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AC Series Motor Shaft Extension Coupler

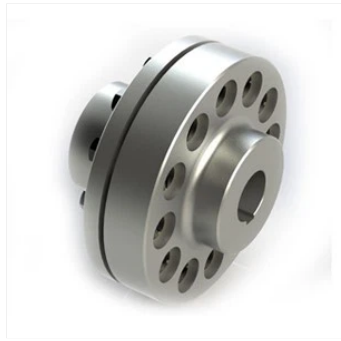
Couplings, also known as couplers, it's a mechanical component used to firmly connect the active and driven shafts in different mechanisms for rotation, and transmit motion and torque. AC series motor shaft extension coupler is widely used in engineering machinery, metallurgical equipment, steel machinery, mining machinery, chemical machinery, papermaking machinery, printing machinery, textile machinery, food machinery and other fields.

Description Technical Parameters

Brief Introduction

Couplings, as a mechanical engineering component, are widely used in the transmission system of modern construction machinery, such as excavators, loaders, bulldozers, rollers, shovels, and other equipment.






So how about the application of couplings in other fields such as steel machinery, mining machinery, etc?

● Metallurgical equipment field

In metallurgical equipment, AC series motor shaft extension coupler is commonly used in transmission devices such as roller tables, steel billets, and hot-rolled steel plate production lines. Due to the strict requirements of the steel industry for transmission equipment, the selection of couplings is also very important. It is necessary to ensure that they can withstand heavy loads, high speeds, large torques, constantly changing working conditions, and have good dynamic characteristics.

● Steel machinery field

Couplings are widely used in the field of steel machinery. These mechanical devices typically require very high speeds and torques to operate, and require durable and reliable transmission components. The main function of a coupling is to transmit power and torque, and can adjust the speed and torque of the shaft system.

● Mining machinery field

The transmission system of mining machinery is one of the important application areas of couplings. Couplings can be used in the transmission systems of equipment such as excavators, conveyors, crushers, and screening machines. These mechanical devices require strong transmission capabilities and need to maintain stable operation in harsh working environments.

● In the field of chemical machinery

Chemical machinery is another important application area of AC series motor shaft extension coupler. In the chemical production process, couplings are commonly used in the transmission devices of equipment such as mixers, centrifuges, reaction vessels, presses, and mixing drums. These mechanical devices usually require long-term operation and need to start and stop quickly and smoothly.

● Other fields

In addition to the above-mentioned industries, couplings are also widely used in other fields, including papermaking machinery, printing machinery, textile machinery, food machinery, etc. In these industries, the main function of couplings is to ensure the smooth and reliable transmission of equipment, as well as to protect the transmission device from wear and damage caused by adverse working conditions.

The lifespan of a motor shaft extension coupler depends on its type, usage environment, and maintenance, typically ranging from 2 years to 20000 hours.

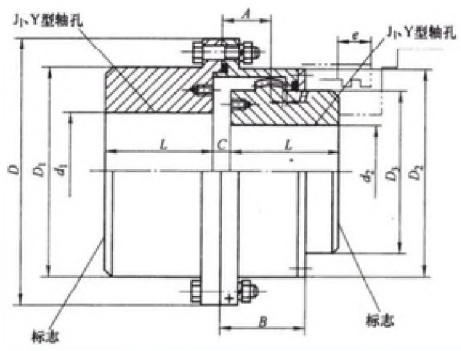
The lifespan of a coupling is influenced by various factors, including its type, usage environment, maintenance status, etc. Different types of couplings, such as mechanical couplings, elastic couplings, and hydraulic couplings, have different structures and functions, resulting in varying lifespans.

Generally, the service life of a coupling is the result of a combination of multiple factors. Choosing the appropriate type of coupling, paying attention to the usage environment, and correctly installing and maintaining it can effectively extend the service life of the coupling.

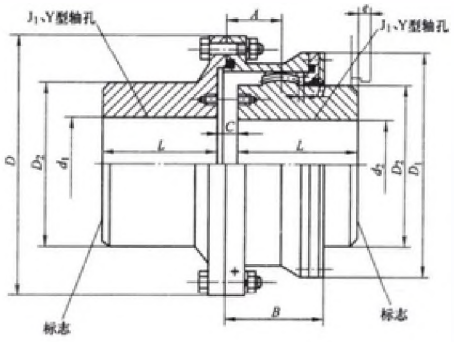
Technical Data

Application	Engineering machinery, metallurgical equipment, steel machinery, mining machinery, chemical machinery, paper-making machinery, printing machinery, textile machinery, food machinery, etc
Series	WG,WGZ,WGP,WGT,WGC,WGJ
HS code	8483600090
Frame size	WG1~24;WGZ1~14;WGP1~14;WGT1~24;WGC1~14;WGJ1~23
Standard	GB/T19001-2016/ISO 9001:2015;JB/ZQ4186-97
Tn(N*m)	700~1400000
Speed	850~7500rpm
Moment of inertia (kg*m)2	0.0079~2600
Weight(kg)	5~18000

Dimensions And Parts' Codes



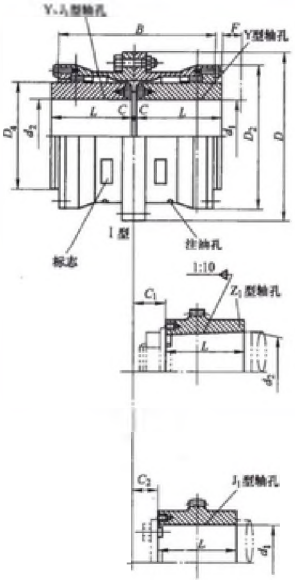
G Ⅱ CLZ1 ~ G Ⅱ CLZ13 型鼓形齿式联轴器

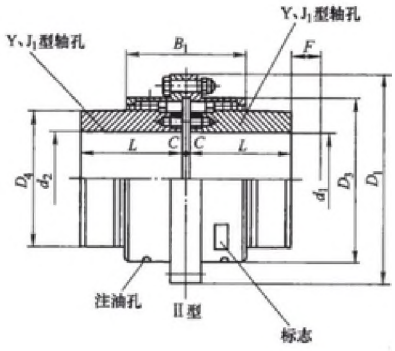


G Ⅱ CLZ14 ~ G Ⅱ CLZ25 型鼓形齿式联轴器

型号	公称转矩 T_n/kN·m	许用转速[n] /r·min⁻¹	轴孔直径 d_1、d_2	轴孔长度L Y	轴孔长度L J_1	D	D_1	D_2	D_3	C	H	A	B	e	转动惯量 /kg·m²	润滑脂用量 /mL	质量 /kg
			mm														
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
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

型号	公称转矩 T_n/kN·m	许用转速[n] /r·min^{-1}	轴孔直径 d_1、d_2	轴孔长度L Y	轴孔长度L J_1	D	D_1	D_2	D_3	C	H	A	B	e	转动惯量 /kg·m^2	润滑脂用量 /mL	质量 /kg
			mm														
GⅡCLZ8	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
GⅡCLZ9	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
GⅡCLZ10	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
			130,140,150	252	202										0.935		133.5
GⅡCLZ11	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
GⅡCLZ12	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
GⅡCLZ13	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
GⅡCLZ14	112	1650	170,180,(185)	302	242	462	420	335	—	22	5.5	66	140	63	6.9	1600	389
			190,200,220	352	282										7.675		438
			240，250	410	330										8.6		509
GⅡCLZ15	180	1500	190,200,220	352	282	512	465	380	—	22	5.5	91	158	63	12.425	2100	566
			240,250,260	410	330										13.975		650
			260,(285)	470	380										15.575		740
GⅡCLZ16	250	1300	220	352	282	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
GⅡCLZ17	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
GⅡCLZ18	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





型号	公称转矩 T_n/N·m	许用转速[n] /r·min^{-1}	轴孔直径 d_1,d_2,d_z	轴孔长度L Y	轴孔长度L J_1,Z_1	D	D_1	D_2	D_3	D_4	B	B_1	r	C I	C II	C_1	C_2	重量(kg) I	重量(kg) II	润滑脂总量kg I	润滑脂总量kg II
WG1	710	7500	12,14	32	—	122	115	98	88	60	116	100	30	30	—	—	—	5.6	4.86	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				
			40,42	112	84									3	3	29	12				
WG2	1250	6700	22,24	52	—	150	145	118	108	77	136	104	30	20	4	—	—	9.78	7.48	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				
WG3	2500	6300	22,24	52	—	170	165	140	125	90	160	108	30	33	7	—	—	16.7	12.2	0.17	0.10
			25,28	62	—									23	3	—	—				
			30,32,35,38	82	60									3	3	23	16				
			40,42,45,48,50,55,56	112	84									3	3	29					
			60,63	142	107									3	3	36	16				
WG4	4500	5600	30,32,35,38	82	—	200	195	160	145	112	180	116	30	13	3	—	—	25.6	19.6	0.25	0.15
			40,42,45,48,50,55,56	112	84									3	3	29	17				
			60,63,65,70,71,75	142	107									3	3	36	17				
			80	172	132									3	3	41	17				
WG5	7100	5300	30,32,35,38	82	—	225	215	180	168	128	200	126	30	23	3	—	—	35.0	26.1	0.35	0.22
			40,42,45,48,50,55,56	112	84									3	3	29	19				
			60,63,65,70,71,75	142	107									3	3	36	19				
			80,85,90	172	132									3	3	41	19				
WG6	10000	5000	32,35,38	82	—	245	230	200	185	145	224	134	30	35	5	—	—	51.6	38.0	0.40	0.20
			40,42,45,48,50,55,56	112	—									5	5	—	—				
			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				
WG7	14000	4500	32,35,38	82	—	272	265	230	210	160	244	148	30	45	5	—	—	68.6	45.0	0.60	0.44
			40,42,45,48,50,55,56	112	—									15	5	—	—				
			60,63,65,70,71,75	142	107									5	5	38	20				
			80,85,90,95	172	132									5	5	43	20				
			100,110	212	167									5	5	48	20				
WG8	20000	4250	55,56	112	—	290	272	245	225	176	272	162	30	29	5	—	—	79.5	55.8	0.075	0.55
			60,63,65,70,71,75	142	107									5	5	30	34				
			80,85,90,95	172	132									5	5	43	20				
			100,110,120,125	212	167									5	5	48	20				
WG9	25000	4000	65,70,71,75	142	107	315	305	265	245	190	280	176	30	5	5	38	38	106.5	80.5	1.00	0.79
			80,85,90,95	172	132									5	5	43	28				
			100,110,120,125	212	167									5	5	48	28				
			130,140	252	202									5	5	53	28				
WG10	4000	3550	75	142	—	355	340	300	280	225	330	196	30	28	5	—	—	158.8	121.8	1.3	0.9
			80,85,90,95	172	132									5	5	43	38				
			100,110,120,125	212	167									5	5	48	28				
			130,140,150	252	202									5	5	53	28				
			160	302	242									5	5	63	28				
WG11	56000	3000	80,85,90,95	172	—	412	385	345	325	256	360	224	40	15	8	—	—	214	167	1.6	1.2
			100,110,120,125	212	167									8	8	51	32				
			130,140,150	252	202									8	8	56	32				
			160,170,180	302	242									8	8	66	32				
WG12	80000	2800	120,125	212	167	[illegible]	435	375	360	288	414	250	40	8	8	51	45	302	242	2.6	1.9
			130,140,150	252	202									8	8	56	32				
			160,170,180	302	242									8	8	66	32				
			190,200	352	282									8	8	76	32				
WG13	112000	2500	140,150	252	202	490	480	425	400	320	470	272	50	8	8	56	38	390	309	3.3	2.4
			160,170,180	302	242									8	8	66	32				
			190,200,220	352	282									8	8	76	32				

WG14	160000	2300	160,170,180	302	242	545	540	462	440	362	530	316	50	10	10	68	32	522	423	4.8	3.7
			190,200,220	352	282									10	10	78	32				
			240,250,260	410	330									10	10	—	10				
WG15	224000	2100	160,170,180	302	242	580	—	488	—	400	560	—	50	10	—	68	43	677	—	5	—
			190,200,220	352	282									10	—	78	32				
			240,250,260	410	330									10	—	—	10				
			270	470	380									10	—	—	10				
WG16	280000	1900	180	302	242	650	—	560	—	440	600	—	50	12	—	70	63	939	—	7	—
			190,200,220	352	282									12	—	80	32				
			240,250,260	410	330									12	—	—	12				
			280,300	470	380									12	—	—	12				
WG17	355000	1800	200,220	352	282	690	—	600	—	460	650	—	50	12	—	70	48	1041	—	8	—
			240,250,260	410	330									12	—	—	12				
			280,300,320	470	380									12	—	—	12				
WG18	450000	1700	220	352	282	750	—	650	—	510	700	—	60	12	—	70	73	1381	—	10	—
			240,250,260	410	330									12	—	—	12				
			280,300,320	470	380									12	—	—	12				
			340,360	550	450									12	—	—	12				
WG19	560000	1600	240,250,260	410	330	775	—	690	—	535	745	—	60	12	—	—	12	1526	—	11	—
			280,300,320	470	380									12	—	—	12				
			340,360,380	550	450									12	—	—	12				
WG20	710000	1500	260	410	330	825	—	730	—	580	785	—	60	14	—	—	14	2081	—	13	—
			280,300,320	470	380									14	—	—	14				
			340,360,380	550	450									14	—	—	14				
			400	650	540									14	—	—	14				
WG21	800000	1300	280,300,320	470	380	925	—	825	—	620	810	—	60	14	—	—	14	2460	—	20	—
			340,360,380	550	450									14	—	—	14				
			400,420,440	650	540									14	—	—	14				
WG22	900000	950	320	470	380	950	—	850	—	665	820	—	60	14	—	—	14	2775	—	26	—
			340,360,380	550	450									14	—	—	14				
			400,420,440,450,460	650	540									14	—	—	14				
WG23	1000000	900	360,380	550	450	1030	—	900	—	710	880	—	60	14	—	—	14	3148	—	29	—
			400,420,440,450,460,480,500	650	540									14	—	—	14				
WG24	1250000	850	380	550	450	1060	—	925	—	730	900	—	70	16	—	—	16	3766	—	32	—
			400,420,440,450,460,480,500	650	540									16	—	—	16				
			520	800	680									16	—	—	16				




Big Electric Motor Shaft Coupling

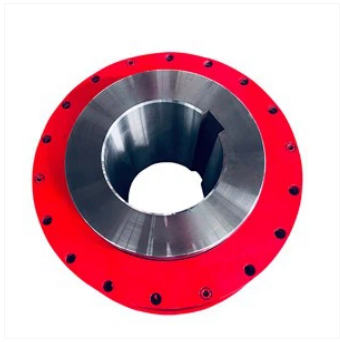
Big electric motor shaft coupling, as a mechanical engineering component, not only serve to connect and transmit power, but also provide overload protection. Construction machinery is one of the important application areas of couplings. The transmission system of modern construction machinery mostly adopts hydraulic transmission or mechanical transmission, and couplings are widely used in the mechanical transmission system of construction machinery, such as excavators, loaders, bulldozers, rollers, shovels and other equipment.

Description Technical Parameters

Brief Introduction

Couplings rotate together during the transmission of motion and power by connecting two shafts or shafts with rotating parts, and do not detach under normal circumstances. big electric motor shaft coupling can not only connect two shafts, but also connect shafts with other parts (such as gears, pulleys, etc.) to achieve the transmission of power and torque.
There are various types of couplings, including rigid couplings and flexible couplings. The latter, such as elastic couplings, diaphragm couplings, locking couplings, liquid couplings, and magnetic powder couplings, are suitable for different application scenarios.






What Are The Main Functions Of Electric Motor Shaft Couplings?

Connecting

Two shafts or shafts to a rotating component: Connecting two rotating shafts or shafts to a rotating component to achieve the transmission of power and torque.

Compensation Offset

It can compensate for installation errors between two axes, including axial offset, radial offset, and angular offset, reducing mechanical failures caused by installation errors.

Buffer And Shock Absorption

Some couplings have buffer and shock absorption functions, which can absorb vibration and impact, improve the stability and service life of mechanical systems.

Overload Protection

In some cases, couplings can be used as safety devices to prevent the connected components from bearing excessive loads, providing overload protection.

Couplings are widely used in power transmission equipment such as motors, water pumps, and compressors. Different types of couplings are suitable for different working conditions and performance requirements, and choosing the appropriate coupling type is crucial to ensure the normal operation of mechanical systems. So, how to choose the appropriate big electric motor shaft coupling?

The size and nature of the required transmitted torque, the requirements for buffering and damping functions, and the possibility of resonance.

The degree of relative displacement between the two axis lines caused by manufacturing and assembly errors, shaft loading and thermal expansion deformation, and relative motion between components.

The permissible external dimensions and installation methods, as well as the necessary operating space for assembly, adjustment, and maintenance. For large couplings, they should be able to be disassembled and assembled without the need for axial movement of the shaft.

In addition, the working environment, service life, lubrication, sealing, and economy should also be considered, and the appropriate type of coupling should be selected based on the characteristics of various types of couplings.

Technical Data

Application	Engineering machinery, metallurgical equipment, steel machinery, mining machinery, chemical machinery, paper-making machinery, printing machinery, textile machinery, food machinery, etc
Series	GICL,GIICL,GICLZ,GIICLZ
HS code	8483600090
Frame size	GICL1~30,GUUCL1~25,GICLZ1~30,GIICLZ1~25
Standard	GB/T19001-2016/ISO 9001:2015;JB/T8854.3-2001

Tn(N*m)	0.4~3500000
Speed	460~7100rpm
Moment of inertia (kg*m)2	0.0084~8000
Weight(kg)	5~28000

Industrial Application

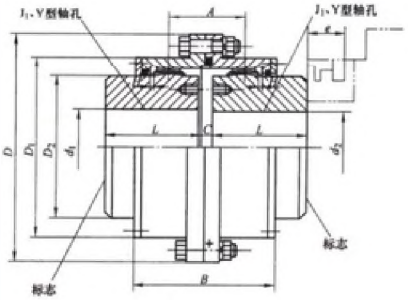

Aluminium


Mining

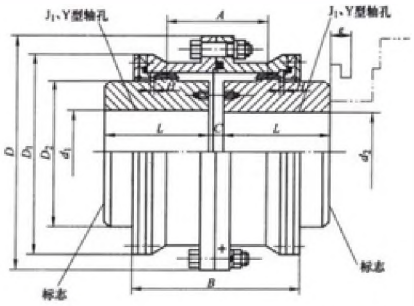

Steel


Rolling

Dimensions And Parts' Codes



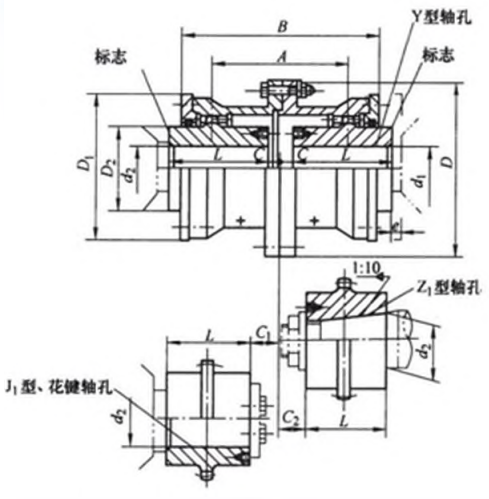
GⅡCL1～GⅡCL13 型鼓形齿式联轴器



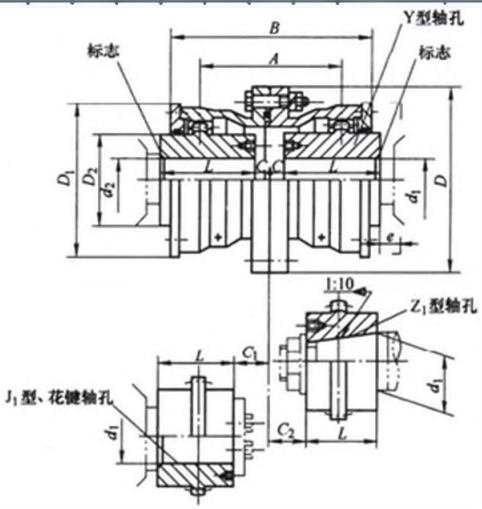
GⅡCL14～GⅡCL25 型鼓形齿式联轴器

型号	公称转矩 T_n/kN·m	许用转速[n] /r·min^{-1}	轴孔直径 d_1,d_2	轴孔长度L Y	轴孔长度L J_1	D	D_1	D_2	C	H	A	B	e	转动惯量 /kg·m^2	润滑油用量 /mL	质量 /kg
			mm													
GⅡCL1	0.4	4000	16,18,19	42	—	103	71	50	8	2	36	76	68	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
GⅡCL2	0.71	4000	20,22,24	52	—	115	83	60	8	2	42	88	42	0.00575	70	4.9
			25,28	62	44									0.00550		4.5
			30,32,35,38	82	60									0.006		5.1
			40,42,45	112	84									0.00675		6.2
GⅡCL3	1.12	4000	22,24	52	—	127	95	75	8	2	44	90	42	0.0105	68	7.5
			25,28	62	44									0.010		7
			30,32,35,38	82	60									0.010		6.9
			40,42,45,48,50,55,56	112	84									0.0113		8.6
GⅡCL4	1.8	4000	38	82	60	149	116	90	8	2	49	98	42	0.02	87	10.1
			40,42,45,48,50,55,56	112	84									0.0223		12.2
			60,63,65	142	107									0.0245		14.5
GⅡCL5	3.15	4000	40,42,45,48,50,55,56	112	84	167	134	105	10	2.5	55	108	42	0.0378	125	16.4
			60,63,65,70,71,75	142	107									0.0433		19.6
GⅡCL6	5.00	4000	45,48,50,55,56	112	84	187	153	125	10	2.5	56	110	42	0.0663	148	22.1
			60,63,65,70,71,75	142	107									0.075		26.5
			80,85,90	172	132									0.0843		31.2
GⅡCL7	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
GⅡCL8	10.00	3300	55,56	112	84	230	186	155	12	3	67	142	147	0.167	268	35.5
			60,63,65,70,71,75	142	107									0.188		42.3
			80,85,90,95	172	132									0.210		49.7
			100,110,(115)	212	167									0.241		60.2
GⅡCL9	16	3000	60,63,65,70,71,75	142	107	256	212	180	12	3	69	146	47	0.316	310	55.6
			80,85,90,95	172	132									0.356		65.6
			100,110,120,125	212	167									0.413		79.6
			130,(135)	252	202									0.470		95.8

型号	公称转矩 T_n/kN·m	许用转速[n] /r·min^{-1}	轴孔直径 d_1、d_2	轴孔长度L Y	轴孔长度L J_1	D	D_1	D_2	C	H	A	B	e	转动惯量 /kg·m^2	润滑脂用量 /mL	质量 /kg
			mm													
GⅡCL11	35.5	2350	70,71,75	142	107	352	276	235	14	3.5	81	170	47	1.454	550	97
			80,85,90,95	172	132									1.096		114
			100,110,120,125	212	167									1.235		138
			130,140,150	252	202									1.340		161
			160,170,(175)	302	242									1.588		189
GⅡCL12	50	2100	75	142	107	362	313	270	16	4	89	190	49	1.623	695	128
			80,85,90,95	172	132									1.828		150
			100,110,120,125	212	167									2.113		205
			130,140,150	252	202									2.40		213
			160,170,180	302	242									2.728		248
			190,200	352	282									3.055		285
GⅡCL13	71	1850	150	252	202	412	350	300	18	4.5	98	208	49	3.925	1019	269
			160,170,180,(185)	302	242									4.425		315
			190,200,220,(225)	352	282									4.918		360
GⅡCL14	112	1650	170,180,(185)	302	242	462	418	335	22	5.5	172	296	63	8.025	3900	421
			190,200,220	352	282									8.8		476
			240,250	410	330									9.725		544
GⅡCL15	180	1500	190,200,220	352	282	512	465	380	22	5.5	182	316	63	14.300	3700	608
			240,250,260	410	330									15.850		696
			280,(285)	470	380									17.45		786
GⅡCL16	250	1300	220	352	282	580	522	430	28	7	209	354	67	23.925	4500	799
			240,250,260	410	330									26.45		913
			280,300,320	470	380									29.1		1027
GⅡCL17	355	1200	250,260	410	330	644	582	490	28	7	198	364	67	43.095	4900	1176
			280,(290),300,320	470	380									47.525		1322
			340,360,(365)	550	450									53.725		1532
GⅡCL18	500	1050	280,(290),300,320	470	380	726	654	540	28	8	222	430	75	78.525	7000	1698
			340,360,380	550	450									87.750		1948
			400	650	540									99.500		2278
GⅡCL19	710	950	300,320	470	380	818	748	630	32	8	232	440	75	136.750	8900	2249
			340,(350),360,380(390)	550	450									153.750		2591
			400,420,440,450,460,(470)	650	540									175.5		3026
GⅡCL20	1000	800	360,380(390)	550	450	928	838	720	32	10.5	247	470	75	261.75	11000	3384
			400,420,440,450,460	650	540									299		3984
			480,500													
			530,(540)	800	680									360.75		4430



GICL1 ~ GICL14 型鼓形齿式联轴器



GICL15 ~ GICL30 型鼓形齿式联轴器

型号	公称转矩 T_n/N·m	许用转速[n] /r·min^{-1}	轴孔直径 d_1,d_2,d_z	轴孔长度L Y	轴孔长度L J_1,Z_1	D	D_1	D_2	B	A	C	C_1	C_2	e	转动惯量 /kg·m^2	润滑脂用量 /mL	质量 /kg
			mm														
GICL1	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							15	22				
GICL2	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							13.5	28				
GICL3	2800	5900	30,32,35,38	82	60	170	140	95	155	100	3	24.5	25	30	0.047	140	17.2
			40,42,45,48,50,55,56	112	84							17	28				
			60	142	107								35				
GICL4	5000	5400	32,35,38	82	60	195	165	115	178	125	14	37	32	30	0.091	170	24.9
			40,42,45,48,50,55,56	112	84						3	17	28				
			60,63,65,70	142	107								35				
GICL5	8000	5000	40,42,45,48,50,55,56	112	84	225	183	130	198	142	3	25	28	30	0.167	270	38
			60,63,65,70,71,75	142	107							20	35				
			80	172	132							22	43				
GICL6	11200	4800	48,50,55,56	112	84	240	200	145	218	160	6	35	35	30	0.267	380	48.2
			60,63,65,70,71,75	142	107						4	20					
			80,85,90	172	132							22	43				
GICL7	15000	4500	60,63,65,70,71,75	142	107	260	230	160	244	180	4	25	35	30	0.453	570	68.9
			80,85,90,95	172	132							22	43				
			100	212	167								48				
GICL8	21200	4000	65,70,71,75	142	107	280	245	175	264	193	5	35	35	30	0.646	660	83.3
			80,85,90,95	172	132							22	43				
			100,110	212	167								48				
GICL9	26500	3500	70,71,75	142	107	315	270	200	284	208	10	45	45	30	1.036	700	110
			80,85,90,95	172	132						5	22	43				
			100,110,120,125	212	167								49				
GICL10	42500	3200	80,85,90,95	172	132	345	300	220	330	249	5	43	43	30	1.88	900	156.7
			100,110,120,125	212	167							22	49				
			130,140	252	202							29	54				
GICL11	60000	3000	100,110,120	212	167	380	330	260	360	267	6	29	49	40	3.28	1200	217.1
			130,140,150	252	202								54				
			160	302	242								64				
GICL12	80000	2600	120	212	167	440	380	290	416	313	6	57	57	40	5.08	2000	305.1
			130,140,150	252	202							29	55				
			160,170,180	302	242								68				
GICL13	112000	2300	140，150	252	202	480	420	320	476	364	7	54	57	40	10.06	3000	419.4
			160，170，180	302	242							32	70				
			190，200	352	282								80				
GICL14	160000	2100	160，170，180	302	242	520	465	360	532	415	8	42	70	40	16.774	4500	593.9
			190，200，220	352	282							32	80				
GICL15	224000	1900	190，200，220	352	282	580	510	400	556	429	10	34	80	40	26.55	5000	783.3
			240，250	410	330							38	—				
GICL16	355000	1600	200，220	352	282	680	595	465	640	501	10	58	80	50	52.22	8000	1134.4
			240，250，260	410	330							38	—				
			280	470	380												
GICL17	400000	1500	220	352	282	720	645	495	672	512	10	74	80	50	69	10000	1305
			240，250，260	410	330							39	—				
			280，300	470	380												
GICL18	500000	1400	240，250，260	410	330	775	675	520	702	524	10	46	—	50	96.16	11000	1626
			280，300，320	470	380							41					
GICL19	630000	1300	260	410	330	815	715	560	744	560	10	67	—	50	115.6	13000	1773
			280，300，320	470	380							41					
			340	550	450												
GICL20	710000	1200	280，300，320	470	380	855	755	585	786	595	13	44	—	50	167.41	16000	2263
			340，360	550	450												
GICL21	900000	1100	300，320	470	380	915	795	620	808	611	13	59	—	50	215.7	20000	2593
			340，360，380	550	450							44					
			400*	650	540												
GICL22	950000	950	340，360，380	550	450	980	840	665	830	632	13	44	—	60	278.07	26000	3036
			400，420	650	540												




DC Series Gear Motor Coupling

Couplings are very important mechanical transmission components, made of materials such as cast iron, steel, aluminum alloy, and stainless steel. Different materials have different characteristics and applications. DC series gear motor coupling are widely used in various mechanical transmission fields, including engineering machinery, metallurgical equipment, steel machinery, mining machinery, chemical machinery, paper-making machinery, printing machinery, textile machinery, food machinery and other fields.

Description Technical Parameters

Brief Introduction

DC series gear motor coupling is one kind of cast iron coupling connected with Z series high hp dc motor and equipment load like reducer, crusher,shredder,etc.

Cast iron couplings are a common type of coupling, mainly composed of elements such as carbon, silicon, manganese, sulfur, and phosphorus. Cast iron has good wear resistance and corrosion resistance, and is relatively inexpensive, so cast iron couplings are commonly used in some small and medium-sized mechanical equipment. However, the strength and toughness of cast iron couplings are relatively poor, making them unsuitable for use under relatively high speeds and load conditions.




In the fields of food processing and chemical engineering, cast iron couplings are rarely used. The most common type is stainless steel couplings, which have good corrosion resistance and high temperature performance, and are suitable for use in some mechanical equipment in special environments. However, their price is relatively high, so they are only suitable for special application scenarios.

In actual production, we also manufacture aluminum alloy couplings. It has the advantages of good corrosion resistance and light weight, and is suitable for some mechanical equipment that needs to reduce weight and increase speed. However, the strength and wear resistance of aluminum alloy couplings are relatively poor, making them unsuitable for use under high load and high impact conditions.

The last widely used type is the steel coupling. It is made of high-strength steel with high strength and toughness. DC series gear motor coupling are suitable for mechanical equipment operating at high speeds and under heavy load conditions, including ships, generators, and other large equipment that are commonly used. However, steel couplings are relatively expensive and require regular maintenance and upkeep.

How to maintain different couplings that are suitable for different occasions and working conditions to ensure their normal operation and extend their service life?
1. Couplings are not allowed to have any deviation or radial displacement beyond the specified axis to avoid affecting their transmission performance;
2. After installing the DC series gear motor coupling, all fastening screws should be checked for looseness and repeatedly checked after normal operation to ensure that they do not loosen;
3. The sliding surface, crosshead, bearings, etc. of the coupling must be lubricated, and appropriate lubricating grease should be used. The refueling frequency should be determined according to the working conditions;
4. During daily maintenance, if normal wear phenomena such as indentation are found, they should be replaced in a timely manner; Couplings are not allowed to have cracks, and if there are cracks, they need to be replaced;
5. When using couplings, avoid operating in damp, dusty, or vibrating environments;
6. The installation error of the coupling should be strictly controlled, and it is usually required that the installation error should not exceed 1/2 of the allowable compensation amount.

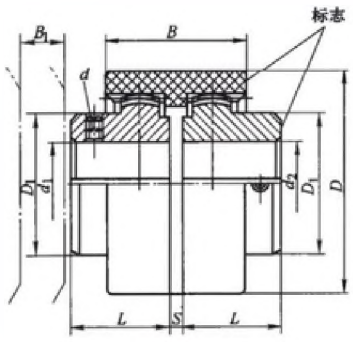
Choosing a suitable DC series gear motor coupling requires consideration of multiple factors. A suitable coupling not only ensures safe production, but also helps improve production efficiency and reduce production costs, making it an important part that enterprises cannot ignore.

Technical Data

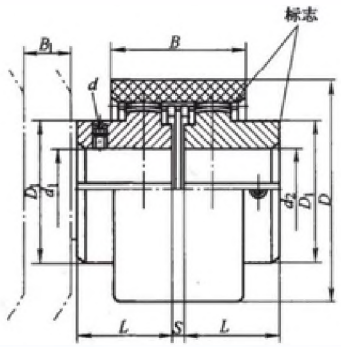
Application	Electric motors, fans, water pumps, reducers, compressors, crushers, injection molding machines, winches, rolling mills, cutting machines, extruders, machine tools,etc
Series	GSL,TGL,CL,NL,CLZ
HS code	8483600090
Frame size	GSLZ~F;TGLA1~A12;CL1~19;NL1~10,CLZ1~19
Standard	GB/T19001-2016/ISO 9001:2015;JB/T5514-2007
Tn(N*m)	10~1000000
Speed	1800~10000rpm
Moment of inertia (kg*m)2	0.00003~1300
Weight(kg)	0.2~5200

Industrial Application

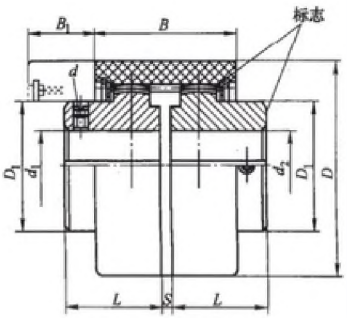
Dimensions And Parts'codes



TGLA 型鼓形齿式联轴器



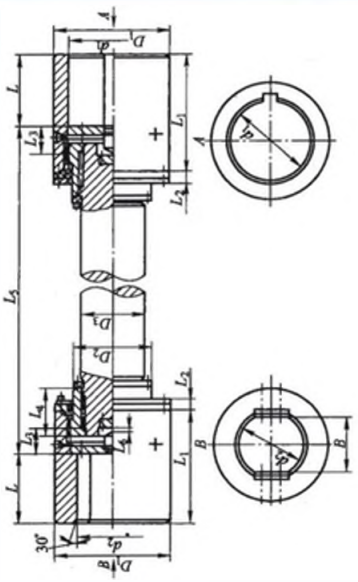
TGLB 型鼓形齿式联轴器

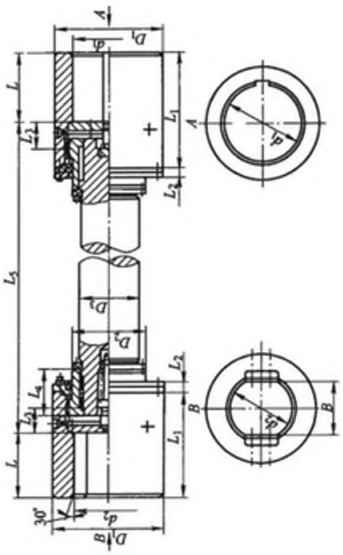


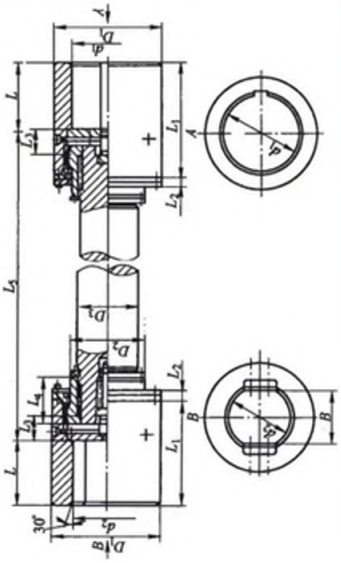
TGLC 型鼓形齿式联轴器

型号	公称转矩 T_n/N·m	许用转速[n] /r·min^{-1}	轴孔直径 d_1,d_2	轴孔长度	D		D_1	B		B_1		S	d	质量/kg		转动惯量I /kg·m^2	
				J_1 L	A型 B型	C型		A型 B型	C型	A型 B型	C型			A型 B型	C型	A型 B型	C型
TGLA1 TGLB1	10	10000	6,7	16	40	—	25	38	—	17	—	4	—	0.200	—	0.00003	—
			8,9	20									M5				
			10,11	22													
			12,14	27													
TGLA2 TGLB2	16	9000	8,9	20	48	—	32	38	—	17	—	4	M5	0.278	—	0.00006	—
			10,11	22													
			12,14	27													
			16,18,19	30													
TGLA3 TGLB3 TGLC3	31.5	8500	10,11	22	56	58	36	42	52	19	—	4	M5	0.462	0.533	0.00012	0.00015
			12,14	27							24						
			16,18,19	30													
			20,22,24	38													
TGLA4 TGLB4 TGLC4	45	8000	12,14	27	66	70	45	46	—	21	26	4	M8	0.815	0.869	0.00033	0.0004
			16,18,19	30					56								
			20,22,24	38													
			25,28	44													
TGLA5 TGLB5 TGLC5	63	7500	14	27	75	85	50	48	—	22	27	4	M8	1.39	1.52	0.00072	0.00088
			16,18,19	30					58								
			20,22,24	38													
			25,28	44													
			30,32	60													
TGLA6 TGLB6 TGLC6	80	6700	16,18,19	30	82	90	58	48	58	22	27	4	M8	2.02	2.15	0.0012	0.0015
			20,22,24	38													
			25,28	44													
			30,32,35,38	60													
TGLA7 TGLB7 TGLC7	100	6000	20,22,24	38	92	100	65	50	60	23	28	4	M8	3.01	3.14	0.0024	0.0027
			25,28	44													
			30,32,35,38	60													
			40,42	84													
TGLA8 TGLB8 TGLC8	140	5600	22,24	38	100	100	72	50	60	23	28	4	M8	4.06	4.18	0.0037	0.0039
			25,28	44													
			30,32,35,38	60													
			40,42,45,48	84													

型号	公称转矩 T_n/N·m	许用转速[n] /r·min^{-1}	轴孔直径 d_1,d_2	轴孔长度	D		D_1	B		B_1		S	d	质量/kg		转动惯量I /kg·m^2	
				J_1 L	A型 B型	C型		A型 B型	C型	A型 B型	C型			A型 B型	C型	A型 B型	C型
TGLA9 TGLB9 TGLC9	355	4000	25,28	44	140	140	96	72	85	34	41	4	M10	8.25	8.51	0.0155	0.0166
			30,32,35,38	60													
			40,42,45,48,50,55,56	84													
			60,63,65,70	107													
TGLA10 TGLB10 TGLC10	710	3150	30,32,35,38	60	175	175	128	95	95	45	45	6	M10	16.92	17.10	0.0520	0.0535
			40,42,45,48,50,55,56	84													
			60,63,65,70,71,75	107													
			80,85	132													
TGLA11 TGLB11 TGLC11	1250	3000	40,42,45,48,50,55,56	84	210	210	165	102	102	48	48	8	M10	34.26	34.56	0.1624	0.165
			60,63,65,70,71,75	107													
			80,85,90,95	132													
			100,110	167													
TGLA12 TGLB12 TGLC12	2500	2120	50,55,56	84	270	270	192	135	135	63	63	10	M16	66.42	66.86	0.4674	0.4731
			60,63,65,70,71,75	107													
			80,85,90,95	132													
			100,110,120,125	167													







型号	公称转矩 T_n/N·m	圆柱形轴孔尺寸		扁孔形轴孔尺寸			D_1	D_2	D_3	L_1	L_2	L_3	L_4	L_5 min	L_6	质量m/kg		转动惯量I/kg·m²		润滑油用量/ml
		d_1,d_2	L / L_1型	d_2 max	L max	B max										L_0min质量	增长每米的质量	L_0min的转动惯量	增长每米的转动惯量	
WGJ1	6.3	60,63	107	80	132	60	130	85	70	170	30	35	90	500	3	46	30.2	0.05	0.018	150
		65,70																		
		71,75																		
		80	132							195										
WGJ2	11.2	70,71,75	107	100	167	75	160	110	90	175	30	40	110	500	3	76	49.9	0.28	0.05	250
		80,85	132							200										
		90,95																		
		100	167							235										
WGJ3	18	80,85	132	110	167	85	180	120	100	210	32	46	120	600	3	105	61.65	0.43	0.07	350
		90,95																		
		100,110	167							245										
WGJ4	25	80,85	132	125	167	95	200	140	110	220	32	50	140	600	3	140	74.6	0.73	0.158	450
		90,95																		
		100,110,120,125	167							253										
WGJ5	31.5	90,95	132	140	202	105	230	160	130	225	38	54	160	600	5	200	104	1.43	0.22	650
		100,110	167							260										
		120,125																		
		130,140	202							295										
WGJ6	50	110,120	167	160	242	120	260	180	140	287	38	84	180	800	5	280	121	2.56	0.296	900
		130	202							322										
		140,150																		
		160	242							362										
WGJ7	63	140,150	202	190	282	140	280	200	160	336	38	85	200	800	5	380	158	4.26	0.501	1400
		160	242							376										
		170,180																		
		190	282							416										
WGJ8	80	160,170,180	242	200	282	160	300	220	180	392	44	95	220	1000	5	480	200	6.02	0.81	1800
		190,200	282							432										
WGJ9	100	170,180	242	220	282	170	330	230	200	392	44	95	230	1000	5	550	247	7.95	1.24	2100
		190,200,220	282							432										
WG10	125	190,200,220	282	240	330	180	355	250	220	442	51	98	250	1000	5	720	298	12.7	1.8	2500
		240	330							490										
WGJ11	200	190,200,220	282	260	330	200	410	290	240	457	51	106	280	1200	5	1110	355	25.95	2.56	3000
		240,250,260	330							505										
WGJ12	315	240,250,260	330	300	380	220	460	320	260	518	57	112	300	1200	6	1480	417	43.43	3.52	4000
		280,300	380							568										
WGJ13	450	280,300,320	380	340	450	250	510	360	300	596	57	136	340	1400	6	2020	555	71.76	6.24	5200
		340	450							666										
WGJ14	560	300,320	380	360	450	280	560	400	320	628	64	145	380	1500	6	2600	631	114.4	8.1	6500
		340,360	450							698										
WGJ15	710	340,360,380	450	400	540	300	610	430	350	716	64	160	400	1500	6	3300	755	178	11.6	8000
		400	540							806										
WG16	900	360,380	550	420	650	320	660	460	380	842	64	172	440	1600	10	4300	890	272	16	10000
		400,420	650							942										
WGJ17	1120	400,420,440,450,460	650	460	650	350	710	500	470	964	64	182	480	1800	10	5500	1090	392	24	12000
WGJ18	1250	420,440,450,460,480,500	650	500	650	380	760	540	460	990	76	195	520	2000	10	6700	1310	553	35	15000
WGJ19	1600	440,450,460,480,500	650	530	800	400	810	580	500	1005	76	215	540	2000	10	8350	1540	805	48	16500
		530	800							1155										
WGJ20	2000	450,460,480,500	650	560	800	420	860	600	530	1031	76	225	560	2000	10	9500	1730	1024	61	18500
		530,560	800							1181										
WGJ21	2240	480,500	650	600	800	450	910	650	560	1056	76	236	600	2500	10	11500	1930	1334	75.66	21000
		530,560,600	800							1206										
WGJ22	2800	530,560,600,630	800	630	800	480	965	680	600	1230	82	246	640	2500	13	12600	2220	1621	99.9	24000
WGJ23	3150	560,600,630	800	670	900	500	1000	710	630	1250	82	265	680	2500	13	17900	2450	2579	122	27000
		670	900							1350										

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