 65, 70, 71, 75	107	142					0.33	25.48
			80, 85	132	172					0.387	29.4
JZM9	2000	4200	55, 56	84	112	205	120	20±0.4	2.7	0.29	21.56
			60, 63, 65, 70, 71, 75	107	142					0.35	25.87
			80, 85, 90	132	172					0.41	30.38
JZM10	2500	4000	55, 56	84	112	215	128	20±0.4	3.02	0.36	24.2
			60, 63, 65, 70, 71, 75	107	142					0.43	28.8
			80, 85, 90	132	172					0.51	33.9
JZM11	3150	3650	60, 63, 65, 70, 71, 75	107	142	235	132	23±0.5	3.46	0.61	35.28
			80, 85, 90, 95	132	172					0.70	40.18
JZM12	4000	3400	60, 63, 65, 70, 71, 75	107	142	250	145	23±0.5	3.67	0.81	40.47
			80, 85, 90, 95	132	172					0.94	46.9
			100	167	212					1.13	55.86
JZM13	6300	3200	63, 65, 70, 71, 75	107	142	270	155	23±0.5	5.2	1.17	46
			80, 85, 90, 95	132	172					1.35	53
			100, 110	167	212					1.60	63
JZM14	12500	2850	65, 70, 71, 75	107	142	300	162	27±0.6	7.8	1.55	65
			80, 85, 90, 95	132	172					1.79	74
			100, 110, 120	167	212					2.12	87
JZM15	16000	2700	70, 71, 75	107	142	320	176	27±0.6	8.43	2.06	65
			80, 85, 90, 95	132	172					2.37	74
			100, 110, 120, 125	167	212					2.81	87
JZM16	20000	2450	75	107	142	350	186	32±0.7	10.23	3.09	84
			80, 85, 90, 95	132	172					3.50	95
			100, 110, 120, 125	167	212					3.84	110
			130	202	252					4.67	124
JZM17	25000	2300	80, 85, 90, 95	132	172	370	203	32±0.7	10.97	4.61	109
			100, 110, 120, 125	167	212					5.35	126
			130, 140, 150	202	252					6.14	144
			90, 95	132	172					6.67	131
JZM18	31500	2150	100, 110, 120, 125	167	212	400	230	32±0.7	13.07	7.87	154
			130, 140, 150	202	252					9.11	177
			160	242	302					10.45	202
			100, 110, 120, 125	167	212					11.59	193
JZM19	40000	1950	130, 140, 150	202	252	440	245	38±0.9	14.26	13.21	219
			160, 170, 180	242	302					15.08	248
			110, 120, 125	167	212					14.12	212
JZM20	45000	1850	130, 140, 150	202	252	460	260	38±0.9	22.13	16.15	241
			160, 170, 180	242	302					18.46	274
			190	282	352					20.77	307
JZM21	50000	1800	120, 125	167	212	480	280	38±0.9	23.70	17.57	238
			130, 140, 150	202	252					20.14	271
			160, 170, 180	242	302					23.13	310
			190, 200	282	352					26.09	348
JZM22	56000	1700	130, 140, 150	202	252	500	295	38±0.9	24.6	24.16	297
			160, 170, 180	242	302					27.74	340
			190, 200, 220	282	352					31.35	382

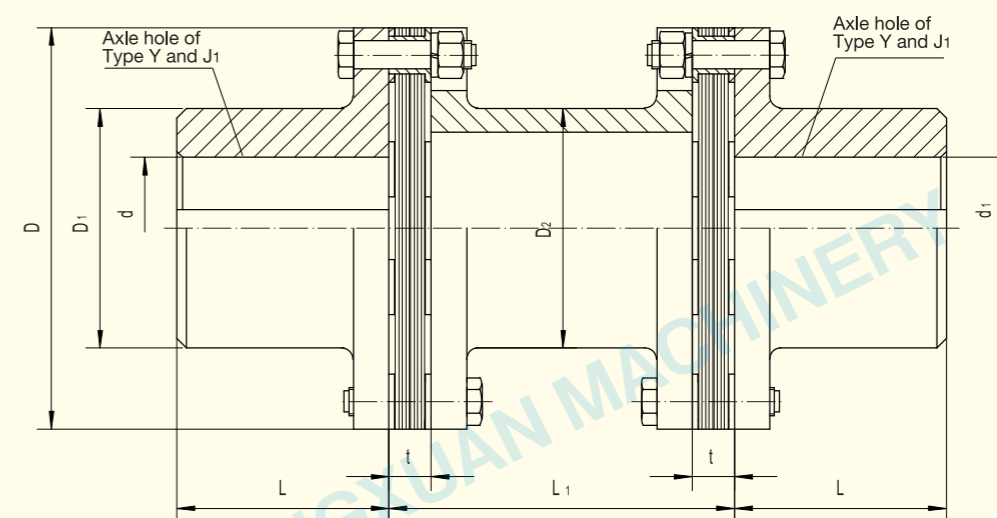
Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d, d ₁ mm	Axle hole length L mm		D mm	D ₁ mm	t mm	Torsional rigidity x10 ⁶ N·m/rad	Rotational Inertia Kg·m ²	Weight Kg
				Type J ₁	Type Y						
JZM23	63000	1600	140,150	202	252	540	310	44±1	29.71	33.07	357
			160,170,180	242	302					37.66	405
			190,200,220	282	352					42.19	451
JZM24	80000	1450	150	202	252	600	335	50±1.2	32.64	50.74	455
			160,170,180	242	302					57.22	510
			190,200,220	282	352					63.64	565
			240	330	410					71.45	631
JZM25	100000	1400	160,170,180	242	302	620	350	50±1.2	37.69	66.17	547
			190,200,220	282	352					73.78	607
			240,250	330	410					82.85	679
JZM26	125000	1300	180	242	302	660	385	50±1.2	50.43	89.33	638
			190,200,220	282	352					99.88	711
			240,250,260	330	410					112.65	798
			280	380	470					121.85	889
JZM27	160000	1200	190,200,220	282	352	720	410	60±1.4	71.51	140.99	862
			240,250,260	330	410					157.81	960
			280,300	380	470					175.4	1063
JZM28	200000	1150	220	282	352	740	420	60±1.4	93.37	156.16	903
			240,250,260	330	410					174.95	1007
			280,300	380	470					194.38	1114
JZM29	250000	1100	240,250,260	330	410	770	450	60±1.4	114.53	215.5	1125
			280,300,320	380	470					240.07	1248
JZM30	315000	1050	250,260	330	410	820	490	60±1.4	130.76	287.2	1301
			280,300,320	380	470					320.96	1449
			340	450	550					367.91	1655

Remarks: 1. In the figure, the rotational inertia and the weight are calculated by the axle hole length of Type J₁ in each model, including axial extension.
2. The temperature of its working condition is from -20 °C to 250 °C.

- Diaphragm coupling for heavy machinery of Type JZMJ is made up with several sets of diaphragms (thin stainless steel plate) connecting with two couplings by interlaced bolts. Each set is formed by stacking up the diaphragms. The diaphragms has connecting rods type and unitary type with different shapes.
- Diaphragm coupling uses the resilient deformation to compensate the relative displacement of the two couplings connected. It's a high efficiency resilient metal component flexible coupling. It needs no lubrication, and has compact structure, high intensity and long working life. Without rotating clearance, it is unaffected by temperature and greasy dirt. It has the characteristics of acidproof, alkali-resisting and anti-corrosion and is suitable for the axial transmission which works in high temperature environment where there is oil, water and aggressive medium.
- It is widely used in the axial transmission of all kinds of machinery, such as water pump (especially high-power chemical pump), draught fan, compressor, hydraulic machinery, petroleum machinery , printing machinery, textile machinery, chemical machinery, mining machinery, metallurgical machinery, aircraft machinery (helicopter), high speed drive system of naval craft, and so on. By dynamic balance, it is now widely used in high speed driving axis.
- Diaphragm coupling for heavy machinery of Type JZMJ has the characteristics of high mechanic strength, large loading capacity, light weight, small size, high transmission efficiency and precision, long working life, no noise, acidproof, alkali-resisting, anti-corrosion, high reliability and convenient to assemble and disassemble. It does no relative slip and needs no lubrication. It can works in high and low temperature condition where there is oil, water and aggressive medium. It is also used for medium and high speed, large torque axial transmission and those axial transmission whose load fluctuation is small. It has an excellent universal property.



Applies to Type JZMJ1 to JZMJ19



Applies to Type JZMJ30 to JZMJ31

■ The basic parameters and the main dimensions of Diaphragm coupling for heavy machinery of Type JZMJ by JB/ZQ 4717-2006

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d, d ₁ mm	Axle hole length L mm		D mm	D ₁ mm	D ₂ mm	L _{1min} mm	t mm	Rotational Inertia Kg·m ²	Weight Kg	
				Type J ₁	Type Y							When L ₁ is minimum	Per meter increases
JZMJ1	63	9300	20,22,24	38	52	92	53	60	44	8±0.2	0.010	3.7	22.79
			25,28	44	62								
			30,32,35,38	60	82								
JZMJ2	100	8400	25,28	44	62	102	63	72	49	8±0.2	0.018	6.3	32
			30,32,35,38	60	82								
			40,42,45	84	112								
JZMJ3	250	6700	30,32,35,38	60	82	128	77	87	60	11±0.3	0.056	9.14	46
			40,42,45,48,50,55	84	112								
JZMJ4	500	5900	35,38	60	82	145	91	102	70	11±0.3	0.095	13.63	64
			40,42,45,48,50,55,56	84	112								
			60,63,65	107	142								
JZMJ5	800	5100	40,42,45,48,50,55,56	84	112	168	105	117	83	14±0.3	0.219	23.35	84
			60,63,65,70,71,75	107	142								
JZMJ6	1000	4750	45,48,50,55,56	84	112	180	112	124	86	15±0.4	0.35	32.28	94
			60,63,65,70,71,75	107	142								
			80	132	172								
JZMJ7	1600	4300	50,55,56	84	112	200	120	134	86	15±0.4	0.51	39.07	110
			60,63,65,70,71,75	107	142								
			80,85	132	172								
JZMJ8	2000	4200	55,56	84	112	205	120	135	91	20±0.4	0.53	39.86	112
			60,63,65,70,71,75	107	142								
			80,85	132	172								
JZMJ9	2500	4000	55,56	84	112	215	128	145	101	20±0.4	0.68	45.78	129
			60,63,65,70,71,75	107	142								
			80,85,90	132	172								
JZMJ10	3150	3650	60,63,65,70,71,75	107	142	235	132	151	109	23±0.5	0.97	56.13	140
			80,85,90,95	132	172								
JZMJ11	4000	3400	60,63,65,70,71,75	107	142	250	145	164	109	23±0.5	1.48	74.09	165
			80,85,90,95	132	172								
			100	167	212								
JZMJ12	6300	3200	60,63,65,70,71,75	107	142	270	155	184	119	23±0.5	2.13	87.65	207
			80,85,90,95	132	172								
			100,110	167	212								
JZMJ13	12500	2850	65,70,71,75	107	142	300	162	194	128	27±0.6	2.93	106.23	231
			80,85,90,95	132	172								
			100,110,120	167	212								
JZMJ14	16000	2700	70,71,75	107	142	320	176	213	138	27±0.6	3.98	125.23	278
			80,85,90,95	132	172								
			100,110,120,125	167	212								
JZMJ15	20000	2450	75	107	142	350	186	215	153	32±0.7	6.44	173.52	283
			80,85,90,95	132	172								
			100,110,120,125	167	212								
			130	202	252								
JZMJ16	25000	2300	80,85,90,95	132	172	370	203	235	158	32±0.7	8.48	200.88	338
			100,110,120,125	167	212								
			130,140,150	202	252								
JZMJ17	31500	2150	90,95	132	172	400	230	266	178	32±0.7	14.2	279.61	433
			100,110,120,125	167	212								
			130,140,150	202	252								
JZMJ18	40000	1950	100,110,120,125	167	212	440	245	280	190	38±0.9	20.73	345.53	480
			130,140,150	202	252								
			160,170,180	242	302								

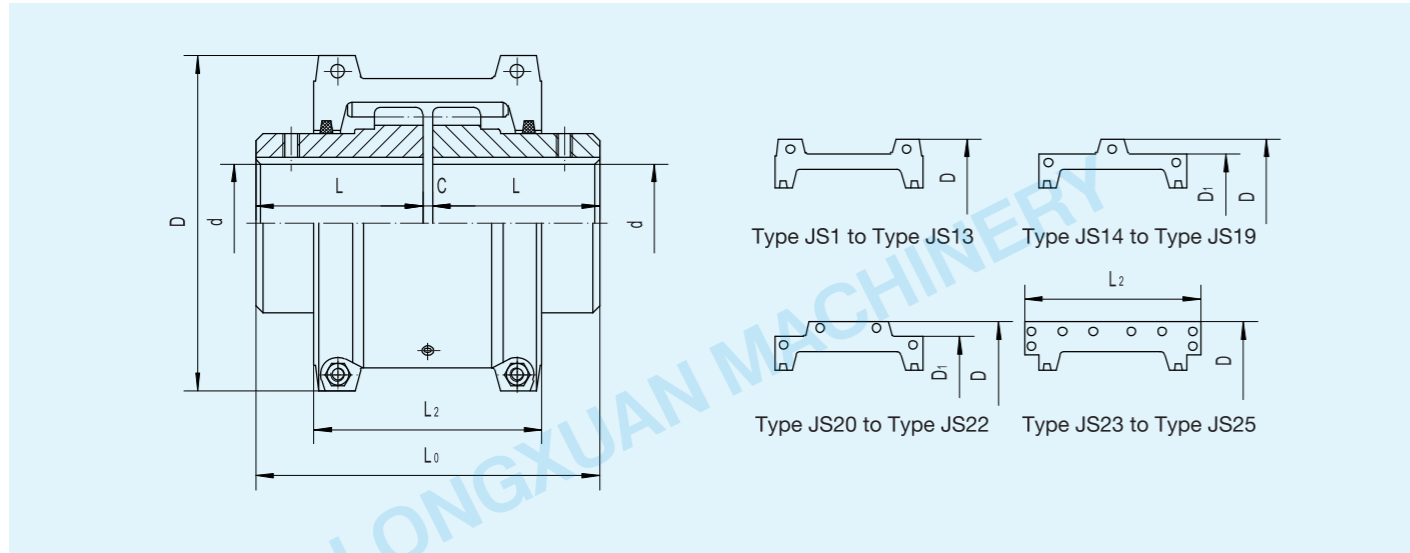
Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d, d ₁ mm	Axle hole length L mm		D mm	D ₁ mm	D ₂ mm	L _{1min} mm	t mm	Rotational Inertia Kg·m ²	Weight Kg	
				Type J ₁	Type Y							When L ₁ is minimum	Per meter increases
JZMJ19	45000	1850	100,110,120,125	167	212	460	260	300	200	38±0.9	28.56	421	551
			130,140,150	202	252								
			160,170,180	242	302								
			190	282	352								
JZMJ20	50000	1800	120,125	167	212	480	280	320	215	38±0.9	35.52	482.6	628
			130,140,150	202	252								
			160,170,180	242	302								
			190,200	282	352								
JZMJ21	56000	1700	120,125	167	212	500	295	336	225	38±0.9	43.05	536	692
			130,140,150	202	252								
			160,170,180	242	302								
			190,200,220	282	352								
JZMJ22	63000	1600	140,150	202	252	540	310	360	236	44±1	58.99	641	794
			160,170,180	242	302								
JZMJ23	80000	1450	190,200,220	282	352	600	335	385	257	50±1.2	98.45	880	908
			140,150	202	252								
			160,170,180	242	302								
JZMJ24	100000	1400	190,200,220	282	352	620	350	408	272	50±1.2	116.15	964	1020
			240,250	330	410								
			180	242	302								
			190,200,220	282	352								
JZMJ25	125000	1300	180	242	302	660	385	445	292	50±1.2	163.85	1204	1251
			240,250,260	330	410								
			280	380	470								
			190,200,220	282	352								
JZMJ26	160000	1200	180	242	302	720	410	485	317	60±1.4	245.9	1507	1441
			190,200,220	282	352								
			240,250,260	330	410								
			280,300	380	470								
JZMJ27	200000	1150	220	282	352	740	420	503	322	60±1.4	275.08	1594	1550
			240,250,260	330	410								
			280,300	380	470								
JZMJ28	250000	1100	240,250,260	330	410	770	450	530	342	60±1.4	342.37	1807	1721
			280,300	380	470								
JZMJ29	315000	1050	250,260	330	410	820	490	559	372	60±1.4	514.91	2358	2025
			280,300,320	380	470								
			340	450	550								
JZMJ30	500000	760	280,300,320	380	470	875	520	575	419	50±1.6	628.63	2507	1915
			340,360	450	550								
			300,320	380	470								
JZMJ31	630000	715	340,360,380	450	550	935	560	610	464	60±1.9	980.83	3391	2280
			400	540	650								
			320	380	470								
JZMJ32	800000	650	340,360,380	450	550	1030	600	622	494	60±1.9	1368	3697	2370
			400,420	540	650								
			360,380	450	550								
JZMJ33	1000000	620	400,420,440,450,460	540	650	1080	660	660	510	66±2.2	1689	4450	2669
			480,500	540	650								
JZMJ34	1250000	576	400,420,440,450,460	540	650	1160	710	750	565	70±2.3	2645	5877	3446
			480,500	540	650								
JZMJ35	1600000	520	440,450,460,480,500	540	650	1290	820	820	620	82±2.6	4775	8550	4120
			530,560	680	800								
JZMJ36	2000000	475	480,500	540	650	1410	900	900	685	92±2.8	7620	11211	4962
			530,560,600	680	800								

Remarks: 1. In the figure, the rotational inertia and the weight are calculated by the axle hole length of Type J₁ in each model, including axial extension.
2. The temperature of its working condition is from -20 °C to 250 °C.

Bibby coupling of Type JS



• Bibby coupling of Type JS is metal flexible coupling with advanced structure. It uses a serpentine spring leaf to embed into the alveoluses of the two half couplings to realize the connection of the prime motor and the working machine. Because of the special property of the reed, covibration between the prime motor and the working machine is avoid to a great extent. Its working life is much longer than that of nonmetal component coupling. Moreover, Bibby coupling has a simple structure and high efficiency of 99%. It's reliable, convenient to assemble and disassemble, and allows a reasonable installing deviation. It is used to connect the medium and high efficiency transmission axis of the two coaxial cables. It has a certain compensation for the relative deviation of the two axis to absorb the shock and buffer. The temperature of its working condition is from -30 °C to 150 °C. The nominal transmission torque is from 145 to 800, 000 N·m.



The basic parameters and the main dimensions of Bibby coupling of Type JS by JB/T 8869-2000

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d mm	Axle hole length L mm	Total length L ₀ mm	L ₂ mm	D mm	D ₁ mm	Clearance C mm	Weight m Kg	Rotational Inertia Kg·m ²	Lubricant oil Kg		
JS1	45	4500	18,19	47	97	66	95	—	3	1.91	0.0014	0.027		
			20,22,24											
			25,28											
JS2	140		22,24			68	105					2.59	0.0022	0.041
			25,28											
			30,32,35											
JS3	224		25,28	50	103	70	115					3.36	0.0033	0.054
			30,32,35,38											
			40,42											
JS4	400		32,35,38	60	123	80	130					5.45	0.0073	0.068
			40,42,45,48,50											
JS5	630	4350	40,42,45,48,50,55,56	63	129	92	150					7.26	0.0119	0.086
JS6	900	4125	48,50,55,56	76	155	95	160					10.44	0.0185	0.113
			60,63,65											
JS7	1800	3600	55,56	89	181	116	190			17.70	0.0451	0.172		
			60,63,65,70,71,75											
			80											
JS8	3150		65,70,71,75	98	199	122	210			25.42	0.0787	0.254		
			80,85,90,95											
JS9	5600	2440	75,	120	245	155	250	—	5	42.22	0.1780	0.426		
		80,85,90,95												
		100,110												
JS10	8000	2250	85,90,95	127	259	162	270					54.45	0.2700	0.508
			100,110,120											
JS11	12500	2025	90,95	149	304	192	310				6	81.27	0.5140	0.735
		100,110,120,125												
		130,140												
JS12	18000	1800	110,120,125	162	330	195	346					121.00	0.9890	0.908
		130,140,150												
		160,170												
JS13	25000	1650	120,125	184	374	201	384		391	6	178.00	1.8500	1.135	
		130,140,150												
		160,170,180												
		190,200												

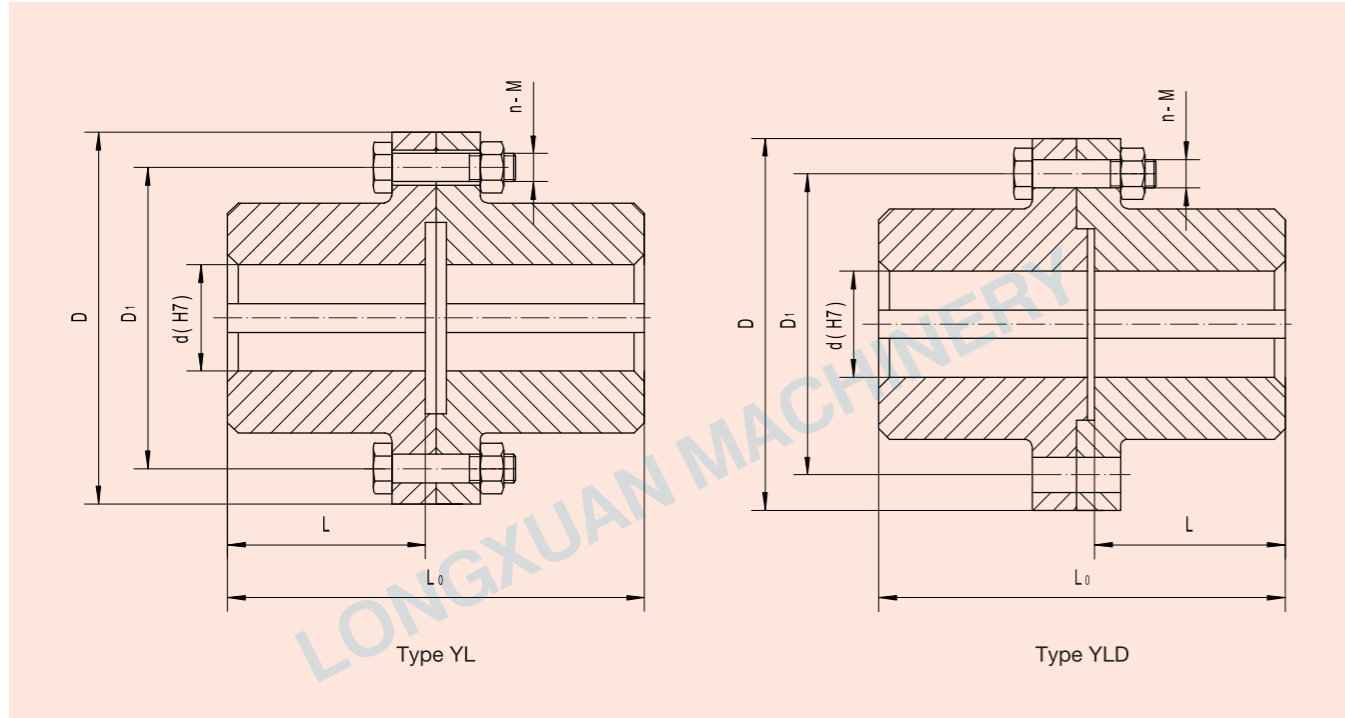
Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d mm	Axle hole length L mm	Total length L ₀ mm	L ₂ mm	D mm	D ₁ mm	Clearance C mm	Weight m Kg	Rotational Inertia Kg·m ²	Lubricant oil Kg	
JS14	35500	1500	140,150	183	372	271	450	431	6	234.26	3.4900	1.952	
			160,170,180										
			190,200										
JS15	50000	1350	160,170,180	198	402	279	500	487			316.89	5.8200	2.815
			190,200,220										
			240										
JS16	63000	1225	180	216	438	304	566	555			448.10	10.4000	3.496
			190,200,220										
			240,250,260										
			280										
JS17	90000	1100	200,220	239	484	322	630	608			619.71	18.3000	3.768
			240,250,260										
			280,300										
JS18	125000	1050	240,250,260	260	526	325	675	660		776.34	26.1000	4.400	
			280,300,320										
JS19	160000	900	280,300,320	280	566	355	756	660		1058.27	43.5000	5.630	
			340,360										
JS20	224000	820	300,320	305	623	432	845	751	13	1425.56	75.5000	10.530	
			340,360,380										
			320										
JS21	315000	730	340,360,380	325	663	490	920	822			1786.49	113.0000	16.070
			400,420										
JS22	400000	680	340,360,380	345	703	546	1000	905			2268.64	175.0000	24.060
			400,420,440,450										
			360,380										
JS23	500000	630	400,420,440,450,460,480	368	749	648	1087	—			2950.82	339.0000	33.820
			400,420,440										
JS24	630000	580	450,460	401	815	698	1180	—			3836.30	524.0000	50.170
			420,440,450										
JS25	800000	540	460,480,500	432	877	762	1260	—			4686.19	711.0000	67.240

Remarks: 1. Consult with the manufacturer if need axle hole of GB/ T3852.
2. The weight and rotational inertia are calculated according to atreto.

Flange couplings of Type YL and YLD



Flange coupling of Type YL and YLD use the bolt to connect the two flange coupling. And the two half couplings connect with the key and two axis respectively to realize the rotational inertia and movement. The flange does no compensation for the relative deviation of the two axial directions. It is used to centre strictly and produces no relative deviation while working. The nominal transmission torque is from 10 to 20, 000 N·m.



The basic parameters and the main dimensions of Flange couplings of Type YL and YLD by GB/T 5843-86

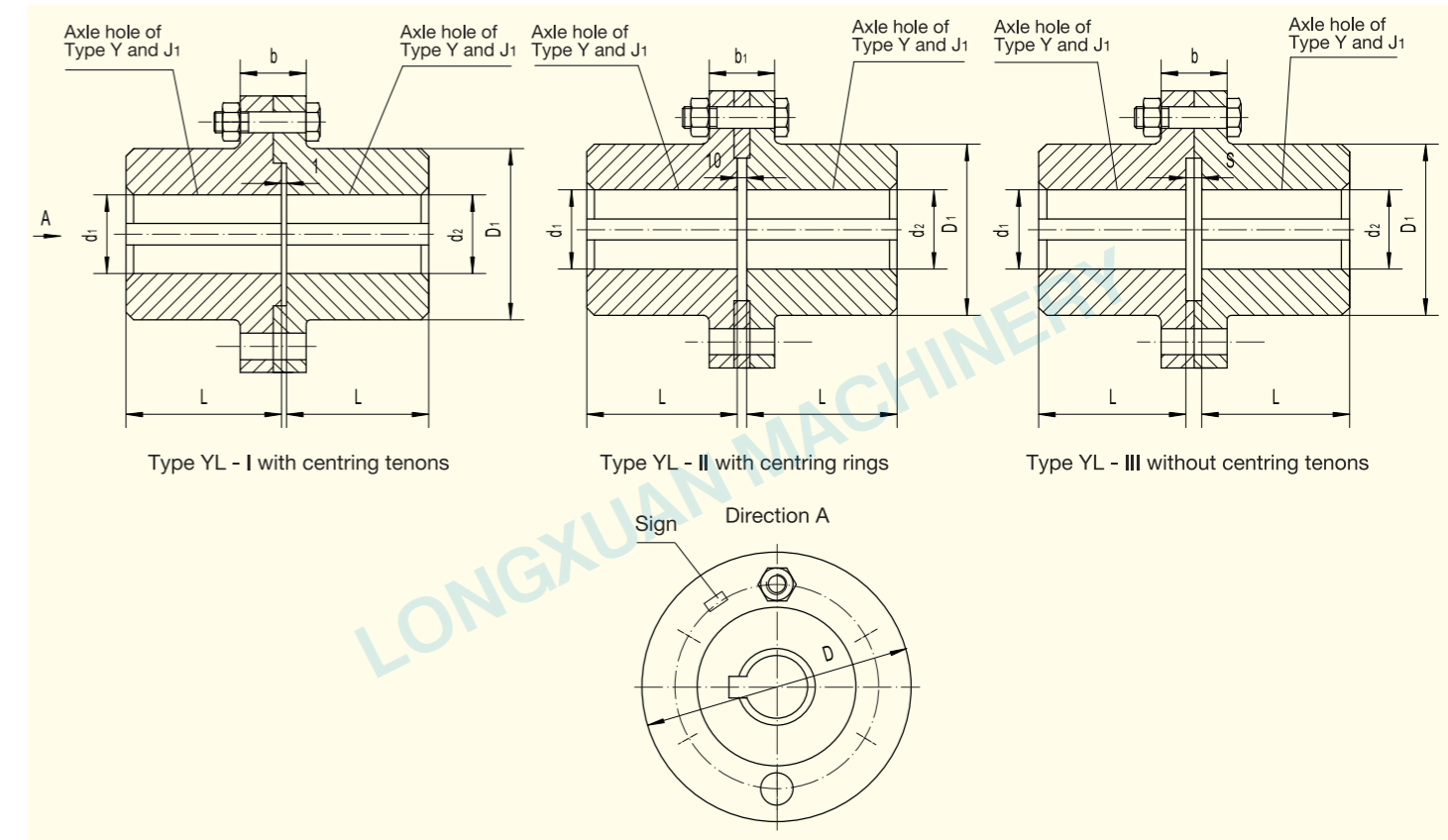
Model	Nominal torque T _n N·m	Allowable speed [n]		Axle hole diameter d(H7)		Axle hole length L		D	D ₁	Bolt		L ₀		Weight m Kg	Rotational Inertia Kg·m ²						
		r/min		mm		mm				Amount n	Diameter M	Type Y	Type J, J ₁								
		iron	steel	iron	steel	Type Y	Type J, J ₁														
YL1 YLD1	10	8100	13000	10	10	25	22	71	53	3	M6	54	48	0.94	0.0018						
				11	11																
				12	12																
				14	14	42	30									80	64	4	M6	88	64
				16	16																
				18	18																
				19	19																
20	20																				
—	22	52	38																		
YL2 YLD2	16	7200	12000	12	12	32	27	80	64	4	M6	68	58	1.50	0.0035						
				14	14																
				16	16																
				18	18																
				19	19																
20	20	52	38																		
YL3 YLD3	25	6400	10000	14	14	32	27	90	69	3	M8	68	58	1.99	0.0060						
				16	16																
				18	18																
				19	19																
				20	20																
				22	22	52	38														
				—	24	62	44														
—	25																				

Model	Nominal torque T _n N·m	Allowable speed [n]		Axle hole diameter d(H7)		Axle hole length L		D	D ₁	Bolt		L ₀		Weight m Kg	Rotational Inertia Kg·m ²
		r/min		mm		mm				Amount n	Diameter M	Type Y	Type J, J ₁		
		iron	steel	iron	steel	Type Y	Type J, J ₁								
YL4 YLD4	40	5700	9500	18	18	42	30	100	80	3	M8	88	64	2.47	0.0093
				19	19										
				20	20										
				22	22	62	44								
				24	24										
YL5 YLD5	63	5500	9000	25	25	52	38	105	85	4	M8	108	80	3.19	0.013
				28	28										
				30	30	62	44								
				—	32										
				YL6 YLD6	100	5200	8000								
25	25														
28	28	62	44												
30	30														
32	32	82	60												
—	35														
YL7 YLD7	160	4800	7600	28	28	62	44	120	95	4	M10	128	92	5.66	0.029
				30	30										
				32	32	82	60								
				35	35										
				38	38	112	82								
—	40														
YL8 YLD8	250	4300	7000	32	32	82	60	130	105	4	M10	168	124	7.29	0.043
				35	35										
				38	38	112	84								
				40	40										
				42	42	130	105								
—	45														
YL9 YLD9	400	4100	6800	38	38	82	60	140	115	6	M10	169	125	9.53	0.064
				40	40										
				42	42	112	84								
				45	45										
				48	48	142	107								
—	50														
YL10 YLD10	630	3600	6000	45	45	82	60	160	130	6	M12	229	173	12.46	0.112
				48	48										
				50	50	112	84								
				55	55										
				—	56	142	107								
—	60														
YL11 YLD11	1000	3200	5300	50	50	112	84	180	150	8	M12	229	173	17.97	0.205
				55	55										
				56	56	142	107								
				60	60										
				63	63	180	150								
65	65														
YL12 YLD12	1600	2900	4700	60	60	142	107	200	170	12	M12	289	219	30.62	0.443
				63	63										
				65	65	112	84								
				70	70										
				71	71	142	107								
				75	75										
				—	80	172	132								
—	80														

Model	Nominal torque T _n N·m	Allowable speed [n]		Axle hole diameter d(H7)		Axle hole length L		D	D ₁	Bolt		L ₀	Weight m Kg	Rotational Inertia Kg·m ²		
		r/min		mm		mm				Amount n	Diameter M				Type Y, J ₁	
		iron	steel	iron	steel	Type Y	Type J ₁								Type Y	Type J ₁
YL13 YLD13	2500	2600	4300	70	70	142	107	220	185	8 (6)	M16	289	219	35.58	0.646	
				71	71											
				75	75	172	132									
				80	80											
				85	85											
YL14 YLD14	4000	2300	4800	80	80	172	132	250	215	12 (8)	M16	350	270	57.13	1.353	
				85	85											
				90	90	212	167									
				95	95											
				100	100											
YL15 YLD15	6300	2000	3400	—	90	172	132	290	250	12 (6)	M20	350	270	89.59	2.845	
				—	95											
				100	100	212	167									
				110	110											
				120	120											
YL16 YLD16	10000	1800	3000	—	100	212	167	340	290	12 (6)	M24	430	340	119.57	5.271	
				—	110											
				120	120	252	202									
				125	125											
				130	130											
YL17 YLD17	14000	1600	2600	—	120	212	167	380	330	12 (6)	M24	430	340	171.71	9.139	
				—	125											
				130	130	252	202									
				140	140											
				150	150											
YL18 YLD18	20000	1400	2300	—	140	252	202	420	360	12 (6)	M30	510	410	(263.85)	(17.883)	
				—	150											
				—	160	302	242									
				—	170											
				—	180											

Remarks: 1. The weight and the rotational inertia are the approximate values calculated by the minimum axle hole and maximum length of the axial extension, while the material is foundry iron (the one in the brackets is cast steel).
 2. The allowable speed of the coupling is the approximate value calculated by allowable line speed is 30 m/s, the steel allowable line speed is 50 m/s, while the material is foundry iron.
 3. Of the amount of the bolt, the one in the brackets is for reamed hole.

- Flange couplings of Type YL-I to YL-III use the bolt to connect the two flange coupling. And the two half couplings connect with the key and two axis respectively to realize the rotational inertia and movement. The flange does no compensation for the relative deviation of the two axial directions. It is used to centre strictly and produces no relative deviation while working. The nominal transmission torque is from 63 to 100,000 N·m.



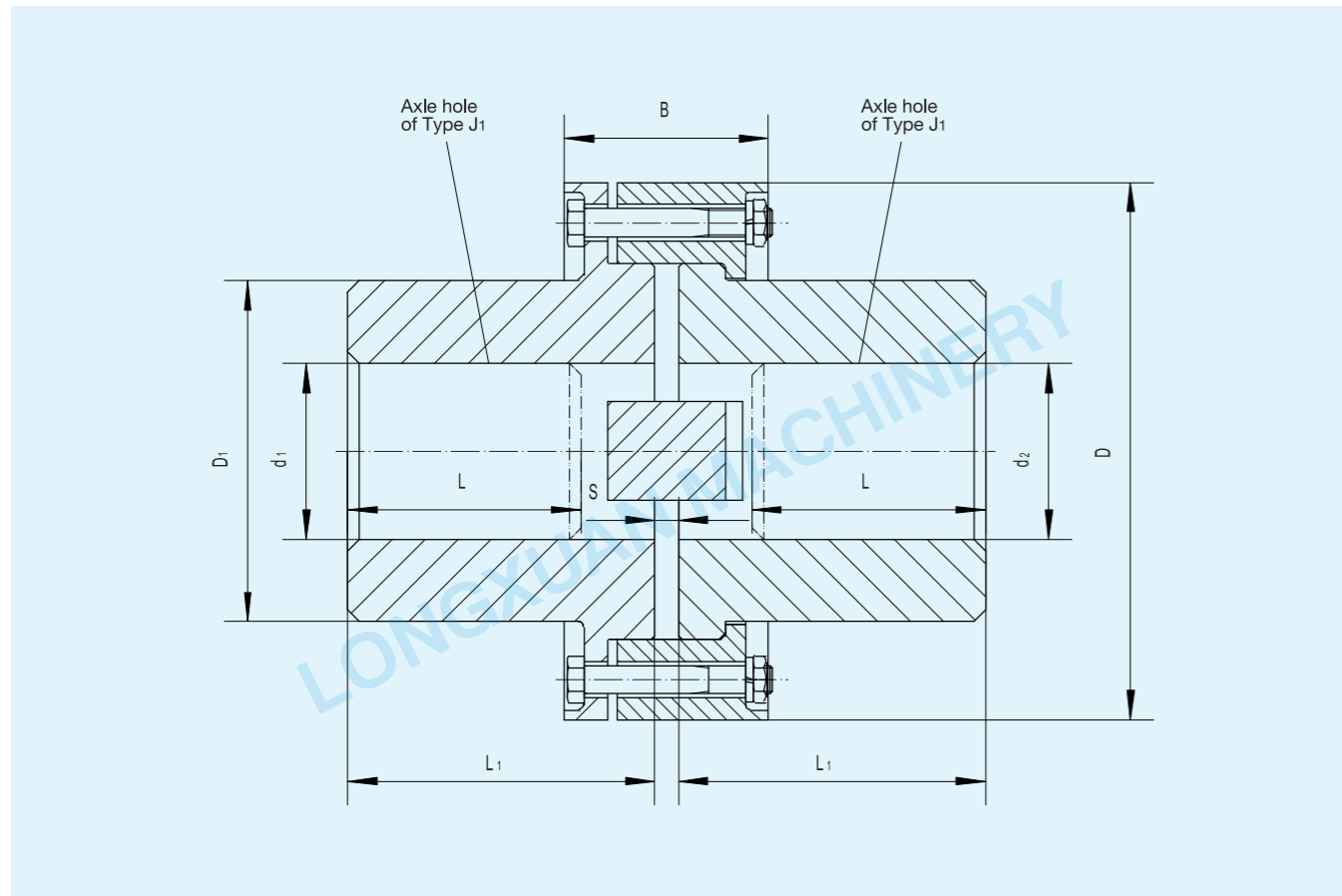
The basic parameters and the main dimensions of Flange coupling of Type YL-I to YL-III by JB/ZQ 4376-2006

Model	Nominal torque T _n N·m	Allowable speed [n] r/min	Axle hole diameter d ₁ , d ₂ mm	Axle hole length L mm		D mm	D ₁ mm	b mm	S mm	b ₁ mm	Rotational Inertia Kg·m ²	Weight Kg
				Y	J ₁							
YL1	63	6300	22,24	52	38	120	48	36	8	52	0.006	4.10
			25,28	62	44							
			30	82	60							
YL2	200	5800	30,32,35,38	112	84	130	68	40	8	56	0.008	6.97
			40,42									
YL3	400	5000	40,42,45,48,50	112	84	150	80	40	8	56	0.021	9.38
YL4	800	4400	50,55,56	142	107	170	100	40	8	56	0.039	23.27
			60,63									
YL5	2000	3600	63,65,70,71,75	172	132	210	130	50	10	68	0.122	30.72
			80									
YL6	5000	2800	80,85,90,95	212	167	260	160	66	10	86	0.360	57.95
			100									
YL7	10000	2500	100,110,120,125	252	202	300	200	72	10	96	0.845	86.10
			125									
YL8	25000	1900	130,140,150	302	242	400	260	80	12	98	2.693	202.3
			160									
YL9	50000	1600	160,170,180	352	282	460	320	92	12	112	6.962	326
			190,200									
YL10	100000	1200	200,220	410	330	590	400	104	12	124	20.550	622
			240,250									

Remarks: 1. The weight and the rotational inertia are the approximate values calculated according to Type I coupling who has the minimum axle hole diameter and maximum length.
 2. While marking, I, II, III should be added to the Models correspondingly.

Flexible axial direction and inflexible radial direction coupling of Type JLA

- Flexible axial direction and inflexible radial direction coupling of Type JLA is quite different from the common flange couplings, the two half couplings adopt radial keys and are connected with the axle by tangential key and detachable-hook key. The transmission nominal torque is from 1, 000 to 80, 000 N·m.



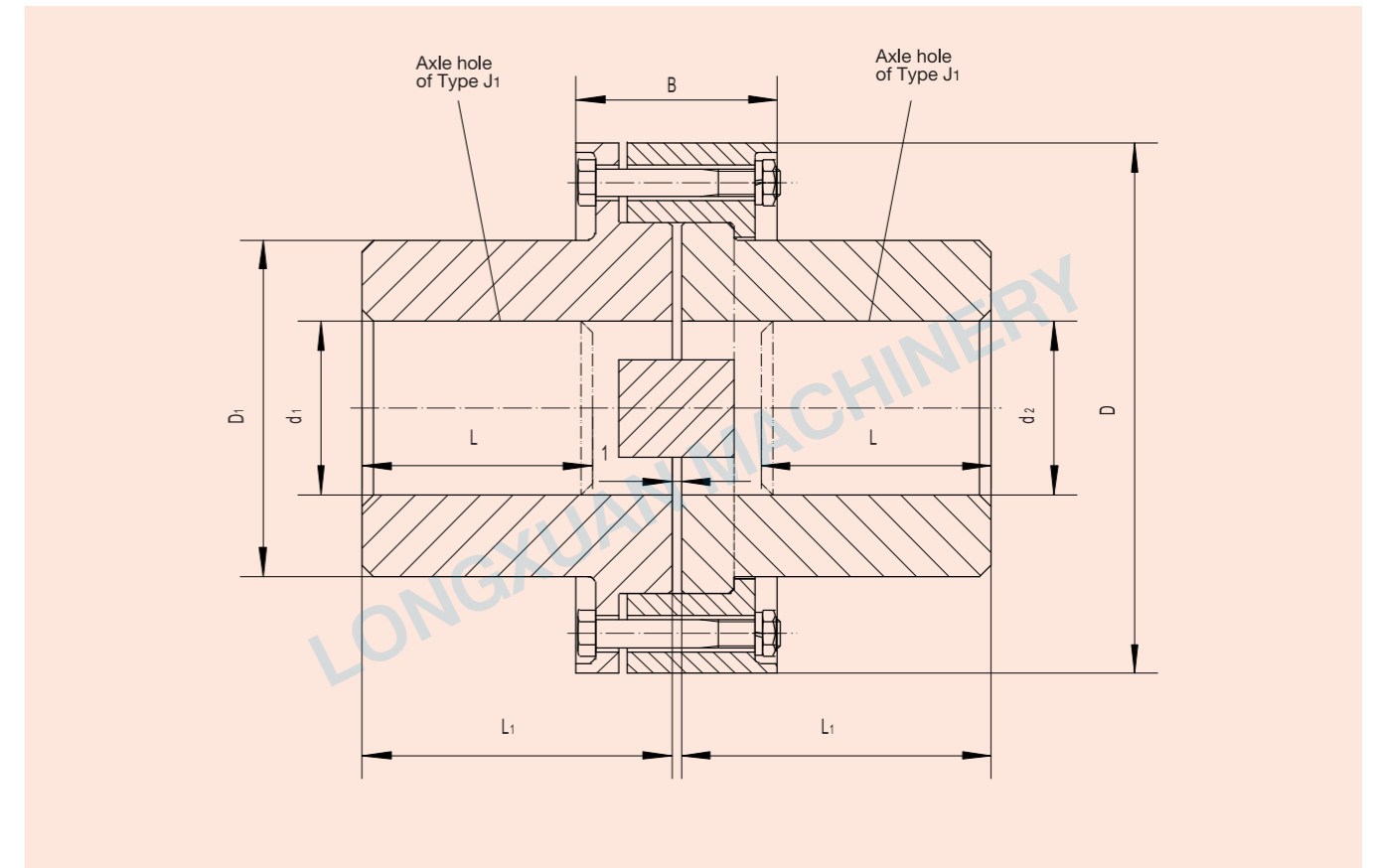
- The basic parameters and the main dimensions of Flexible axial direction and inflexible radial direction coupling of Type JLA by JB/ZQ 4377-2006

Model	Nominal torque T _n N·m		Axle hole diameter d ₁ ,d ₂ mm	Axle hole length Type J ₁ L,mm	L ₁ mm	B mm	D mm	D ₁ mm	S mm	Rotational Inertia Kg·m ²	Weight Kg
	D	E									
JLA1	—	1000	40,42,45,48,50	84	108	87	170	90	10	0.182	15.5
JLA2	—	2500	55,56	84	108	100	215	125	12	0.610	35.0
			60,63,65,70,71	107	140						
JLA3	—	5000	75	107	140	123	282	180	15	2.750	84.0
			80,85,90,95	132	170						
			100	167	220						
JLA4	12500	10000	110,120,125	167	220	146	330	225	20	6.517	150
JLA5	25000	20000	130,140,150	202	262	174	415	290	20	21.800	380
			160	242	308						
JLA6	50000	40000	170,180	242	308	210	500	360	25	57.762	540
			190,200	282	356						
JLA7	80000	63000	220	282	356	255	610	450	25	162.050	992
			240,250	330	426						

Remarks: 1. The maximum line speed of the outer circle should be no more 50m / s.
2. D and E stand for the tangential key connection and the detachable-hook key connection of the axle hole and axle extension respectively.
3. The weight and the rotational inertia are the approximate values calculated by the minimum axle hole and maximum length.

Flexible axial direction and inflexible radial direction coupling of Type JLB

- Flexible axial direction and inflexible radial direction coupling of Type JLB is quite different from the common flange couplings, the two half couplings adopt radial keys and are connected with the axle by tangential key and detachable-hook key. The transmission nominal torques is from 1, 000 to 80, 000 N·m



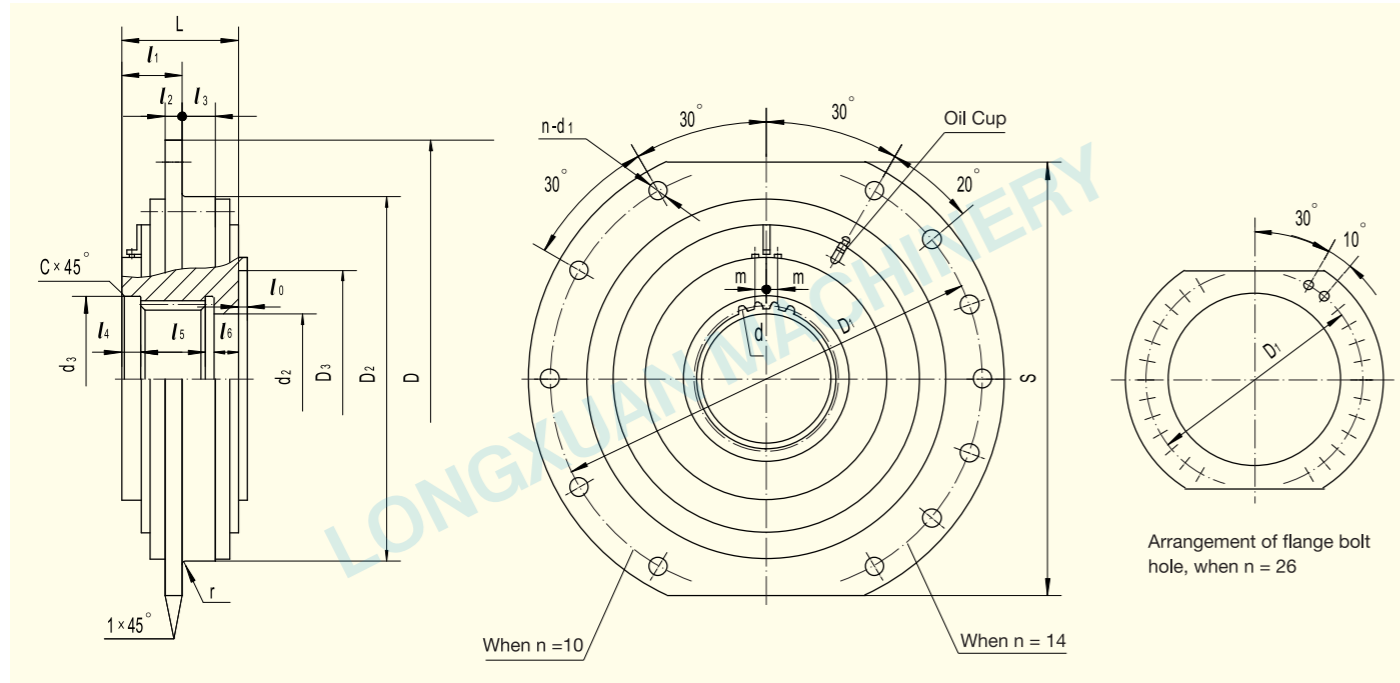
- The basic parameters and the main dimensions of Flexible axial direction and inflexible radial direction coupling of Type JLB by JB/ZQ 4377-2006

Model	Nominal torque T _n N·m		Axle hole diameter d ₁ ,d ₂ mm	Axle hole length Type J ₁ L,mm	L ₁ mm	B mm	D mm	D ₁ mm	Rotational Inertia Kg·m ²	Weight Kg
	D	E								
JLB1	—	1000	40,42,45,48,50	84	108	78	170	90	0.179	12.0
JLB2	—	2500	55,56	84	108	89	215	125	0.470	27.8
			60,63,65,70,71	107	140					
JLB3	—	5000	75	107	140	109	282	180	2.350	65.5
			80,85,90,95	132	170					
			100	167	220					
JLB4	12500	10000	110,120,125	167	220	127	330	225	5.700	133.0
JLB5	25000	20000	130,140,150	202	262	155	415	290	15.800	247.0
			160	242	308					
JLB6	50000	40000	170,180	242	308	185	500	360	50.700	457.0
			190,200	282	356					
JLB7	80000	63000	220	282	356	231	610	450	142.000	878.0
			240,250	330	426					

Remarks: 1. The maximum line speed of the outer circle should be no more 50m / s.
2. D and E stand for the tangential key connection and the detachable-hook key connection of the axle hole and axle extension respectively.
3. The weight and the rotational inertia are the approximate values calculated by the minimum axle hole and maximum length.

Spherical Roller chain coupling for coiling block of Type WJ

- Spherical Roller chain coupling for coiling block of Type WJ is used to connect the coiling block and the reducer in the lifting mechanism of crane. It transfers the torque and bears the radial load. The temperature of its working condition is from -25 °C to 80 °C. The nominal transmission torque is from 5 to 900 N·m. The allowable radial force is from 16.5 to 520 kN.



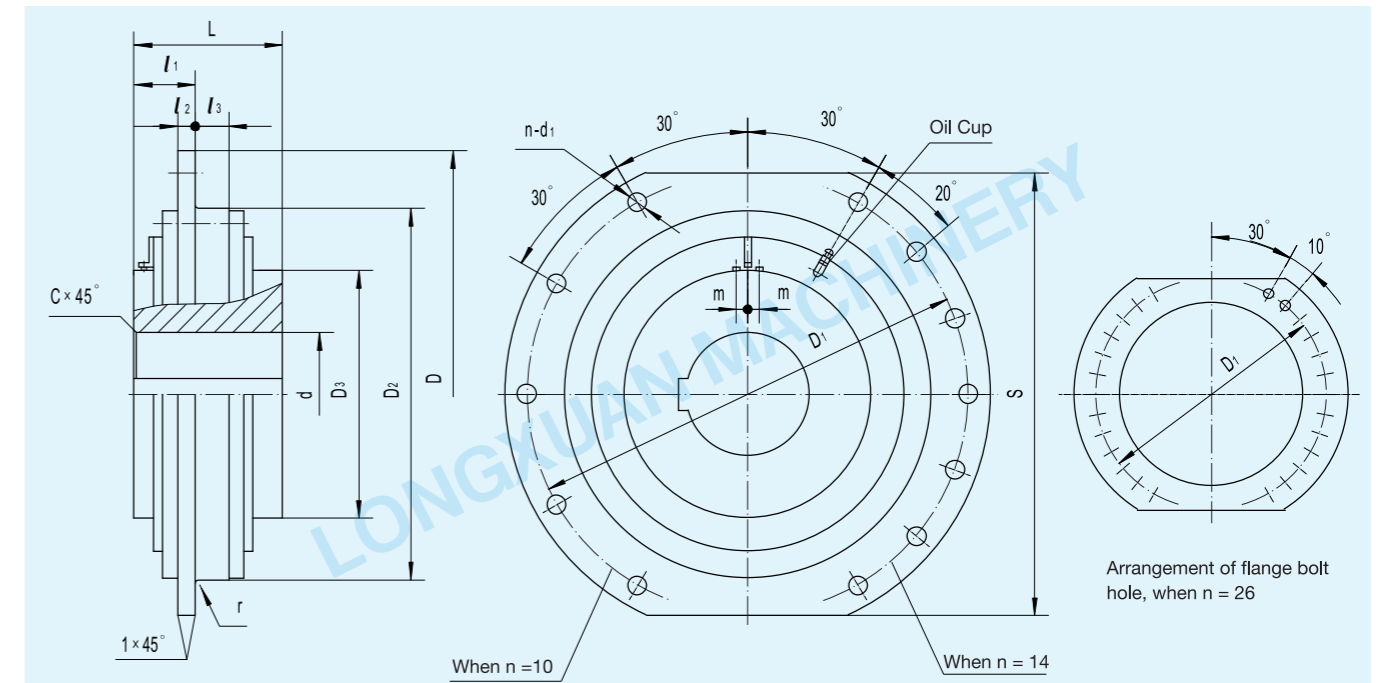
The basic parameters and the main dimensions of Spherical Roller chain coupling for coiling block of Type WJ by JB/T 7009-2007

Model	Nominal torque Tn KN·m	Allowable radial force KN	Inner spline d	D	D1	D2 h6	D3	n-d1	d2 G6	d3 G6	S h9	L	l0	l1	l2	l3	l4	l5	l6	r	C	Abrasion scale m	Rotational Inertia Kg·m ²	Weight Kg
WJ1	5	16.5	INT16Z×2.5m INT17Z×2.5m	250	220	160	—	10×14	35 38	45 48	220	80	0	42	12	24	22	30	18	2	1.6	4	0.06	13.2 12.2
WJ2	7.1	18.5	INT17Z×2.5m INT15Z×3m	280	250	180	—	10×14	38 40	48 50	250	80	0	42	12	24	22	30	18	2	1.6	4	0.12	19.8 18.8
WJ3	9	20	INT15Z×3m INT18Z×3m	320	280	200	—	10×18	40 50	50 60	280	84	0	45	15	25	22	30	22	2.5	1.6 2	4	0.20	22.1 21.8
WJ4	14	25	INT18Z×3m INT22Z×3m	340	300	220	—	10×18	50 60	60 70	300	92	0	45	15	25	22	30 35	30 25	2.5	2	4	0.27	28.9 28.8
WJ5	18	35	INT22Z×3m INT27Z×3m	360	320	240	—	10×18	60 70	70 85	320	92	0	45	15	25	22	35 40	25	2.5	2	6	0.36	35 34
WJ6	22.4	38.5	INT27Z×3m INT18Z×5m	380	340	260	—	10×18	70 80	85 100	340	97	0	45	15	25	22	40 50	25	2.5	2.5	6	0.48	40 41
WJ7	28	42	INT18Z×5m INT22Z×5m	400	360	280	150	10×18	80 100	100 120	360	127	10	67	15	33	37	50 55	25 30	3	2.5	6	0.60	51 47
WJ8	35.5	49	INT22Z×5m INT26Z×5m	420	380	310	168	10×18	100 120	120 140	380	137	20	77	15	33	37	55 70	30 35	3	2.5	6	0.86	59 57
WJ9	50	70	INT26Z×5m INT30Z×5m	450	400	340	215	10×22	120 140	140 160	400	157	0	87	20	28	37	70 75	40	3	3	6	1.32	78 75
WJ10	100	120	INT30Z×5m INT34Z×5m	550	500	420	260	10×22	140 160	160 180	500	167	20	95	20	38	37	85 85	45	3	3	8	3.44	129 126
WJ11	160	140	INT34Z×5m INT38Z×5m	580	530	450	285	14×22	160 180	180 200	530	182	0	95	20	38	37	95 95	45	3	3 4	8	4.23	151 146
WJ12	224	170	INT38Z×5m INT26Z×8m	650	600	530	315	14×22	180 190	200 222	580	192	15	120	25	33	37	95 105	45	3	4	8	7.52	210 205
WJ13	355	300	INT26Z×8m INT30Z×8m	680	630	560	385	26×22	190 220	222 254	600	207	0	120	25	35	37	105 120	45	4	4 5	8	9.81	126 129
WJ14	500	340	INT30Z×8m INT34Z×8m	710	660	600	395	26×26	220 250	254 286	640	222	15	140	35	43	37	120 135	45	4	5	8	14.76	301 293
WJ15	630	380	INT34Z×8m INT38Z×8m	780	730	670	445	26×26	250 280	286 318	700	237	25	160	35	43	37	135 150	45 55	4	5	8	24.14	398 395
WJ16	710	450	INT38Z×8m INT44Z×8m	850	800	730	445	26×26	280 320	318 366	760	262	25	180	35	43	37	150 170	55 60	4	5 6	8	34.40	483 451
WJ17	900	520	INT44Z×8m INT50Z×8m	950	900	840	585	26×26	320 360	366 420	860	287	25	200	45	55	37 52	170 220	60	4	6 8	8	74.63	797 793

Remarks: The rotational inertia and the weight are the approximate values calculated by the minimum axle hole.

Spherical Roller chain coupling for coiling block of Type WJA

- Spherical Roller chain coupling for coiling block of Type WJA is used to connect the coiling block and the reducer in the lifting mechanism of crane. It transfers the torque and bears the radial load. The temperature of its working condition is from -25 °C to 80 °C. The nominal transmission torque is from 5 to 710 N·m. The allowable radial force is from 16.5 to 450 kN.



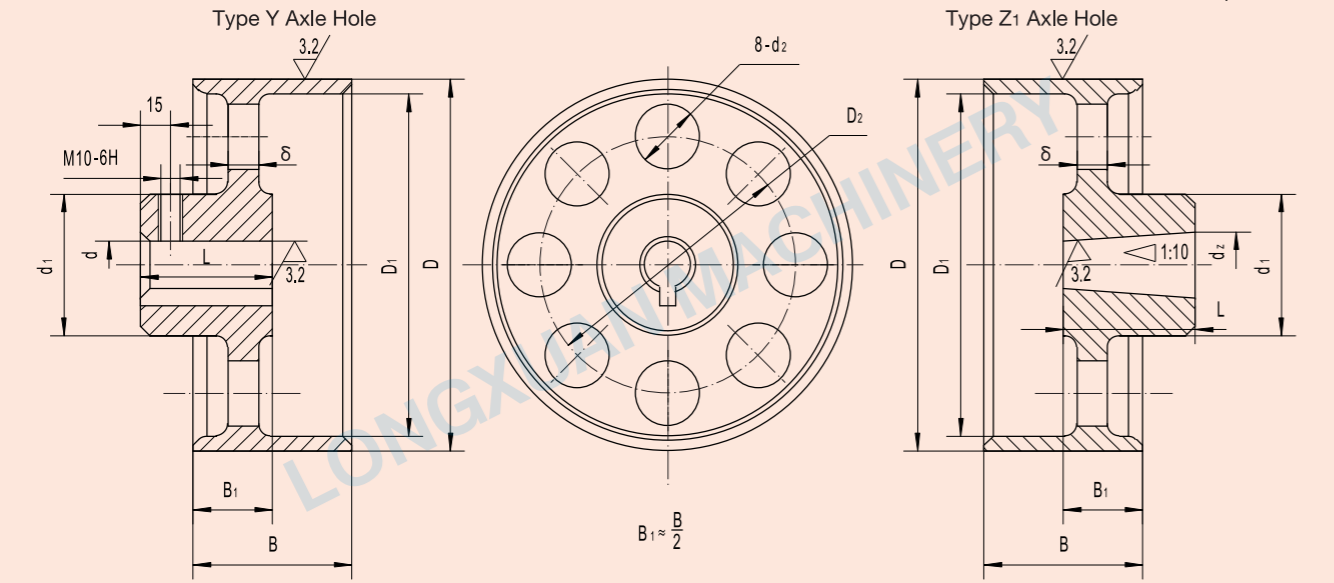
The basic parameters and the main dimensions of Spherical Roller chain coupling for coiling block of Type WJA by JB/T 7009-2007

Model	Nominal torque Tn KN·m	Allowable radial force KN	d H7	L	D	D1	D2 h6	D3	n-d1	S h9	l1	l2	l3	r	C	Abrasion scale m	Rotational Inertia Kg·m ²	Weight Kg
WJA1	5	16.5	40,42,45,48 50,55	84	250	220	160	85	10×14	220	42	12	24	2	1.6	4	0.065	12.8
WJA2	7.1	18.5	45,48,50,55 60	84 107	280	250	180	90	10×14	250	42	12	24	2	1.6 2	4	0.102	16.1 15.9
WJA3	9	20	48,50,55 60,65	84 107	320	280	200	95	10×18	280	45	15	25	2.5	1.6 2	4	0.193	21.9 21.8
WJA4	14	25	60,65,70,75 80,85	107 132	340	300	220	130	10×18	300	45	15	25	2.5	2	4	0.278	29.8 29.5
WJA5	18	35	70,75 80,85,90,95	107 132	360	320	240	150	10×18	320	45	15	25	2.5	2	6	0.369	35 36.5
WJA6	22.4	38.5	80,85,90,95 100,110	132 167	380	340	260	160	10×18	340	45	15	25	2.5	2.5	6	0.496	43.3 43.7
WJA7	28	42	80,85,90,95 100,110,120	132 167	400	360	280	170	10×18	360	47	15	33	3	2.5	6	0.654	53 52
WJA8	35.5	49	100,110,120 130,140	167 202	420	380	310	200	10×18	380	47	15	33	3	2.5 3	6	0.95	69 67
WJA9	50	70	100,110,120 130,140,150	167 202	450	400	340	230	10×22	400	52	20	28	3	2.5 3	6	1.45	89 88.5
WJA10	100	120	130,140,150 160,170,180	202 242	550	500	420	280	10×22	500	60	20	38	3	3	8	3.81	156 151
WJA11	160	140	160,170,180 190,200	242 282	580	530	450	300	14×22	530	60	20	38	3	3 4	8	4.932	184 181
WJA12	224	170	190,200,220 240,250	282 330	650	600	530	360	14×22	580	65	25	33	3	4	8	9.09	267 247
WJA13	355	300	200,220 240,250,260	282 330	680	630	560	400	26×22	600	65	25	35	4	4	8	12.1	319 311
WJA14	500	340	240,250,260 280,300	330 380	710	660	600	440	26×26	640	82	35	43	4	4 5	8	18.2	403 394
WJA15	630	380	240,250,260 280,300,320	330 380	780	730	670	500	26×26	700	82	35	43	4	4 5	8	29.4	544 560
WJA16	710	450	280,300,320 340,360,380	380 450	850	800	730	550	26×26	760	82	35	43	4	5 6	8	44	693 664

Remarks: 1. The rotational inertia and the weight are the approximate values calculated by the minimum axle hole.
2. If wanted axle hole diameter and length are not in the figure or of other keyway model, just contact us.

Braking Wheel

Remarks: The external diameter of the braking wheel is 200 mm, the axle hole diameter is 60 mm, and axle hole type is Y.
It's marked as Braking wheel 200-Y60 by JB / ZQ 4389-2006.



The basic parameters and the main dimensions of Braking wheel by JB/ZQ 4389-2006

D	Type Y Axle Hole		Type Z1 Axle Hole		B	D1	D2	d1	d2	delta	Rotational Inertia Kg·m ²	Weight Kg
	d	L	d _z	L								
100	25,28	62	25,28	44	70	84	—	65	—	8	0.0075	3.0
	30,32,35	82	30,32,35	60								
160	25,28	62	25,28	44	70	145	105	65	30	8	0.03	5
	30,32,35	82	30,32,35	60								
200	25,28	62	30,32,35,38	60	85	180	140	100	30	8	0.20	10.0
	30,32,35,38	82		84								
	40,42,45,48,50,55	112		84								
250	30,32,35,38	82	30,32,35,38	60	105	220	168	115	40	8	0.28	18.0
	40,42,45,48,50,55	112		84								
	60	142		107								
315 (300)	40,42,45,48,50,55	112	60,65,70,75	107	135	290 (275)	200	120	55	8	0.60	24.5
	60, 65	142										
400	60,65,70,75	142	60,65,70,75	107	170	370	275	175	70	12	0.75	60.7
	80,85	172		132								
500	80,85,90,95	172	75	107	210	465	340	210	90	14	2.0	100.6
			80,85,90,95	132								
	100,110,120	167										
	130	202										
630 (600)	90,95	172	90,95	132	265	595 (565)	390	210	120	16	5.0	132.1
	100,110	212	100,110,120	167								
			130	202								
710 (700)	100,110,120	212	110,120	167	300	670 (660)	435	210	130	18	10	183.4
	130	252	130	202								
800	130,140,150	252	130,140,150	202	340	760	495	230	140	18	16.75	230.9

Remarks: The braking wheel diameters in brackets are not recommended.

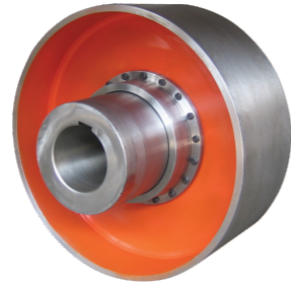
Appendix Working condition coefficient of coupling

Machines	Working condition coefficient k	Machines	Working condition coefficient k
Excavating equipment		Food processing equipment	
Bucket wheel excavator	2.0	Can filler	1.25
Crawler mobile chain	1.8	Mixer	1.4
Rail mounted mobile chain	1.6	Bagging machine	1.25
Suction pump	1.6	Cane crusher	1.6
Bucket wheel	1.8	Cane cutter	1.6
Cutter head	2.0	Cane shredder	1.8
Swiveling gear	1.4	Beet cutter	1.6
Capstan	1.6	Beet washer	1.6
Mining equipment and rock crushing plant		Paper making equipment	
Stone crusher	2.24	Multilayer board machine	1.8
Rotary kilns	1.8	Polishing drum	2.0
Mine ventilator	2.0	Spool	1.8
Vibrator	1.6	Change-can mixer	1.6
Chemical equipment		Calender	1.6
Blender for dilute liquid	1.25	Wet paper roller mill	1.8
Blender for viscous liquid	1.6	Pulp chopper	1.8
Light centrifuge	1.4	Blender	1.8
Heavy centrifuge	1.8	Suction roller mill	1.6
Conveyor equipment		Suction roll	1.8
Conveyor	1.8	Drying drum	2.0
Slat type conveyor	1.6	Pressing equipment	
Belt conveyor for bulk material	1.4	Fold press	1.8
Small belt conveyor	1.25	Briquetting machine	2.5
Bucket chain conveyor	1.4	Crank press	2.0
Placed conveyor	1.4	Forging press	2.25
Elevator	1.4	Brick machine	2.5
Bucket elevator for meal	1.25	Pumps	
Hoister	1.8	Centrifugal pump for dilute liquid	1.25
Screw conveyor	1.4	Centrifugal pump for viscous liquid	1.4
Steel-band conveyor	1.4	Reciprocating piston pump	1.8
Blower and ventilation equipment		Ram pump	2.0
Spiral piston blower	1.4	Mud pump	1.4
Blower (axial and radial)	1.5	Vacuum pump	1.5
Cooling tower fan	1.4	Textile equipment	
Induced draft fan	1.4	Winding machine	1.6
Turbo-blower	1.25	Calico printing machine and fired dryer	1.6
Generator and Transverter		Refined cylinder	1.6
Frequency converter	2.24	Calender	1.6
Generator	1.4	Cutting machine	1.6
Welding engine	2.24	Loom	1.6
Rubber and plastics processing equipment		Compressors	
Extruder	1.6	Reciprocating compressor	2.0
Calender	1.6	Turbo compressor	1.6
Entwist machine	1.8	Rolling mill equipment	
Mixing machine	1.8	Slab cutter	1.8
Roller mill	1.8	Panel turnover machine	1.6
Wood processing equipment		Slab mill	2.0
Barking machine	1.8	Blank conveyor	1.8
Planer	1.4	Slab pusher	2.0
Sawing machine	1.4	Strip and wire coiling machine	1.4
Steel-making equipment		Phosphorus removal machine	1.6
Blast furnace blower	1.4	Sheet mill	1.8
Converter	2.0	Heavy and medium plate mill	2.0
Tilting furnace elevator	1.8	Cold reduction mill	2.0
Slag crusher	1.8	Crawler-type hauling machine	1.6
Lifting equipment		Billet cutter	1.8
Single screw lift	1.25	Cooling bed	1.4
Traveling mechanism	1.6	Conveying guide roller	1.4
Lifting mechanism	1.4	Roller bed for light load	1.4
Gyration mechanism	1.4	Roller bed for heavy load	1.8
Windlass	1.25	Roller straightening machine	1.6
Metal processing equipment		Edge trimmer	1.4
Power axle	1.6	End trimmer	1.8
Slab straightening machine	1.8	Looping elevator	1.4
Forging hammer	1.8	Roll modulation device	1.4
Shearing machine	1.6		
Forging machine	1.8		
Punching machine	1.8		
Grinding and shredding equipment			
Hammer crusher	2.0		
Ball mill	2.0		
Hanging roller mill	2.0		
Impact crusher	2.0		
Rod mill	2.0		
Extrusion crusher	2.0		

Products Display



■ Drum tooth-type coupling



■ Drum tooth-type coupling with braking wheels



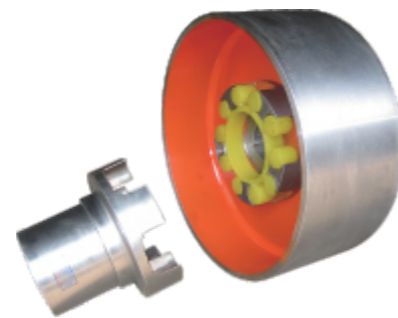
■ Resilient dowel pin coupling



■ Diaphragm coupling



■ Sleeved diaphragm coupling



■ Cross resilient coupling of Type with split braking wheel



■ Tyred coupling

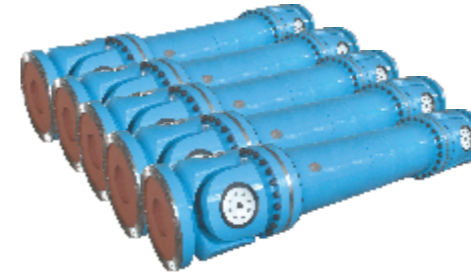


■ Radial solid coupling



■ Large convex rafter coupling

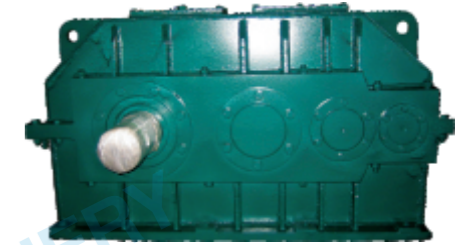
Products Display



■ Large-scale cross universal coupling



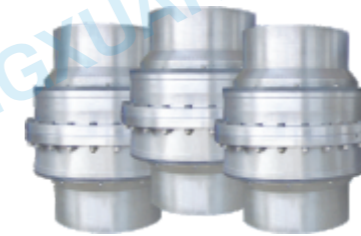
■ Flexible drum tooth-type coupling



■ Reducer



■ Sleeved drum tooth-type coupling



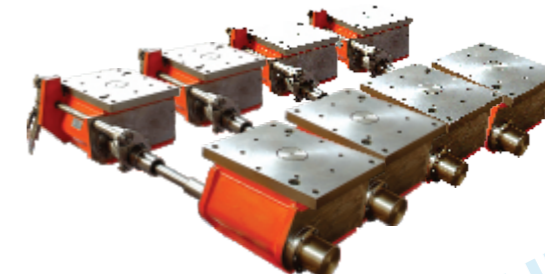
■ Large drum tooth-type coupling



■ Sleeve coupling



■ Roll gap adjustment



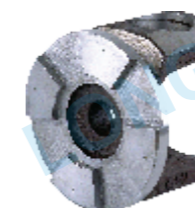
■ Screwdown structure



■ Heavy expansion sleeve



■ Flange fork of end tooth-type connection



■ Flange fork of pawl connection



■ Drum tooth-type flat sleeve



■ Cross package

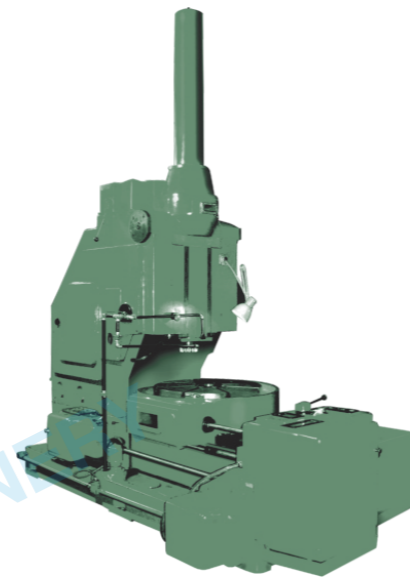


■ Diaphragm

Processing Equipment



■ Large lathe



■ Large gear planer



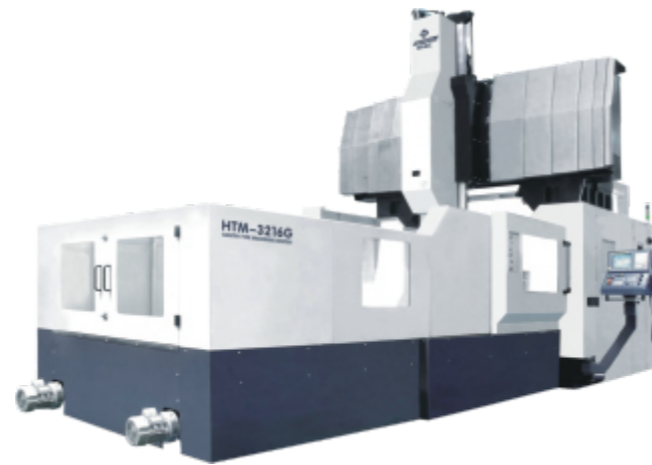
■ Digital display boring-milling lathe



■ Large NC hobbing machine



■ NC lathe



■ Gantry vertical processing center



■ Spline hobbing lathe



■ Large grinding lathe

Testing Equipment



■ High speed C and S analysing instruments



■ Flaw detector



■ Dynamic balancer



■ Tensile strength tester



■ Sclerometer



■ Metalloscope