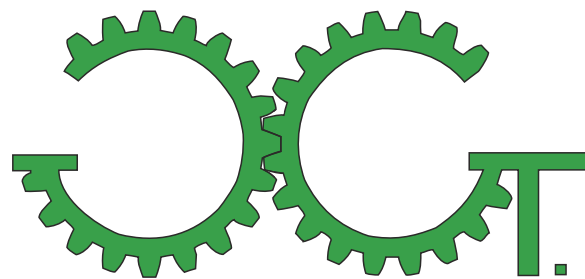


Green Gear Trasmissioni S.r.l.



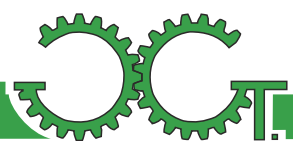
CATALOGUE - GEAR COUPLINGS - 2015 EDITION





Green Gear Trasmissioni S.r.l.

CATALOGUE - FGC 2015 EDITION



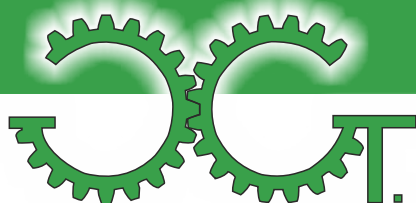
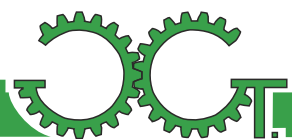
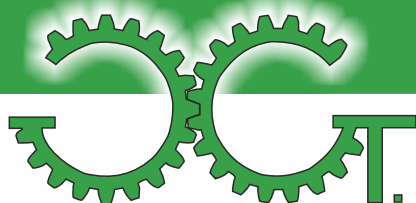


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GGT GEAR COUPLINGS – FGC SERIES

COMPOSITION

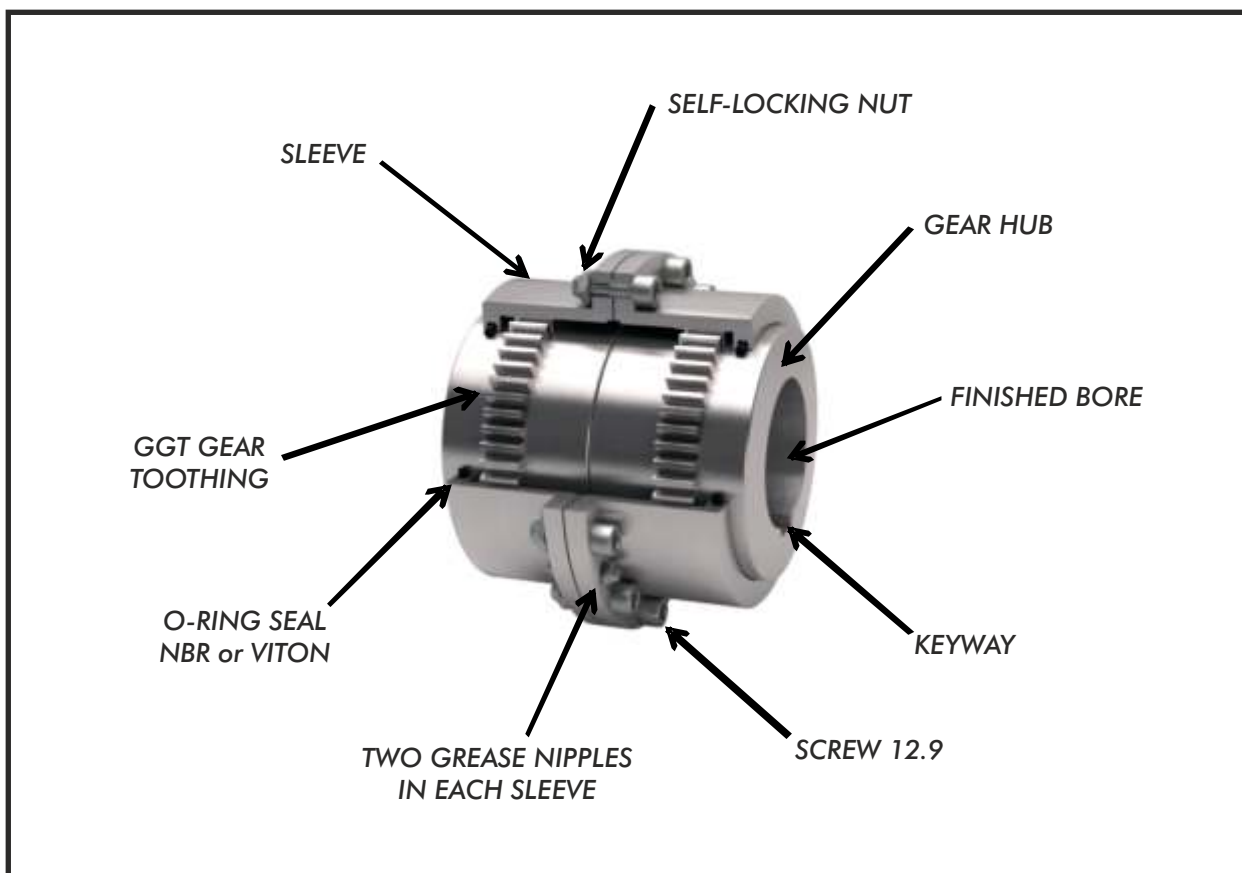


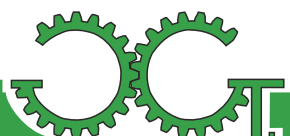
Fig.1

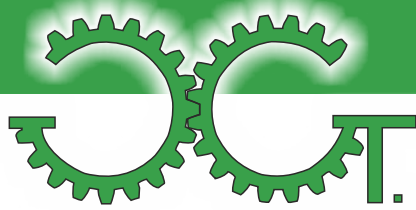


Fig.2

HEAT TREATMENT & RAW MATERIALS

The GGT (Green Gear transmissions Srl) gear couplings of the FGC series are manufactured and available made of quenched and tempered steel AISI1045, AISI4140 or stainless steel AISI630. Class 12.9 bolts, galvanized steel grease nipples and o-rings in rubber NBR, Viton and/or silicone, upon request.





DIMENSIONING

a) Calculate the torque to be transmitted, considering service factor SF (see fig.4) and torque factor KD , following the formula on the right;

$$T = \frac{P \times 9,55}{n} \times SF \times KD \quad [\text{kNm}]$$

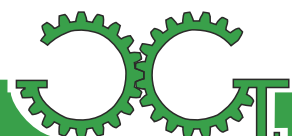
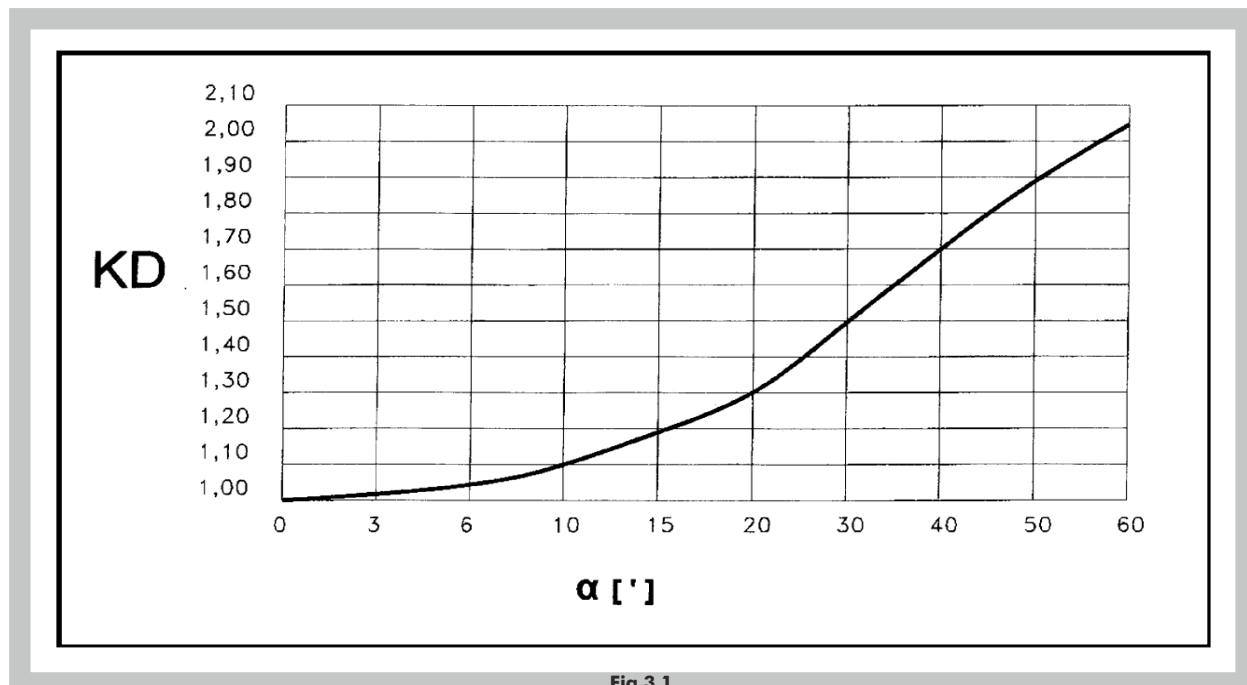
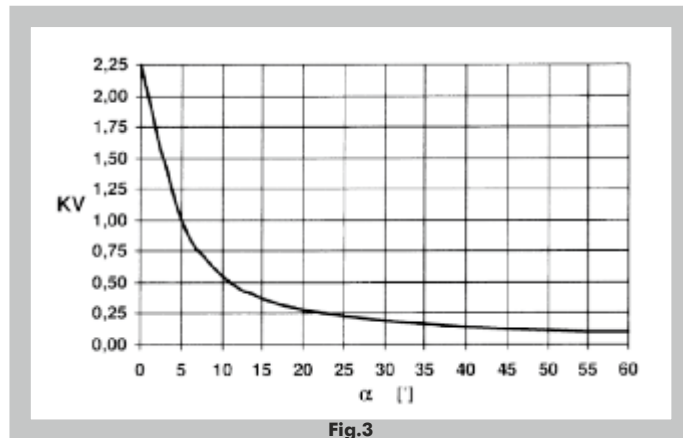
P = absorbed power [kW]

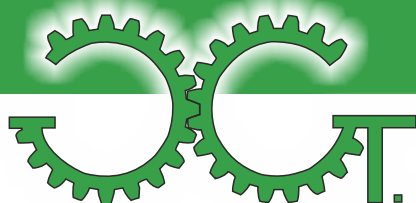
N = speed [rpm]

T = application torque [kNm]

b) Confirm the preliminary selection by cross checking the diameter of the shafts to be fitted onto the hubs;

c) Check that max speed n has to be equal or lower than the selected size coupling max speed multiplied by the speed factor KV , depending on operating misalignment α , shown on fig.3;





SERVICE FACTOR

SERVICE FACTOR "SF"		Reciprocating compressors	2
		Cold strip mills	
		Calenders	
1.5	Agitators for pure liquids	Travelling cranes	2.5
	Electric generators	Winders	
	Fans	Presses	
	Centrifugal pumps	Tapping machines	
1.75	Belt conveyors	Crushers	3
	Case-work pumps	Calenders	
	Double acting pumps	Rubber mixers	
	Gear pumps	Roller tables	
	Bucket belt conveyors	Hot rolling mills	
	Chain belt conveyors	Screwdown controls	
	Screw belt conveyors	Coilers	
Centrifugal compressors	Reversing cold mills		

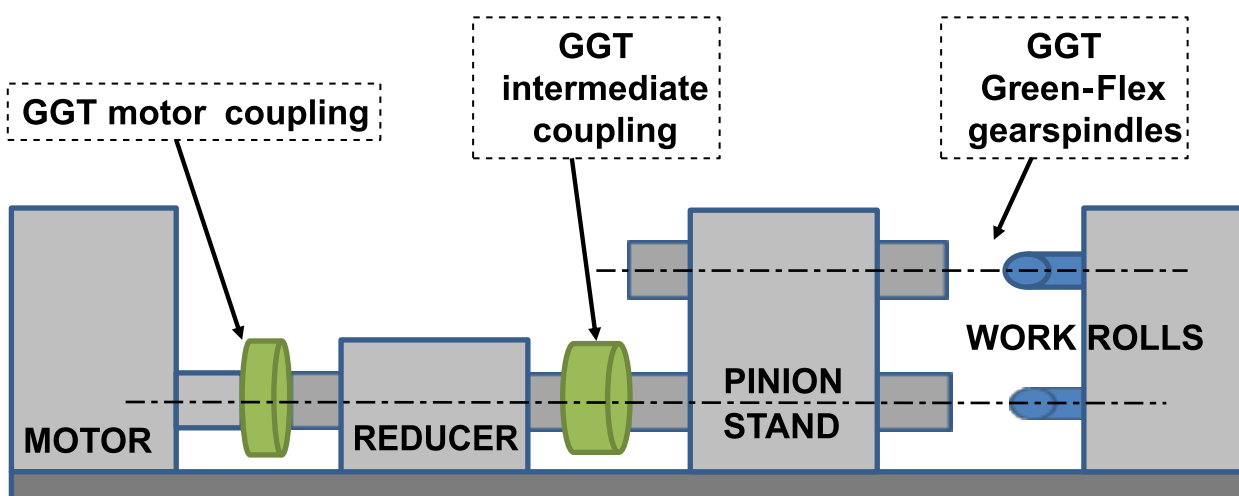
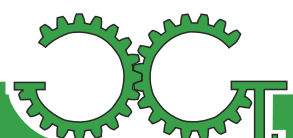
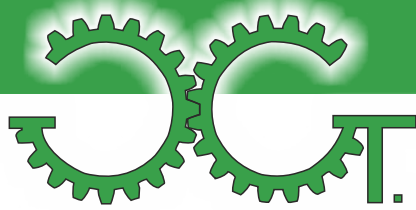


Fig.4.1 Kinematic chain





MISALIGNMENT

The principle of operation of the gear couplings, synthetically illustrated in Figure 2, is based on fitting of the external tothing of the hub with the internal tothing of the sleeve, which allows the transmission of torque between the flanges. The relative offset is compensated by the axial movement of the internal gear teeth on the outer tothing.

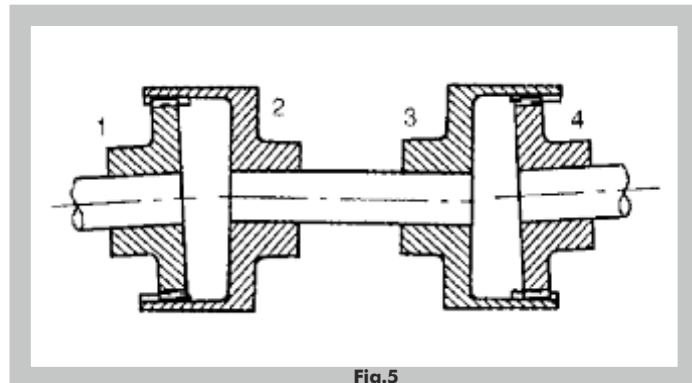


Fig.5

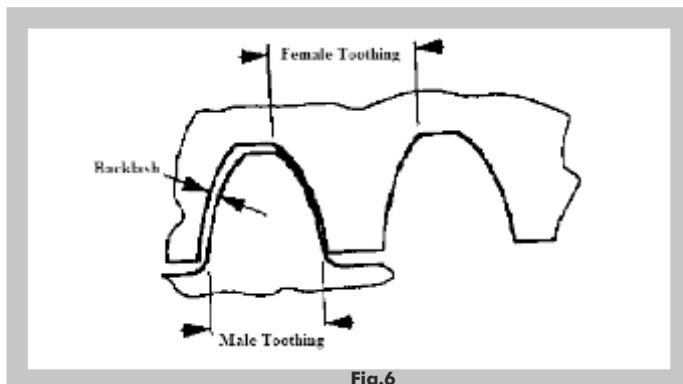


Fig.6

Using the crowned teeth, our gear couplings ensure optimal connections and torsionally rigid, between the most various machines and devices, even with moderate misalignment, axial and radial displacements.

Max dynamic misalignment compensated by GGT tothing:

- Standard Gear Couplings: $0^{\circ}20'$
- With additional heat treatment: $0^{\circ}30'$

GGT TOOTHING

The crowned gear teeth of GGT gear couplings, FGC series, have been designed to ensure conditions of misalignment in a larger contact surface.

The displacement of the used profile determines the increase of the thickness of the tooth and therefore the resistance of the teeth.

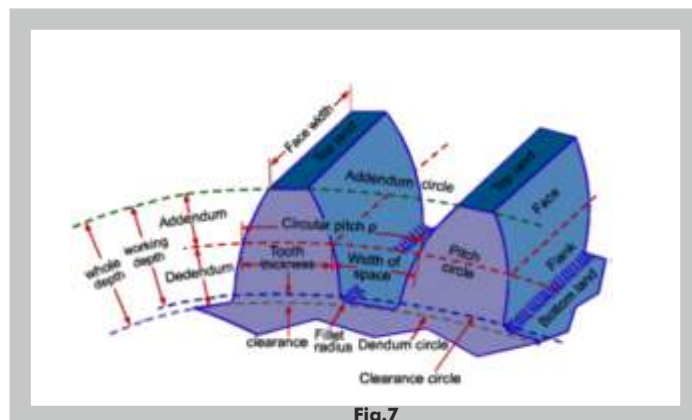
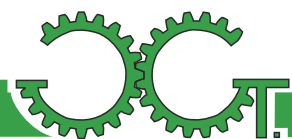
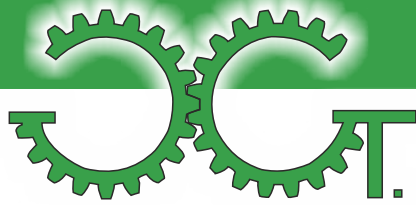


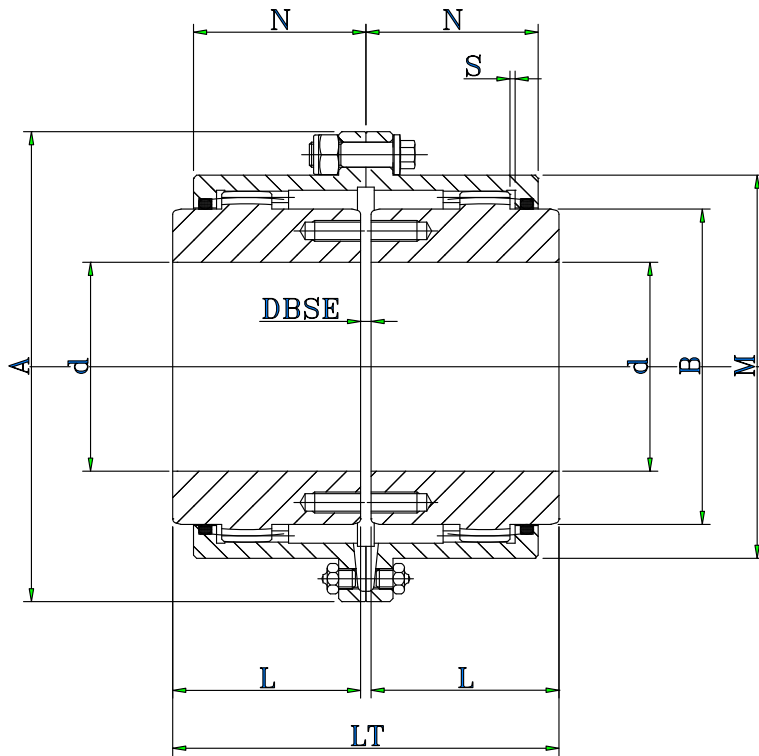
Fig.7





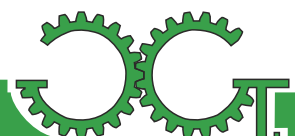
STANDARD GEAR COUPLINGS

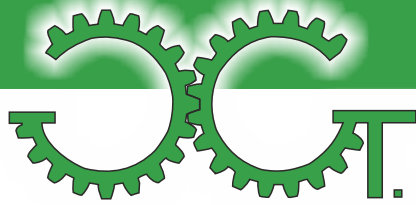
FGC SERIES



SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT [mm]	M [mm]	N [mm]	DBSE [mm]	Weight [kg]
FGC.96	1.9	4.2	6000	52	111	68	43	89	82.5	39	3	4.2
FGC.122	2.9	6.8	4550	62	142	86	50	103	104.6	45.5	3	7.6
FGC.148	5.7	14.0	4000	78	168	105	62	127	130.5	59	3	13.5
FGC.178	9.0	21.5	3900	98	200	132	76	157	158.4	68	5	25
FGC.203	14.5	35.0	3700	112	225	151	90	185	183.4	82.5	5	37
FGC.236	22.8	54.7	3550	132	265	179	105	216	211.5	93	6	60
FGC.270	34.8	83.5	3000	156	300	209	120	246	245.5	106	6	90
FGC.300	45.8	110	2750	174	330	234	135	278	275	118	8	124
FGC.335	70.8	170	2420	190	370	255	150	308	307	138	8	170
FGC.368	85.4	205	2270	210	406	280	175	358	335	154	8	233
FGC.400	150	360	1950	233	439	306	190	388	367	166	8	298
FGC.460	200	480	1730	280	505	356	220	450	423	193	10	457

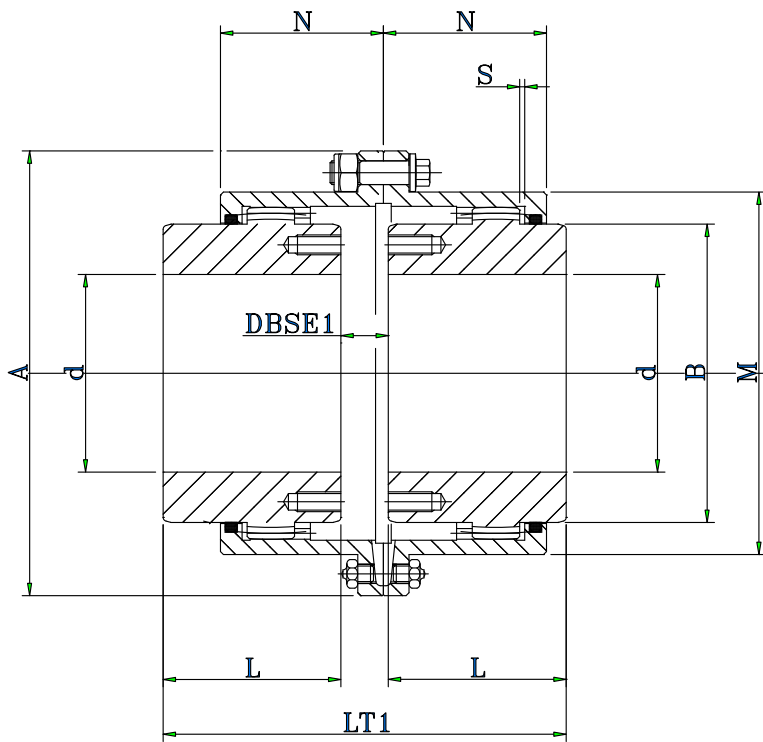
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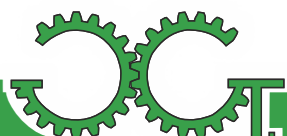
STANDARD GEAR COUPLINGS WITH ONE REVERSE HUB

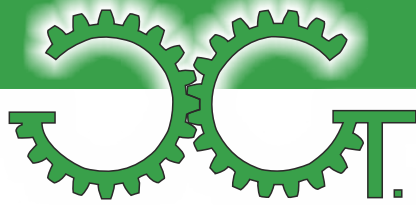
FGC.R SERIES



SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT1 [mm]	M [mm]	N [mm]	DBSE1 [mm]	Weight [kg]
FGC.96.R	1.9	4.2	6000	52	111	68	43	91	82.5	39	5	4.2
FGC.122.R	2.9	6.8	4550	62	142	86	50	108	104.6	45.5	8	7.6
FGC.148.R	5.7	14.0	4000	78	168	105	62	138	130.5	59	14	13.5
FGC.178.R	9.0	21.5	3900	98	200	132	76	170	158.4	68	12	25
FGC.203.R	14.5	35.0	3700	112	225	151	90	204	183.4	82.5	24	37
FGC.236.R	22.8	54.7	3550	132	265	179	105	237	211.5	93	27	60
FGC.270.R	34.8	83.5	3000	156	300	209	120	272	245.5	106	32	90
FGC.300.R	45.8	110	2750	174	330	234	135	307	275	118	37	124
FGC.335.R	70.8	170	2420	190	370	255	150	350	307	138	50	170
FGC.368.R	85.4	205	2270	210	406	280	175	403	335	154	53	233
FGC.400.R	150	360	1950	233	439	306	190	438	367	166	58	298
FGC.460.R	200	480	1730	280	505	356	220	512	423	193	72	457

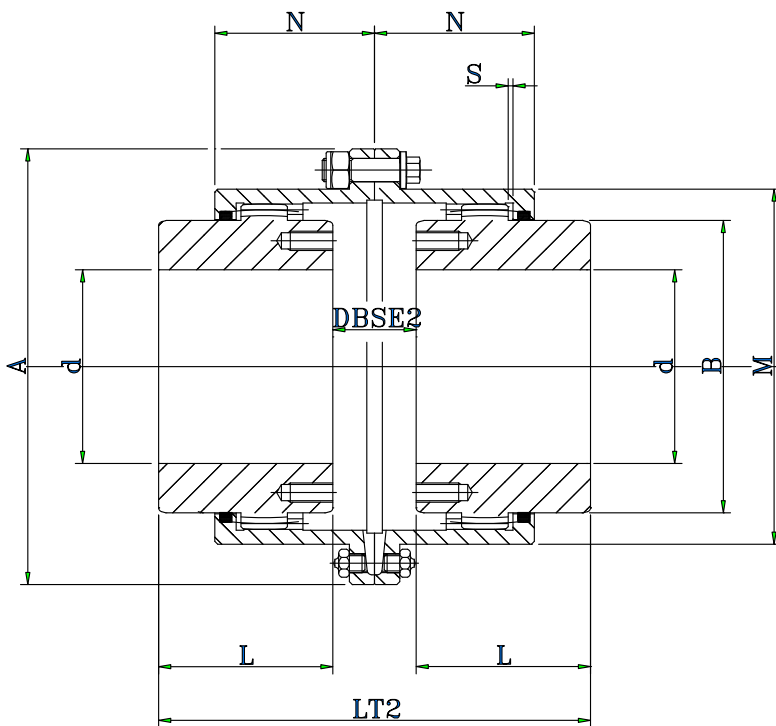
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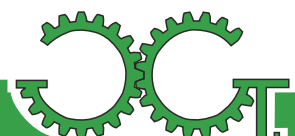
STANDARD GEAR COUPLINGS WITH BOTH REVERSE HUBS

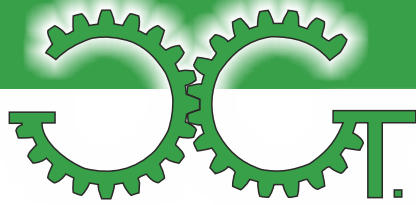
FGC.RR SERIES



SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT2 [mm]	M [mm]	N [mm]	DBSE2 [mm]	Weight [kg]
FGC.96.RR	1.9	4.2	6000	52	111	68	43	93	82.5	39	7	4.2
FGC.122.RR	2.9	6.8	4550	62	142	86	50	113	104.6	45.5	13	7.6
FGC.148.RR	5.7	14.0	4000	78	168	105	62	149	130.5	59	25	13.5
FGC.178.RR	9.0	21.5	3900	98	200	132	76	184	158.4	68	19	25
FGC.203.RR	14.5	35.0	3700	112	225	151	90	223	183.4	82.5	43	37
FGC.236.RR	22.8	54.7	3550	132	265	179	105	258	211.5	93	48	60
FGC.270.RR	34.8	83.5	3000	156	300	209	120	298	245.5	106	58	90
FGC.300.RR	45.8	110	2750	174	330	234	135	336	275	118	66	124
FGC.335.RR	70.8	170	2420	190	370	255	150	392	307	138	92	170
FGC.368.RR	85.4	205	2270	210	406	280	175	448	335	154	98	233
FGC.400.RR	150	360	1950	233	439	306	190	488	367	166	108	298
FGC.460.RR	200	480	1730	280	505	356	220	574	423	193	134	457

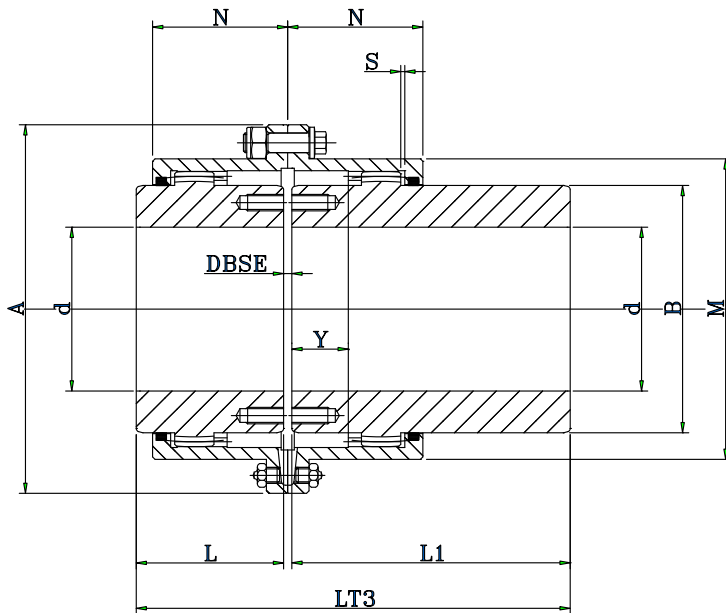
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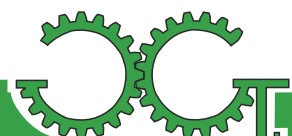
GEAR COUPLINGS WITH ONE LONG HUB

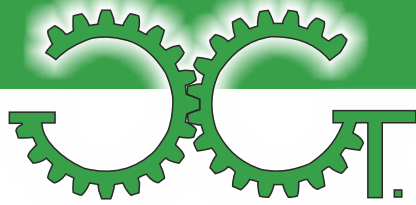
FGC.L SERIES



SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L1 [mm]	LT3 [mm]	M [mm]	N [mm]	Y [mm]	DBSE [mm]	Weight [kg]
FGC.96.L	1.9	4.2	6000	52	111	68	105	151	82.5	39	12	3	6.1
FGC.122.L	2.9	6.8	4550	62	142	86	115	168	104.6	45.5	16	3	10.3
FGC.148.L	5.7	14.0	4000	78	168	105	130	195	130.5	59	22	3	18.25
FGC.178.L	9.0	21.5	3900	98	200	132	150	231	158.4	68	26	5	33
FGC.203.L	14.5	35.0	3700	112	225	151	170	265	183.4	82.5	38	5	48.5
FGC.236.L	22.8	54.7	3550	132	265	179	185	296	211.5	93	45	6	75.5
FGC.270.L	34.8	83.5	3000	156	300	209	215	296	245.5	106	50	6	115.5
FGC.300.L	45.8	110	2750	174	330	234	245	341	275	118	58	8	161.5
FGC.335.L	70.8	170	2420	190	370	255	295	388	307	138	70	8	227.5
FGC.368.L	85.4	205	2270	210	406	280	300	453	335	154	80	8	292.5
FGC.400.L	150	360	1950	233	439	306	305	483	367	166	86	8	363
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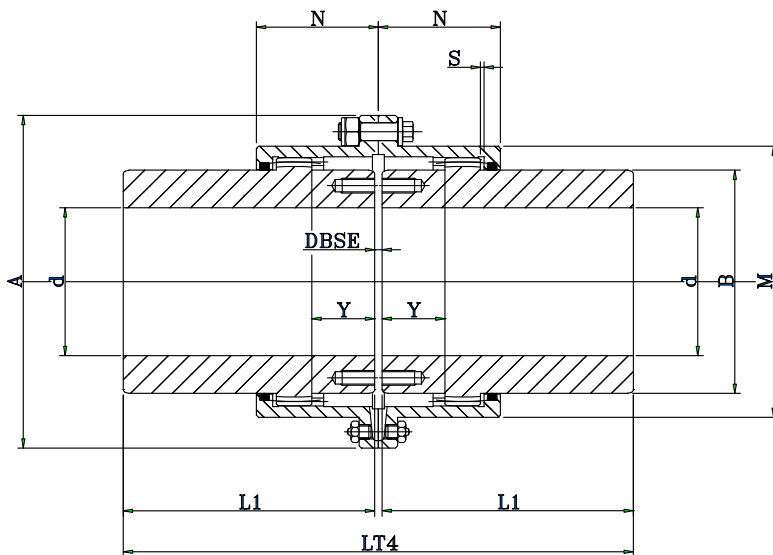
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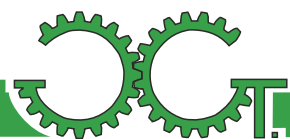
GEAR COUPLINGS WITH BOTH LONG HUBS

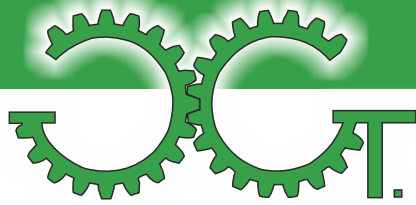
FGC.LL SERIES



SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L1 [mm]	LT4 [mm]	M [mm]	N [mm]	Y [mm]	DBSE [mm]	Weight [kg]
FGC.96.LL	1.9	4.2	6000	52	111	68	105	213	82.5	39	12	3	8
FGC.122.LL	2.9	6.8	4550	62	142	86	115	233	104.6	45.5	16	3	13
FGC.148.LL	5.7	14.0	4000	78	168	105	130	263	130.5	59	22	3	23
FGC.178.LL	9.0	21.5	3900	98	200	132	150	305	158.4	68	26	5	41
FGC.203.LL	14.5	35.0	3700	112	225	151	170	345	183.4	82.5	38	5	60
FGC.236.LL	22.8	54.7	3550	132	265	179	185	376	211.5	93	45	6	91
FGC.270.LL	34.8	83.5	3000	156	300	209	215	436	245.5	106	50	6	141
FGC.300.LL	45.8	110	2750	174	330	234	245	498	275	118	58	8	199
FGC.335.LL	70.8	170	2420	190	370	255	295	598	307	138	70	8	285
FGC.368.LL	85.4	205	2270	210	406	280	300	608	335	154	80	8	352
FGC.400.LL	150	360	1950	233	439	306	305	618	367	166	86	8	428
FGC.460.LL	200	480	1730	280	505	356	310	630	423	193	96	10	596

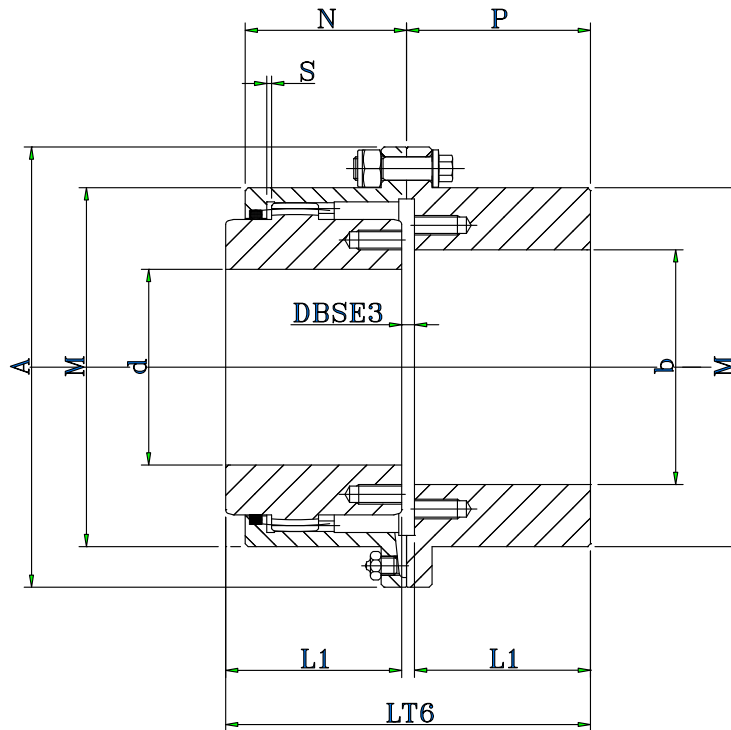
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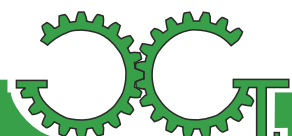
GEAR COUPLINGS WITH ONE RIGID HUB

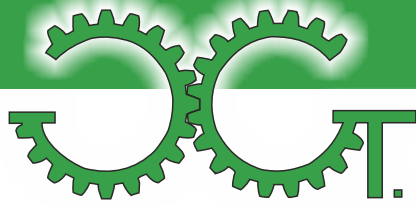
RGC SERIES



SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	MAX BORE b [mm]	A [mm]	L [mm]	LT6 [mm]	M [mm]	N [mm]	P [mm]	DBSE [mm]	Weight [kg]
RGC.96	1.9	4.2	6000	52	60	111	43	89	82.5	39	44.5	3	4.5
RGC.122	2.9	6.8	4550	62	75	142	50	103	104.6	45.5	51.5	3	8
RGC.148	5.7	14.0	4000	78	90	168	62	127	130.5	59	63.5	3	14
RGC.178	9.0	21.5	3900	98	110	200	76	157	158.4	68	78.5	5	26
RGC.203	14.5	35.0	3700	112	130	225	90	185	183.4	82.5	92.5	5	39
RGC.236	22.8	54.7	3550	132	150	265	105	216	211.5	93	108	6	63
RGC.270	34.8	83.5	3000	156	175	300	120	246	245.5	106	123	6	95
RGC.300	45.8	110	2750	174	195	330	135	278	275	118	139	8	131
RGC.335	70.8	170	2420	190	220	370	150	308	307	138	154	8	180
RGC.368	85.4	205	2270	210	240	406	175	358	335	154	179	8	248
RGC.400	150	360	1950	233	260	439	190	388	367	166	194	8	318
RGC.460	200	480	1730	280	300	505	220	450	423	193	225	10	488

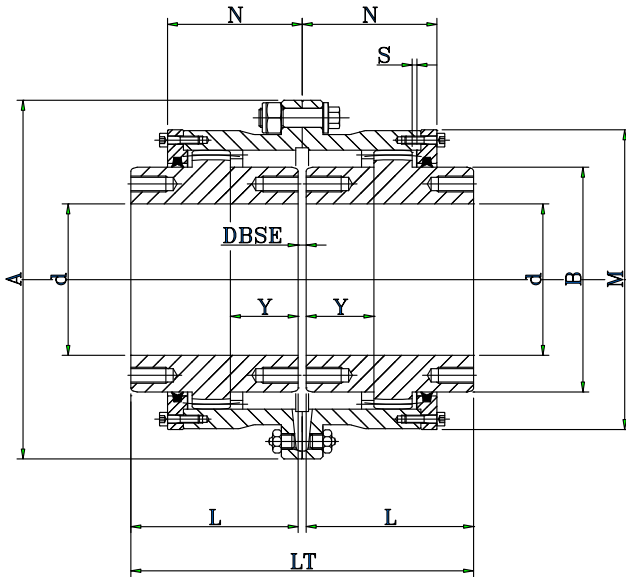
DBSE=2xS



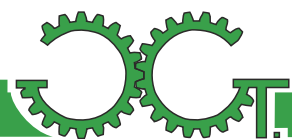


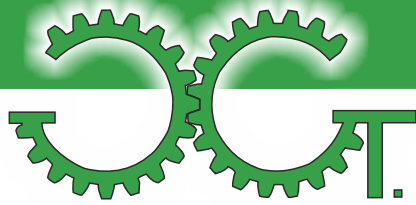
HEAVY DUTY GEAR COUPLINGS

FGC SERIES



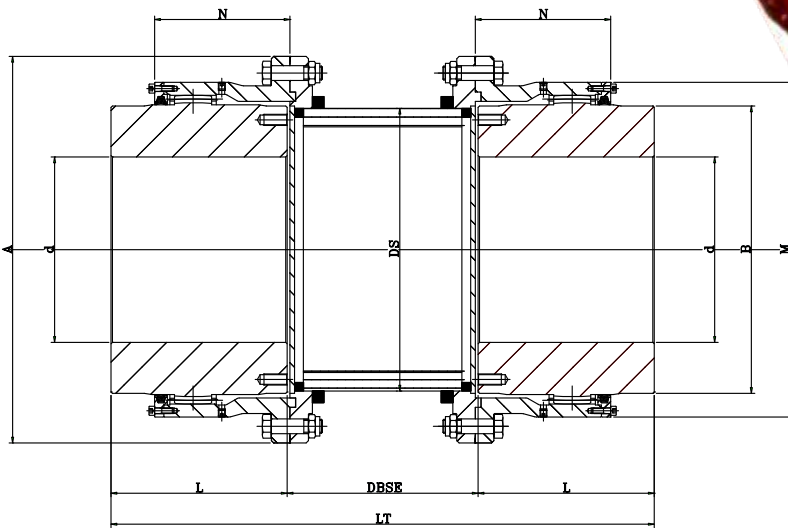
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT [mm]	M [mm]	N [mm]	DBSE [mm]	Weight [kg]
FGC.531	290	580	1100	325	590	410	260	532	503	221	12	722
FGC.581	402	804	990	370	639	460	290	592	553	245	12	972
FGC.636	518	1036	890	400	710	500	320	652	597	262	12	1292
FGC.696	693	1386	785	430	769	560	350	712	657	280	12	1695
FGC.762	882	1764	700	475	834	620	380	772	722	292	12	2215
FGC.812	1040	2080	645	510	894	660	400	820	763	315	20	2695
FGC.862	1255	2510	600	530	944	690	420	860	813	327	20	3150
FGC.937	1633	3266	540	580	1020	760	440	900	888	346	20	3950
FGC.997	1906	3812	500	610	1095	800	480	990	938	385	30	4915
FGC.1097	2636	5272	440	680	1195	880	530	1090	1038	414	30	6566
FGC.1242	3707	7414	380	780	1350	1010	580	1190	1173	460	30	9420
FGC.1342	4662	9324	330	860	1450	1110	630	1300	1273	507	40	12390
FGC.1477	6216	12432	300	950	1584	1230	690	1420	1408	568	40	15904
FGC.1587	7539	15078	280	1020	1715	1320	730	1500	1508	602	40	19631
FGC.1687	8925	17850	250	1090	1815	1410	790	1620	1608	635	40	23543
FGC.1817	11130	22260	230	1180	1944	1530	840	1730	1738	680	50	29572



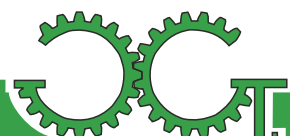


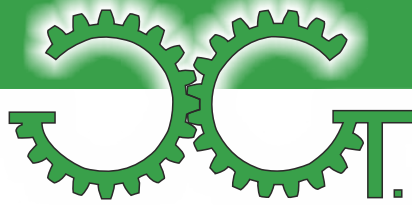
HEAVY DUTY GEAR COUPLINGS

FGC.T SERIES



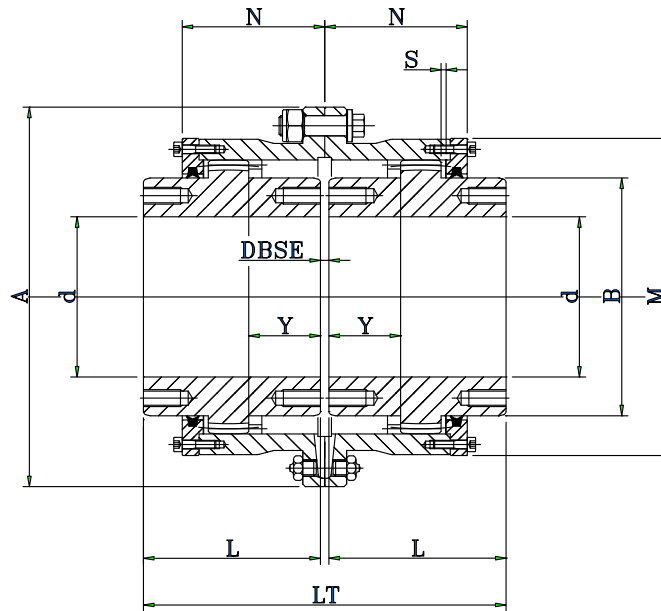
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT [mm]	M [mm]	N [mm]	DBSE MIN. [mm]	Weight [kg]
FGC.531	290	580	1100	325	590	410	260	532	503	221	210	850
FGC.581	402	804	990	370	639	460	290	592	553	245	220	1050
FGC.636	518	1036	890	400	710	500	320	652	597	262	230	1450
FGC.696	693	1386	785	430	769	560	350	712	657	280	240	1850
FGC.762	882	1764	700	475	834	620	380	772	722	292	250	2360
FGC.812	1040	2080	645	510	894	660	400	820	763	315	300	2840
FGC.862	1255	2510	600	530	944	690	420	860	813	327	330	3300
FGC.937	1633	3266	540	580	1020	760	440	900	888	346	360	4110
FGC.997	1906	3812	500	610	1095	800	480	990	938	385	400	5050
FGC.1097	2636	5272	440	680	1195	880	530	1090	1038	414	450	6600
FGC.1242	3707	7414	380	780	1350	1010	580	1190	1173	460	500	9900
FGC.1342	4662	9324	330	860	1450	1110	630	1300	1273	507	550	13390
FGC.1477	6216	12432	300	950	1584	1230	690	1420	1408	568	600	16800
FGC.1587	7539	15078	280	1020	1715	1320	730	1500	1508	602	650	20700
FGC.1687	8925	17850	250	1090	1815	1410	790	1620	1608	635	700	24800
FGC.1817	11130	22260	230	1180	1944	1530	840	1730	1738	680	750	30800



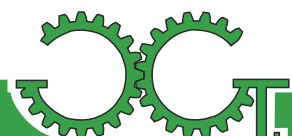


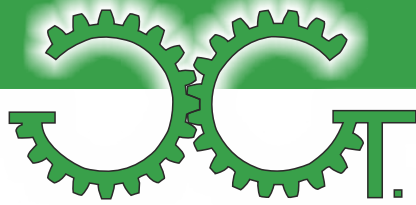
HEAVY DUTY GEAR COUPLINGS MADE IN 42CrMo4

FGC.HD SERIES



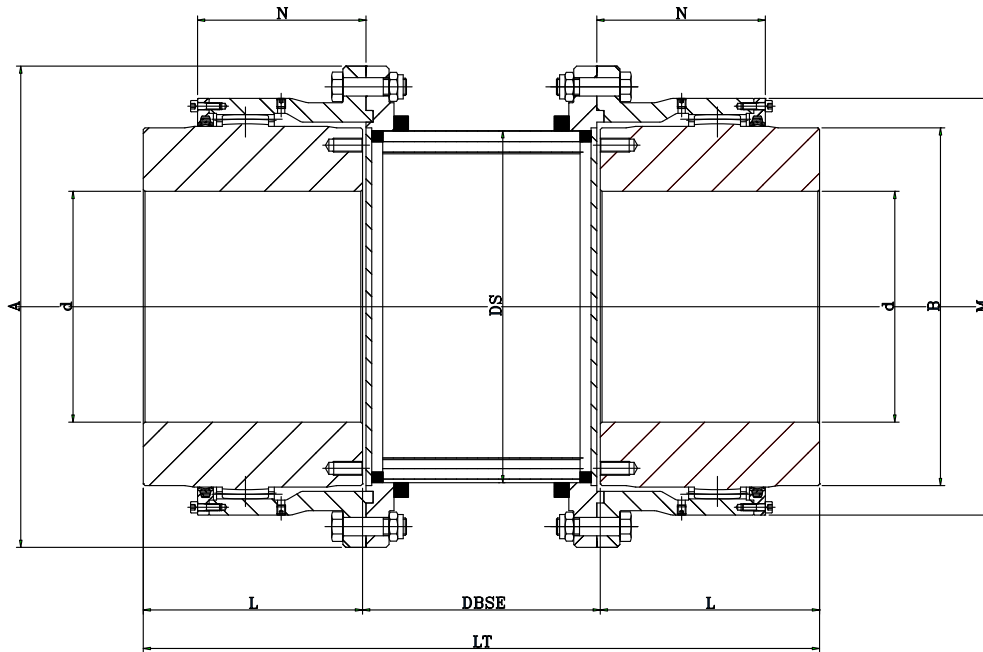
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT [mm]	M [mm]	N [mm]	DBSE [mm]	Weight [kg]
FGC.531.HD	421	842	2000	325	590	410	260	532	503	221	12	722
FGC.581.HD	570	1140	1750	370	639	460	290	592	553	245	12	972
FGC.636.HD	757	1514	1600	400	710	500	320	652	597	262	12	1292
FGC.696.HD	995	1990	1400	430	769	560	350	712	657	280	12	1695
FGC.762.HD	1251	2502	1250	475	834	620	380	772	722	292	12	2215
FGC.812.HD	1505	3010	1200	510	894	660	400	820	763	315	20	2695
FGC.862.HD	1820	3640	1100	530	944	690	420	860	813	327	20	3150
FGC.937.HD	2360	4720	1000	580	1020	760	440	900	888	346	20	3950
FGC.997.HD	2780	5560	950	610	1095	800	480	990	938	385	30	4915
FGC.1097.HD	3910	7820	850	680	1195	880	530	1090	1038	414	30	6566
FGC.1242.HD	5490	10980	700	780	1350	1010	580	1190	1173	460	30	9420
FGC.1342.HD	6890	13780	650	860	1450	1110	630	1300	1273	507	40	12390
FGC.1477.HD	9275	18550	600	950	1584	1230	690	1420	1408	568	40	15904
FGC.1587.HD	10865	21730	550	1020	1715	1320	730	1500	1508	602	40	19631
FGC.1687.HD	13540	26900	500	1090	1815	1410	790	1620	1608	635	40	23543
FGC.1817.HD	16900	33800	450	1180	1944	1530	840	1730	1738	680	50	29572



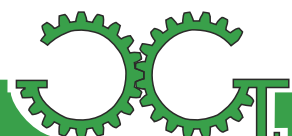


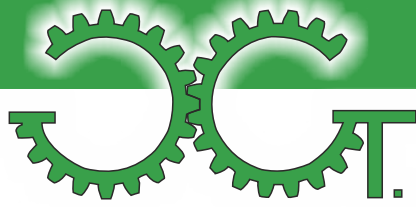
HEAVY DUTY GEAR COUPLINGS MADE IN 42CrMo4

FGC.HD.T SERIES



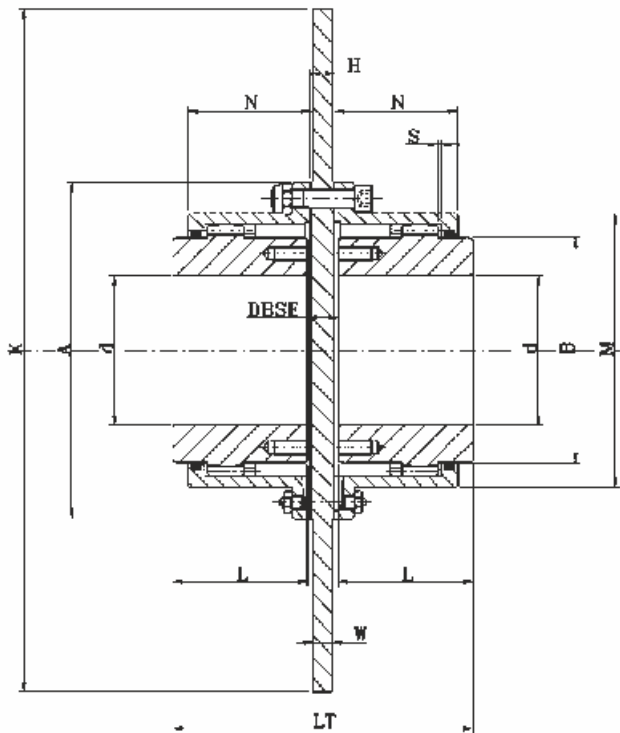
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT [mm]	M [mm]	N [mm]	DBSE [mm]	Weight [kg]
FGC.531	421	842	2000	325	590	410	260	532	503	221	210	900
FGC.581	570	1140	1750	370	639	460	290	592	553	245	220	1150
FGC.636	757	1514	1600	400	710	500	320	652	597	262	230	1650
FGC.696	995	1990	1400	430	769	560	350	712	657	280	240	2100
FGC.762	1251	2502	1250	475	834	620	380	772	722	292	250	2660
FGC.812	1505	3010	1200	510	894	660	400	820	763	315	300	3140
FGC.862	1820	3640	1100	530	944	690	420	860	813	327	330	3650
FGC.937	2360	4720	1000	580	1020	760	440	900	888	346	360	4510
FGC.997	2780	5560	950	610	1095	800	480	990	938	385	400	5500
FGC.1097	3910	7820	850	680	1195	880	530	1090	1038	414	450	7200
FGC.1242	5490	10980	700	780	1350	1010	580	1190	1173	460	500	10450
FGC.1342	6890	13780	650	860	1450	1110	630	1300	1273	507	550	13790
FGC.1477	9275	18550	600	950	1584	1230	690	1420	1408	568	600	17100
FGC.1587	10865	21730	550	1020	1715	1320	730	1500	1508	602	650	21000
FGC.1687	13540	26900	500	1090	1815	1410	790	1620	1608	635	700	25500
FGC.1817	16900	33800	450	1180	1944	1530	840	1730	1738	680	750	31200



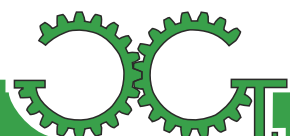


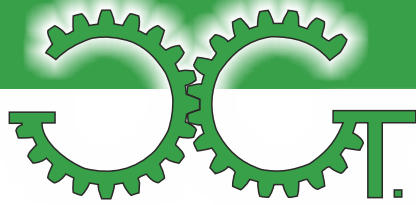
GEAR COUPLINGS WITH BRAKE DISC

FGC.BD SERIES



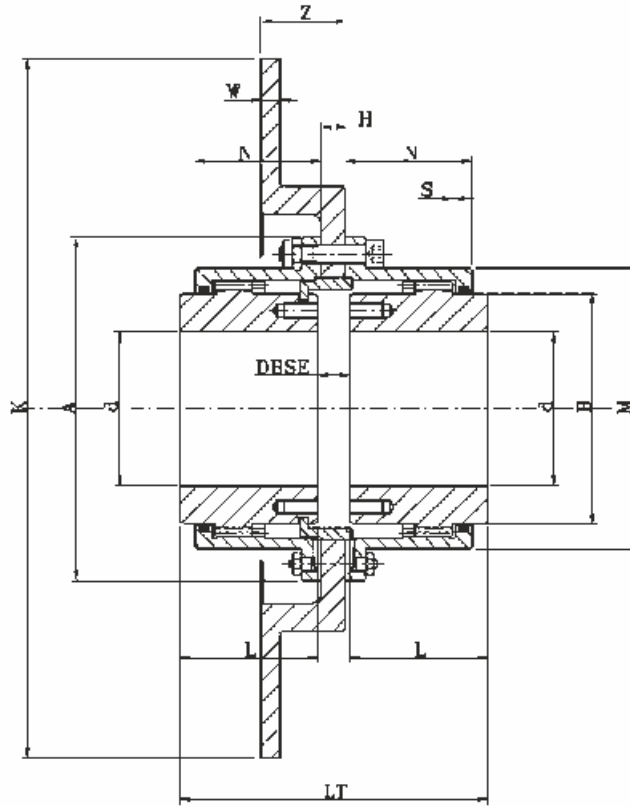
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT [mm]	M [mm]	N [mm]	DBSE [mm]	K x H [mm]	W [mm]
FGC.96.BD	1.9	4.2	6000	52	111	68	43	89	82.5	39	3 + H	250x6	12.7
FGC.122.BD	2.9	6.8	4550	62	142	86	50	103	104.6	45.5	3 + H	300x13	12.7
FGC.148.BD	5.7	14.0	4000	78	168	105	62	127	130.5	59	3 + H	350x16	12.7
FGC.178.BD	9.0	21.5	3900	98	200	132	76	157	158.4	68	5 + H	400x13	12.7
FGC.203.BD	14.5	35.0	3700	112	225	151	90	185	183.4	82.5	5 + H	460x16	12.7
FGC.236.BD	22.8	54.7	3550	132	265	179	105	216	211.5	93	6 + H	515x16	12.7
FGC.270.BD	34.8	83.5	3000	156	300	209	120	246	245.5	106	6 + H	515x16	12.7
FGC.300.BD	45.8	110	2750	174	330	234	135	278	275	118	8 + H	610x16	12.7
FGC.335.BD	70.8	170	2420	190	370	255	150	308	307	138	8 + H	710x19	12.7
FGC.368.BD	85.4	205	2270	210	406	280	175	358	335	154	8 + H	810x25	12.7
FGC.400.BD	150	360	1950	233	439	306	190	388	367	166	8 + H	810x25	12.7
FGC.460.BD	200	480	1730	280	505	356	220	450	423	193	10 + H	915x25	12.7



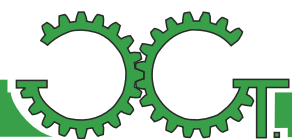


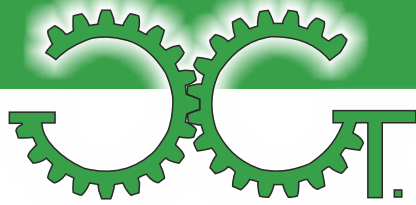
GEAR COUPLINGS WITH TWIFLEX BRAKE DISC

FGC.DT SERIES



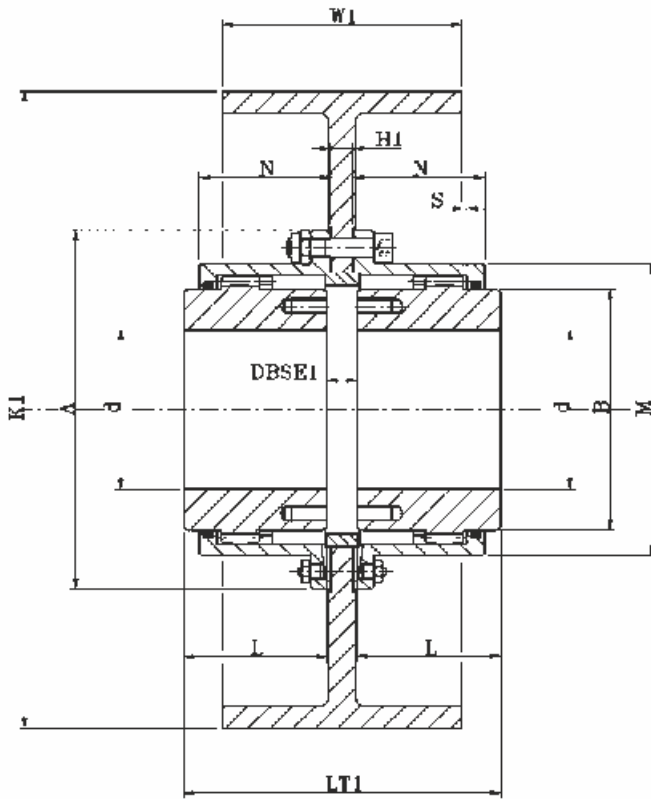
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT [mm]	M [mm]	N [mm]	DBSE [mm]	K x H [mm]	W x Z [mm]
FGC.96.DT	1.9	4.2	6000	52	111	68	43	95	82.5	39	3 + H	250x6	12.7 x 38
FGC.122.DT	2.9	6.8	4550	62	142	86	50	116	104.6	45.5	3 + H	300x13	12.7 x 41
FGC.148.DT	5.7	14.0	4000	78	168	105	62	143	130.5	59	3 + H	350x16	12.7 x 54
FGC.178.DT	9.0	21.5	3900	98	200	132	76	170	158.4	68	5 + H	400x13	12.7 x 54
FGC.203.DT	14.5	35.0	3700	112	225	151	90	201	183.4	82.5	5 + H	460x16	12.7 x 54
FGC.236.DT	22.8	54.7	3550	132	265	179	105	216	211.5	93	6 + H	515x16	12.7 x 54
FGC.270.DT	34.8	83.5	3000	156	300	209	120	262	245.5	106	6 + H	515x16	12.7 x 54
FGC.300.DT	45.8	110	2750	174	330	234	135	294	275	118	8 + H	610x16	12.7 x 54
FGC.335.DT	70.8	170	2420	190	370	255	150	327	307	138	8 + H	710x19	12.7 x 54
FGC.368.DT	85.4	205	2270	210	406	280	175	383	335	154	8 + H	810x25	12.7 x 54
FGC.400.DT	150	360	1950	233	439	306	190	403	367	166	8 + H	810x25	12.7 x 54
FGC.460.DT	200	480	1730	280	505	356	220	475	423	193	10 + H	915x25	12.7 x 54



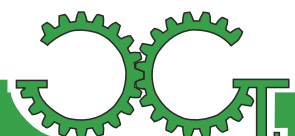


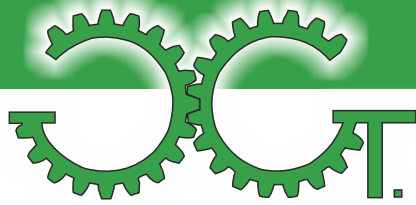
GEAR COUPLINGS WITH BRAKE PULLEY

FGC.BP SERIES



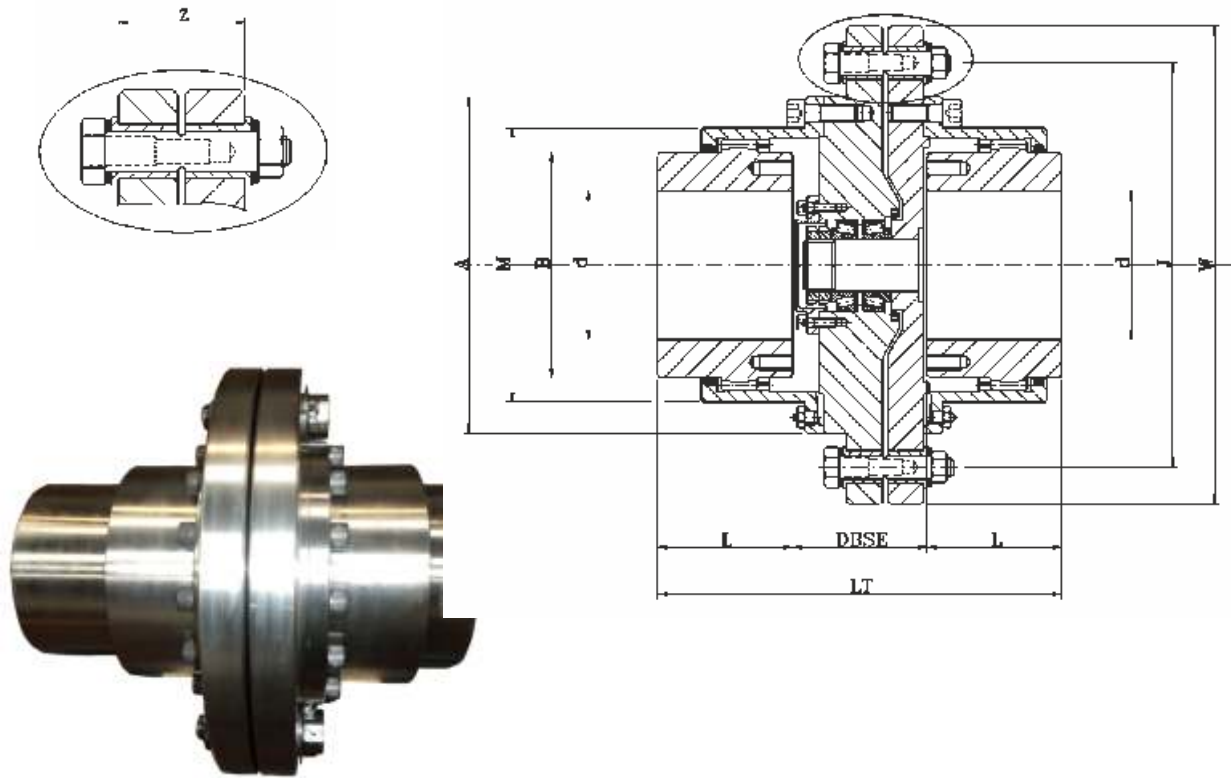
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT1 [mm]	M [mm]	N [mm]	DBSE1 [mm]	H1 [mm]	K1 x W1 [mm]
FGC.96.BP	1.9	4.2	6000	52	111	68	43	95	82.5	39	3 + H1	8	200 x 75
FGC.122.BP	2.9	6.8	4550	62	142	86	50	116	104.6	45.5	3 + H1	8	200 x 75
FGC.148.BP	5.7	14.0	4000	78	168	105	62	143	130.5	59	3 + H1	10	250 x 95
FGC.178.BP	9.0	21.5	3900	98	200	132	76	170	158.4	68	5 + H1	10	250 x 95
FGC.203.BP	14.5	35.0	3700	112	225	151	90	201	183.4	82.5	5 + H1	12	315 x 118
FGC.236.BP	22.8	54.7	3550	132	265	179	105	216	211.5	93	6 + H1	14	400 x 150
FGC.270.BP	34.8	83.5	3000	156	300	209	120	262	245.5	106	6 + H1	18	500 x 190
FGC.300.BP	45.8	110	2750	174	330	234	135	294	275	118	8 + H1	18	500 x 190
FGC.335.BP	70.8	170	2420	190	370	255	150	327	307	138	8 + H1	22	630 x 236
FGC.368.BP	85.4	205	2270	210	406	280	175	383	335	154	8 + H1	22	630 x 236
FGC.400.BP	150	360	1950	233	439	306	190	403	367	166	8 + H1	22	630 x 236
FGC.460.BP	200	480	1730	280	505	356	220	475	423	193	10 + H1	22	710 x 265





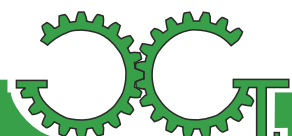
GEAR COUPLINGS WITH SHEAR PIN SAFETY DEVICE

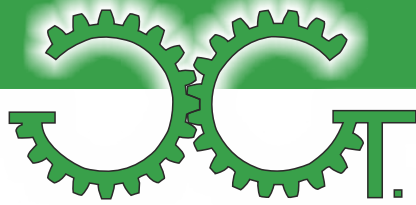
FGC.SD SERIES



SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	N [mm]
FGC.96.SD	1.9	4.2	6000	52	111	68	43	39
FGC.122.SD	2.9	6.8	4550	62	142	86	50	45.5
FGC.148.SD	5.7	14.0	4000	78	168	105	62	59
FGC.178.SD	9.0	21.5	3900	98	200	132	76	68
FGC.203.SD	14.5	35.0	3700	112	225	151	90	82.5
FGC.236.SD	22.8	54.7	3550	132	265	179	105	93
FGC.270.SD	34.8	83.5	3000	156	300	209	120	106
FGC.300.SD	45.8	110	2750	174	330	234	135	118
FGC.335.SD	70.8	170	2420	190	370	255	150	138
FGC.368.SD	85.4	205	2270	210	406	280	175	154
FGC.400.SD	150	360	1950	233	439	306	190	166
FGC.460.SD	200	480	1730	280	505	356	220	193

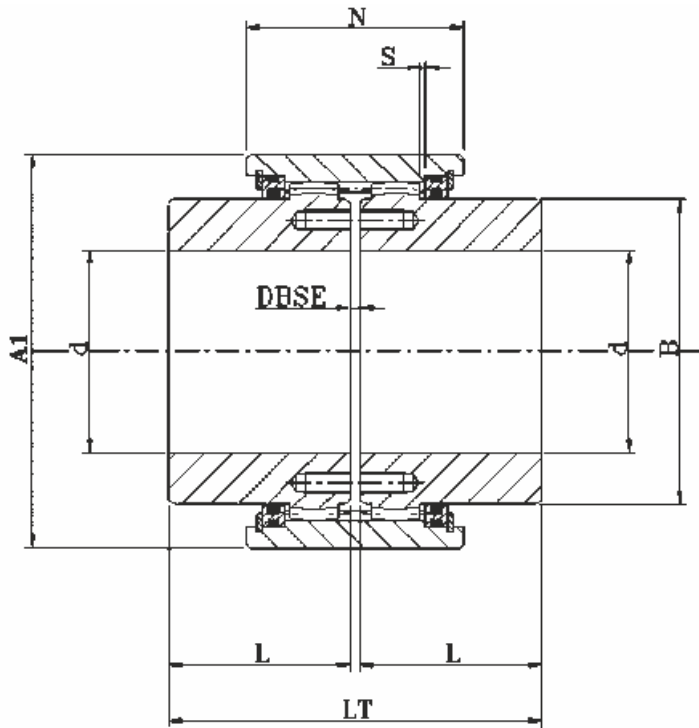
Dimensions: W, J, Z, DBSE tailor-made



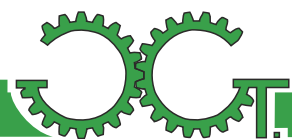


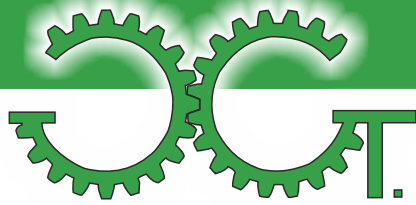
CONTINUOUS SLEEVE GEAR COUPLINGS

FGC.CS SERIES



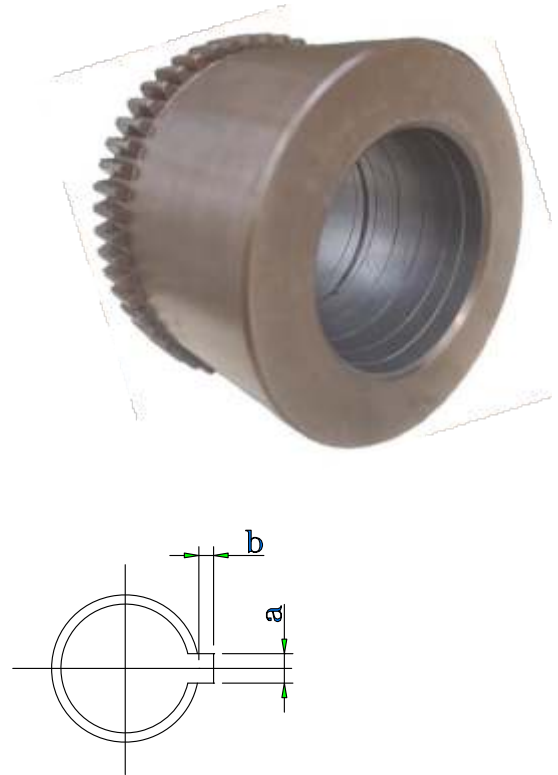
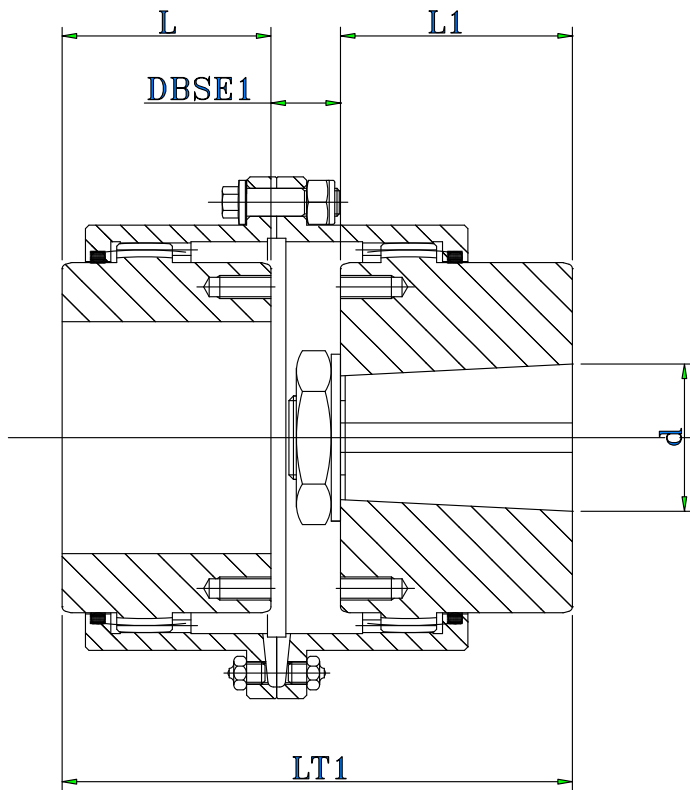
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A1 [mm]	B [mm]	L [mm]	LT [mm]	N [mm]	DBSE [mm]
FGC.96.CS	1.9	4.2	6000	52	88	68	43	89	63	3
FGC.122.CS	2.9	6.8	4550	62	108	86	50	103	74	3
FGC.148.CS	5.7	14.0	4000	78	133	105	62	127	89	3
FGC.178.CS	9.0	21.5	3900	98	163	132	76	157	102	5
FGC.203.CS	14.5	35.0	3700	112	188	151	90	185	108	5
FGC.236.CS	22.8	54.7	3550	132	213	179	105	216	118	6
FGC.270.CS	34.8	83.5	3000	156	248	209	120	246	130	6
FGC.300.CS	45.8	110	2750	174	278	234	135	278	138	8
FGC.335.CS	70.8	170	2420	190	313	255	150	308	156	8
FGC.368.CS	85.4	205	2270	210	338	280	175	358	152	8
FGC.400.CS	150	360	1950	233	368	306	190	388	160	8
FGC.460.CS	200	480	1730	280	423	356	220	450	180	10



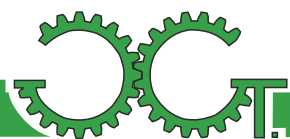


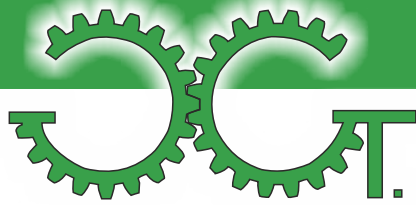
GEAR COUPLINGS FOR MILL MOTORS

FGC.MM SERIES



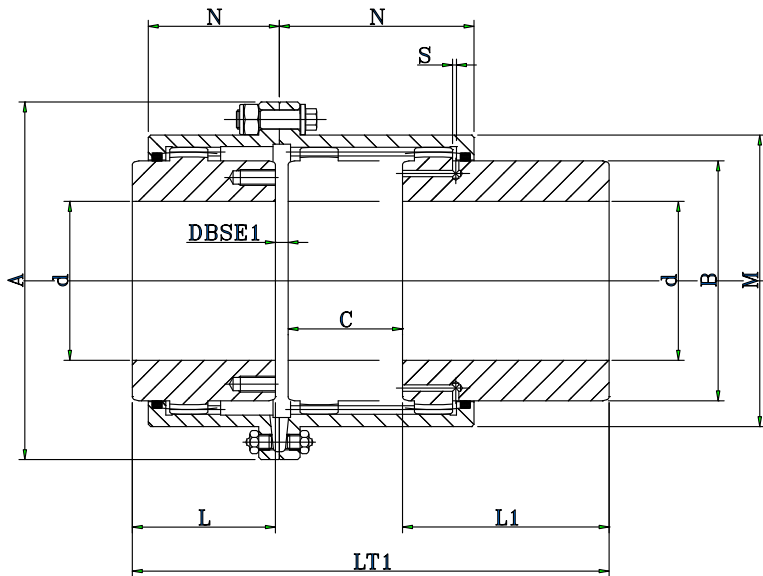
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L1 [mm]	LT1 [mm]	M [mm]	N [mm]	DBSE1 [mm]
FGC.96.MM	1.9	4.2	6000	52	111	68	105	151	82.5	39	28
FGC.122.MM	2.9	6.8	4550	62	142	86	115	168	104.6	45.5	30
FGC.148.MM	5.7	14.0	4000	78	168	105	130	195	130.5	59	30
FGC.178.MM	9.0	21.5	3900	98	200	132	150	231	158.4	68	35
FGC.203.MM	14.5	35.0	3700	112	225	151	170	265	183.4	82.5	41
FGC.236.MM	22.8	54.7	3550	132	265	179	185	296	211.5	93	46
FGC.270.MM	34.8	83.5	3000	156	300	209	215	296	245.5	106	52
FGC.300.MM	45.8	110	2750	174	330	234	245	341	275	118	54
FGC.335.MM	70.8	170	2420	190	370	255	295	388	307	138	70
FGC.368.MM	85.4	205	2270	210	406	280	300	453	335	154	70
FGC.400.MM	150	360	1950	233	439	306	305	483	367	166	70



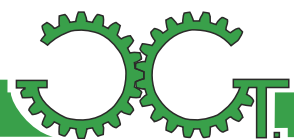


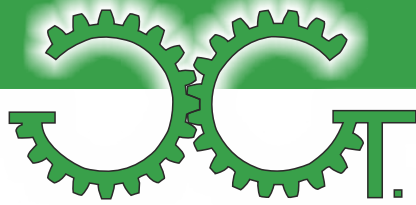
SLIDING GEAR COUPLINGS

FGC.SG SERIES



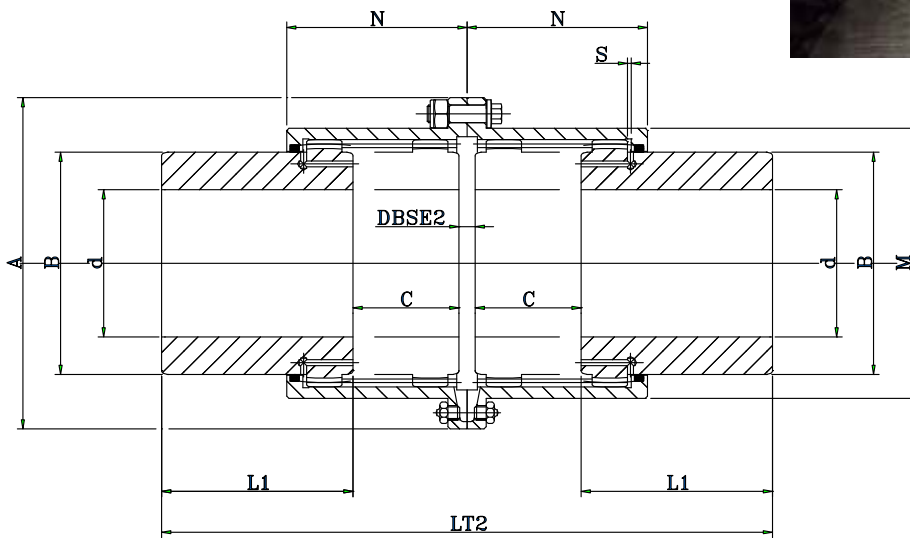
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	L1 [mm]	N [mm]	LT1 [mm]	N1 [mm]	DBSE1 [mm]	C [mm]
FGC.96.SG	1.9	4.2	6000	52	111	68	43	100	39	212	92	7	62
FGC.122.SG	2.9	6.8	4550	62	142	86	50	102	45.5	221	98	7	62
FGC.148.SG	5.7	14.0	4000	78	168	105	62	110	59	243	106	7	64
FGC.178.SG	9.0	21.5	3900	98	200	132	76	122	68	278	119	8	72
FGC.203.SG	14.5	35.0	3700	112	225	151	90	130	82.5	300	122	8	72
FGC.236.SG	22.8	54.7	3550	132	265	179	105	144	93	339	137	10	80
FGC.270.SG	34.8	83.5	3000	156	300	209	120	156	106	374	151	10	88
FGC.300.SG	45.8	110	2750	174	330	234	135	162	118	399	158	14	88
FGC.335.SG	70.8	170	2420	190	370	255	150	180	138	446	181	14	102
FGC.368.SG	85.4	205	2270	210	406	280	175	220	154	539	213	14	130
FGC.400.SG	150	360	1950	233	439	306	190	220	166	554	217	14	130
FGC.460.SG	200	480	1730	280	505	356	220	210	193	556	209	16	110



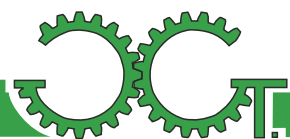


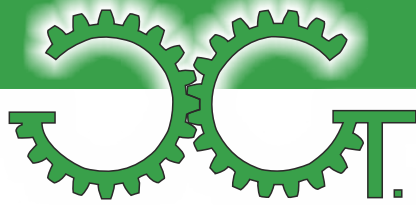
DOUBLE SLIDING GEAR COUPLINGS

FGC.SGG SERIES



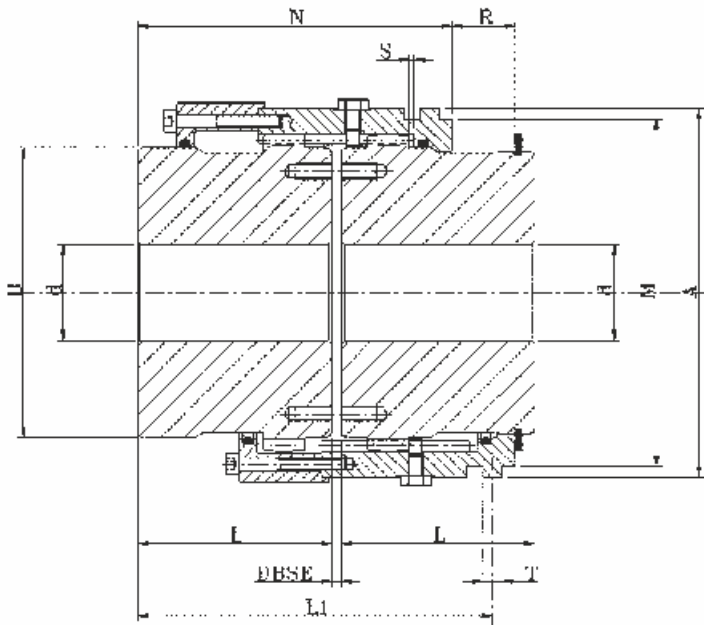
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L1 [mm]	N1 [mm]	DBSE2 [mm]	2 x C [mm]
FGC.96.SGG	1.9	4.2	6000	52	111	68	100	92	11	124
FGC.122.SGG	2.9	6.8	4550	62	142	86	102	98	11	124
FGC.148.SGG	5.7	14.0	4000	78	168	105	110	106	11	128
FGC.178.SGG	9.0	21.5	3900	98	200	132	122	119	11	144
FGC.203.SGG	14.5	35.0	3700	112	225	151	130	122	11	144
FGC.236.SGG	22.8	54.7	3550	132	265	179	144	137	14	160
FGC.270.SGG	34.8	83.5	3000	156	300	209	156	151	14	176
FGC.300.SGG	45.8	110	2750	174	330	234	162	158	20	176
FGC.335.SGG	70.8	170	2420	190	370	255	180	181	20	204
FGC.368.SGG	85.4	205	2270	210	406	280	220	213	20	260
FGC.400.SGG	150	360	1950	233	439	306	220	217	20	260
FGC.460.SGG	200	480	1730	280	505	356	210	209	22	220



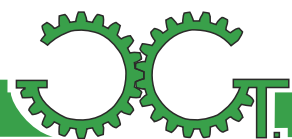


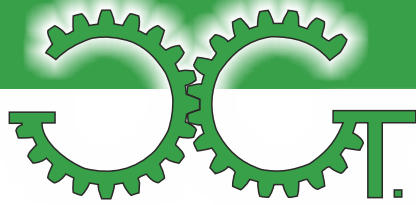
DISENGAGEABLE GEAR COUPLINGS

FGC.DI SERIES



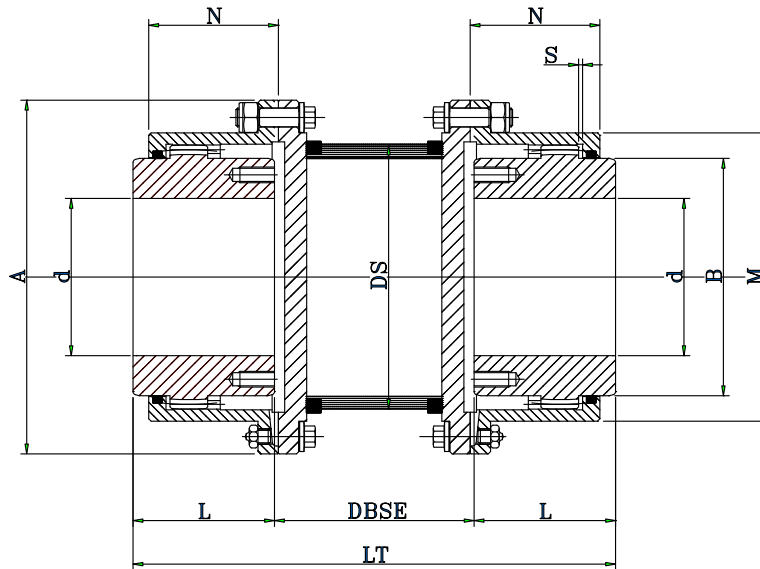
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	N [mm]	L1 [mm]	DBSE [mm]	T [mm]	M [mm]	R [mm]
FGC.96.DI	1.9	4.55	3000	52	98	68	60	98	112	3	6	90	17
FGC.122.DI	2.9	7	2500	62	118	86	70	111	124	3	6	110	22
FGC.148.DI	5.85	14	2000	78	150	105	85	135.5	152.5	3	8	138	29
FGC.178.DI	9.15	22	1800	98	173	132	95	155.5	176	5	8	161	32
FGC.203.DI	14.8	35.5	1500	112	198	151	105	170.5	192.5	5	8	186	34
FGC.236.DI	23.9	57.4	1350	132	228	179	120	195	220	6	12	215	39
FGC.270.DI	36.5	87.7	1200	156	258	209	130	206	235	6	12	248	45
FGC.300.DI	46.3	111.1	1100	174	288	234	150	238	272	8	12	273	50
FGC.335.DI	73.5	176.3	950	190	318	255	175	279	319	8	12	300	56
FGC.368.DI	88.2	211.7	900	210	348	280	190	303	348	8	12	329	62
FGC.400.DI	160	384	800	233	393	306	220	356	407	8	12	374	70
FGC.460.DI	213.5	513	700	280	448	356	250	404	461	10	16	356	77



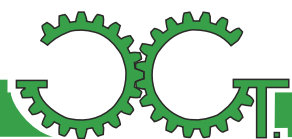


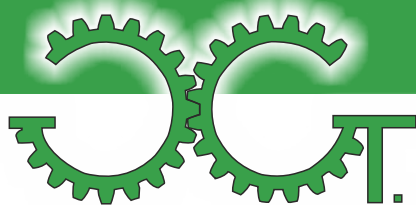
GEAR COUPLINGS WITH TUBULAR SPACER

FGC.T SERIES



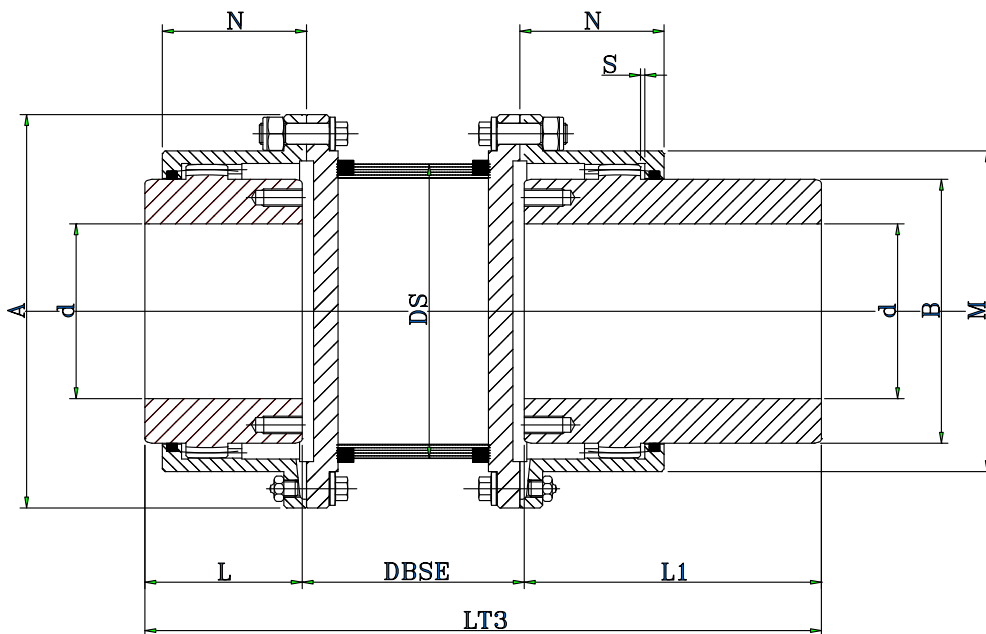
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	L1 [mm]	M [mm]	N [mm]	DS [mm]
FGC.96.T	1.9	4.2	6000	52	111	68	43	105	82.5	39	82.5
FGC.122.T	2.9	6.8	4550	62	142	86	50	115	104.6	45.5	88.9
FGC.148.T	5.7	14.0	4000	78	168	105	62	130	130.5	59	127
FGC.178.T	9.0	21.5	3900	98	200	132	76	150	158.4	68	139
FGC.203.T	14.5	35.0	3700	112	225	151	90	170	183.4	82.5	168
FGC.236.T	22.8	54.7	3550	132	265	179	105	185	211.5	93	168
FGC.270.T	34.8	83.5	3000	156	300	209	120	215	245.5	106	219
FGC.300.T	45.8	110	2750	174	330	234	135	245	275	118	273
FGC.335.T	70.8	170	2420	190	370	255	150	295	307	138	273
FGC.368.T	85.4	205	2270	210	406	280	175	300	335	154	324
FGC.400.T	150	360	1950	233	439	306	190	305	367	166	355
FGC.460.T	200	480	1730	280	505	356	220	310	423	193	406





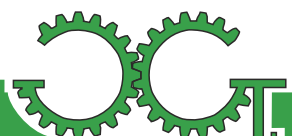
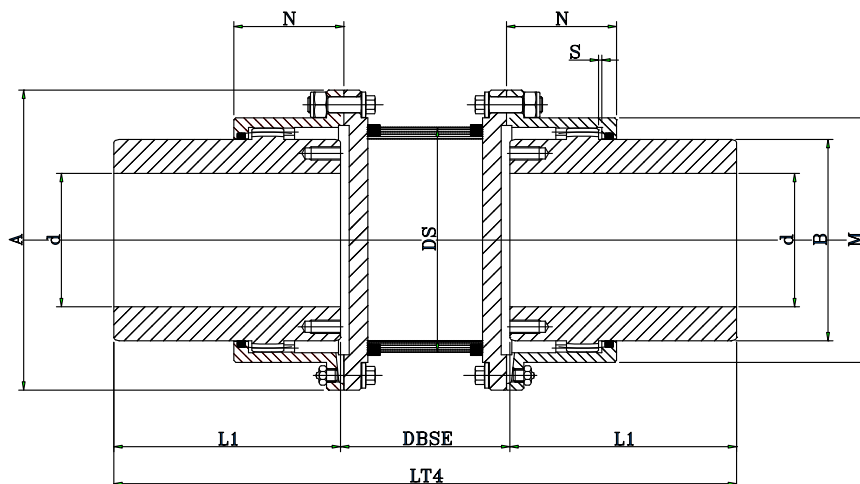
GEAR COUPLINGS WITH TUBULAR SPACER & 1 LONG HUB

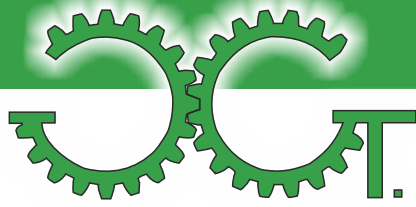
FGC.TL SERIES



GEAR COUPLINGS WITH TUBULAR SPACER & 2 LONG HUBS

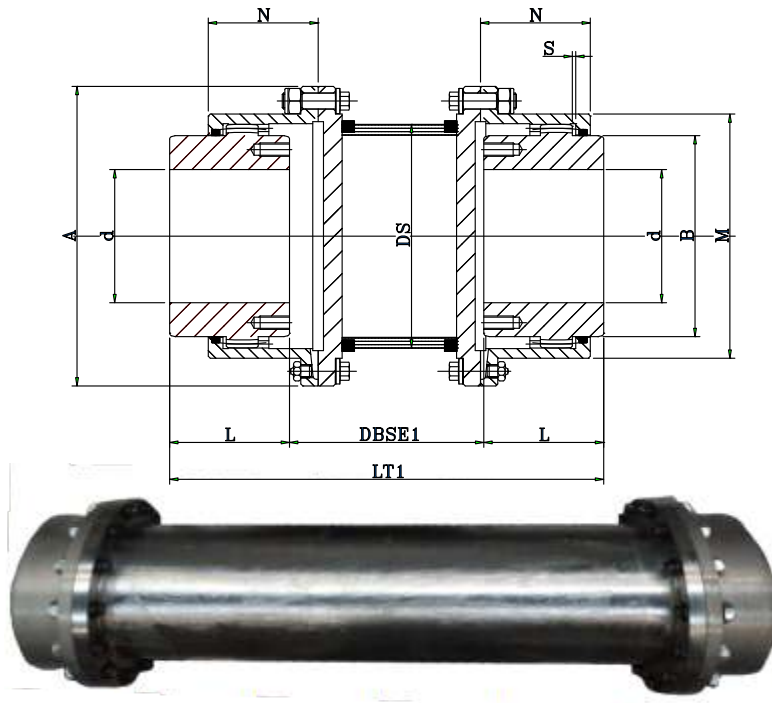
FGC.TLL SERIES





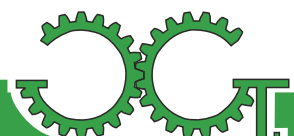
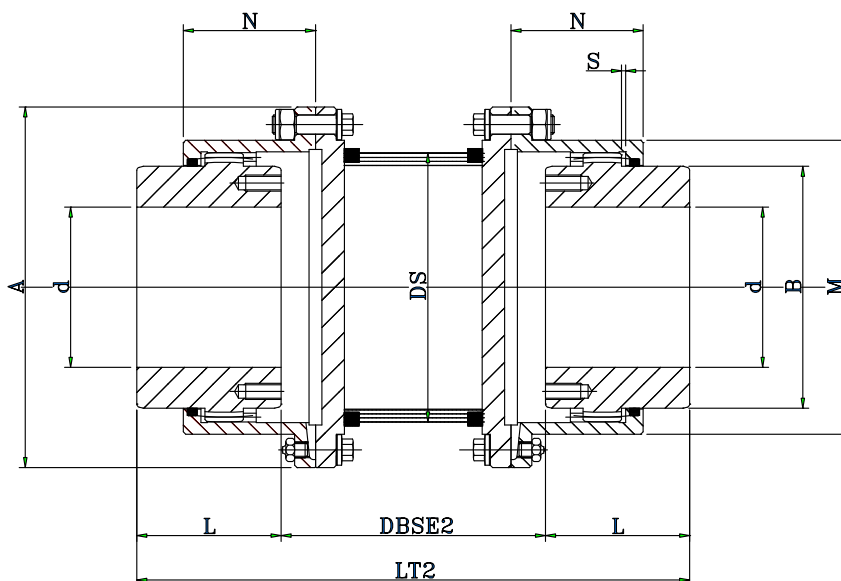
GEAR COUPLINGS WITH TUBULAR SPACER & 1 REVERSE HUB

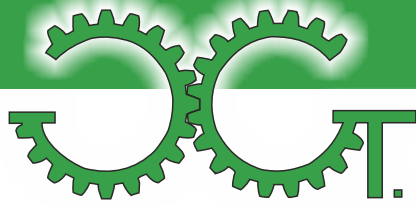
FGC.TR SERIES



GEAR COUPLINGS WITH TUBULAR SPACER & BOTH REVERSE HUBS

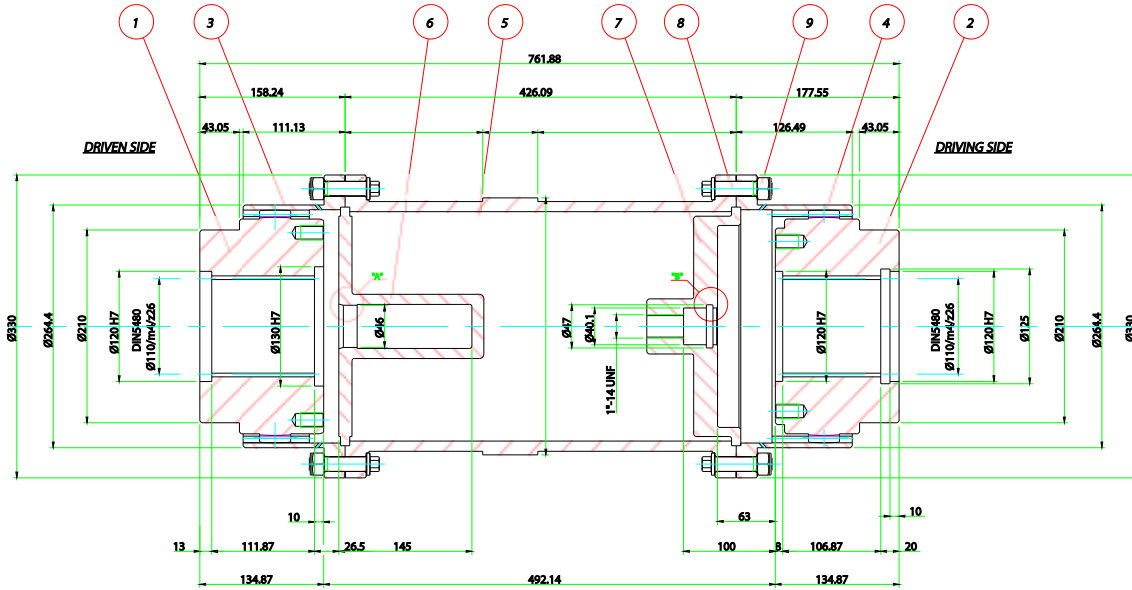
FGC.TRR SERIES



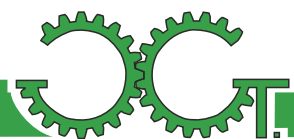


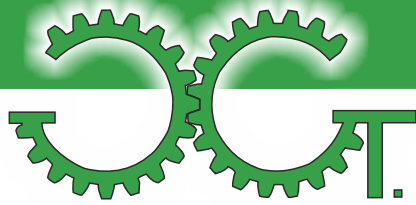
FGC GEAR COUPLINGS WITH CONTINUOUS OIL LUBRICATION

FGC.OIL SERIES



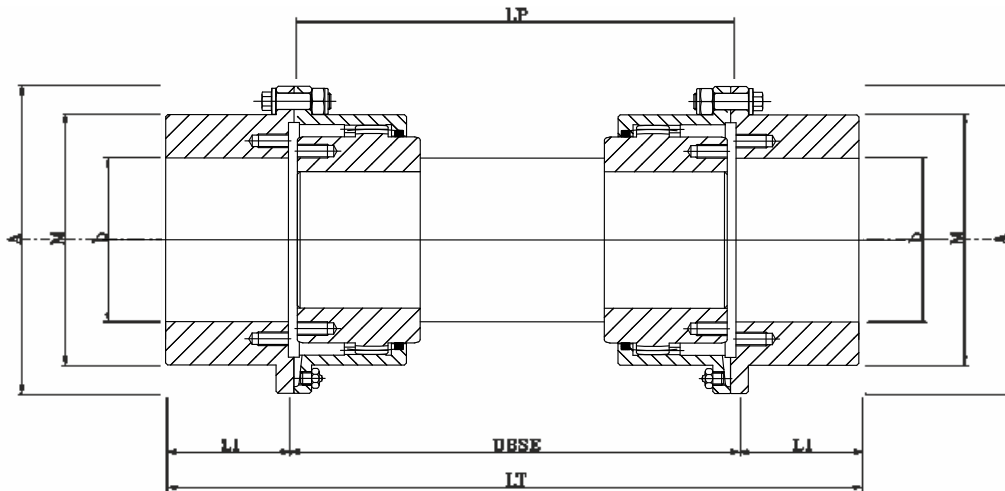
9	027474016F	SELF LOCKING HEX NUT M16	CL5 FINE TR.	28
8	S593216065C	HEX SCREW M16x65	CL.12.9	28
7	PL0300.TH.002	THRUST PLATE TYPE PL300	Fe430	1
6	PL0300.CE.001	CENTERING PLATE TYPE PL300	Fe430	1
5	SP0300.X.001	SPACER TYPE SP300 X	Fe430	1
4	SL0300.X.004	SLEEVE TYPE SL300 X	C45 NORM.	1
3	SL0300.X.003	SLEEVE TYPE SL300 X	C45 NORM.	1
2	HB0300.0.015	HUB TYPE HB300	C45 BON.	1
1	HB0300.0.014	HUB TYPE HB300	C45 BON.	1
ITEM	CODE	DESCRIPTION	MATERIAL	QUANTITY



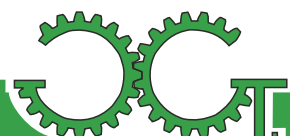


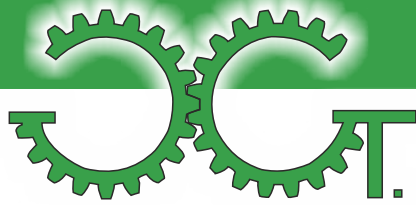
GEAR COUPLINGS WITH INTERMEDIATE FLOATING SHAFT

FGC.S SERIES



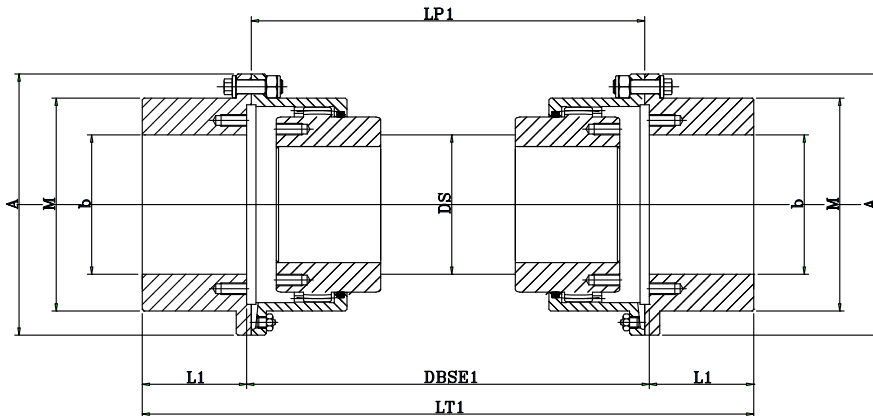
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L1 [mm]	M [mm]	N [mm]	DH [mm]
FGC.96.S	1.9	4.2	6000	52	111	68	43	82.5	39	55
FGC.122.S	2.9	6.8	4550	62	142	86	50	104.6	45.5	65
FGC.148.S	5.7	14.0	4000	78	168	105	62	130.5	59	80
FGC.178.S	9.0	21.5	3900	98	200	132	76	158.4	68	100
FGC.203.S	14.5	35.0	3700	112	225	151	90	183.4	82.5	115
FGC.236.S	22.8	54.7	3550	132	265	179	105	211.5	93	135
FGC.270.S	34.8	83.5	3000	156	300	209	120	245.5	106	160
FGC.300.S	45.8	110	2750	174	330	234	135	275	118	180
FGC.335.S	70.8	170	2420	190	370	255	150	307	138	195
FGC.368.S	85.4	205	2270	210	406	280	175	335	154	215
FGC.400.S	150	360	1950	233	439	306	190	367	166	235
FGC.460.S	200	480	1730	280	505	356	220	423	193	285



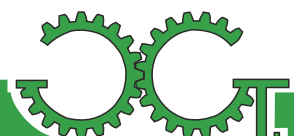


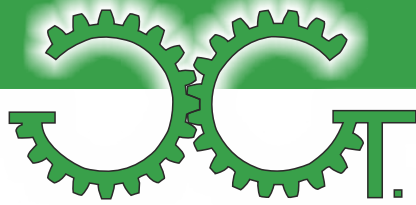
GEAR COUPLINGS WITH INTERMEDIATE FLOATING SHAFT AND REVERSE HUBS

FGC.SR SERIES



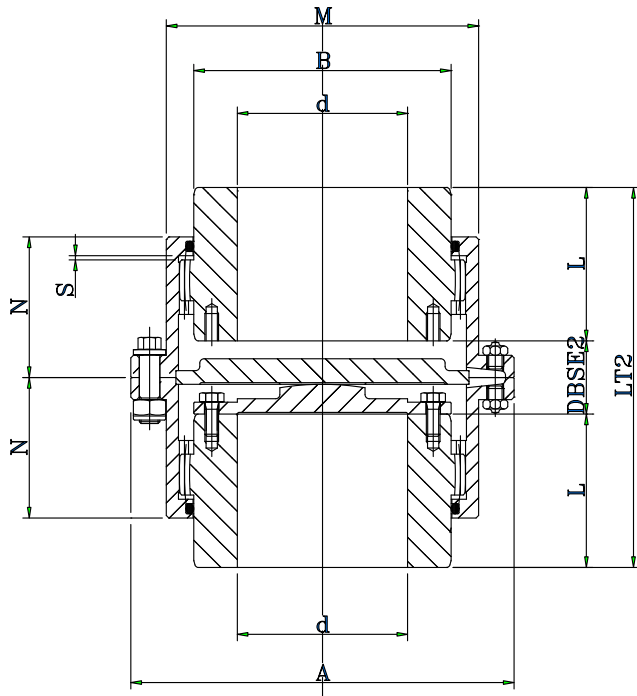
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L1 [mm]	M [mm]	DH [mm]
FGC.96.SR	1.9	4.2	6000	52	111	68	43	82.5	55
FGC.122.SR	2.9	6.8	4550	62	142	86	50	104.6	65
FGC.148.SR	5.7	14.0	4000	78	168	105	62	130.5	80
FGC.178.SR	9.0	21.5	3900	98	200	132	76	158.4	100
FGC.203.SR	14.5	35.0	3700	112	225	151	90	183.4	115
FGC.236.SR	22.8	54.7	3550	132	265	179	105	211.5	135
FGC.270.SR	34.8	83.5	3000	156	300	209	120	245.5	160
FGC.300.SR	45.8	110	2750	174	330	234	135	275	180
FGC.335.SR	70.8	170	2420	190	370	255	150	307	195
FGC.368.SR	85.4	205	2270	210	406	280	175	335	215
FGC.400.SR	150	360	1950	233	439	306	190	367	235
FGC.460.SR	200	480	1730	280	505	356	220	423	285



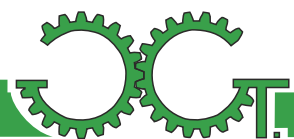


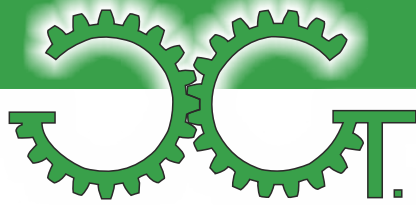
GEAR COUPLINGS FOR VERTICAL APPLICATION

FGC.V SERIES



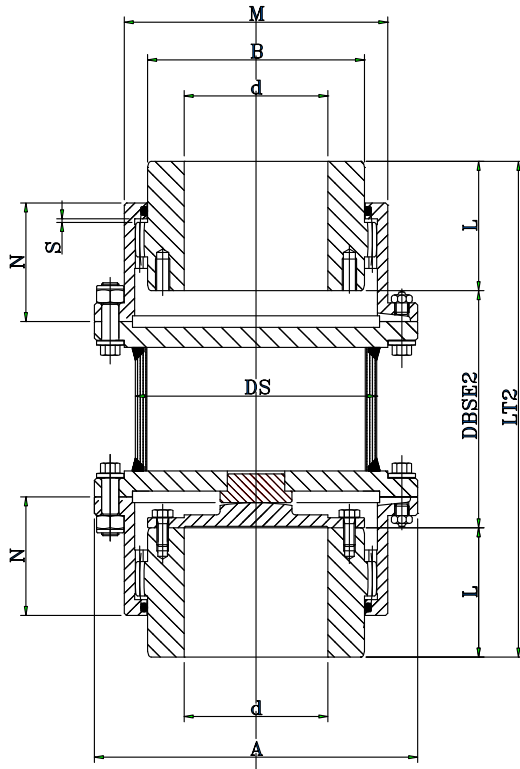
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT2 [mm]	M [mm]	N [mm]	DBSE2 [mm]
FGC.96.V	1.9	4.2	6000	52	111	68	43	109	82.5	39	23
FGC.122.V	2.9	6.8	4550	62	142	86	50	123	104.6	45.5	23
FGC.148.V	5.7	14.0	4000	78	168	105	62	155	130.5	59	31
FGC.178.V	9.0	21.5	3900	98	200	132	76	183	158.4	68	31
FGC.203.V	14.5	35.0	3700	112	225	151	90	223	183.4	82.5	43
FGC.236.V	22.8	54.7	3550	132	265	179	105	258	211.5	93	48
FGC.270.V	34.8	83.5	3000	156	300	209	120	298	245.5	106	58
FGC.300.V	45.8	110	2750	174	330	234	135	336	275	118	66
FGC.335.V	70.8	170	2420	190	370	255	150	392	307	138	92
FGC.368.V	85.4	205	2270	210	406	280	175	448	335	154	98
FGC.400.V	150	360	1950	233	439	306	190	488	367	166	108
FGC.460.V	200	480	1730	280	505	356	220	450	423	193	134



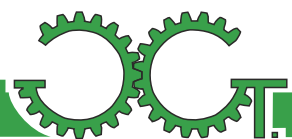


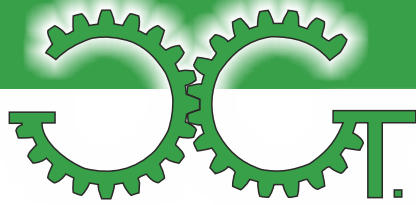
GEAR COUPLINGS WITH TUBULAR SPACER FOR VERTICAL APPLICATION

FGC.TV SERIES



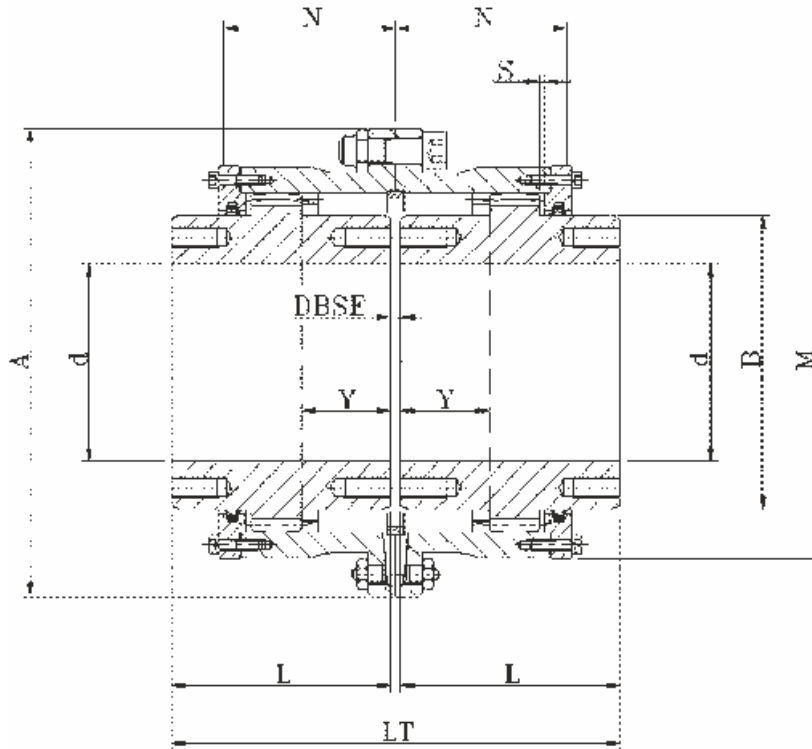
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	M [mm]	N [mm]
FGC.96.TV	1.9	4.2	6000	52	111	68	43	82.5	39
FGC.122.TV	2.9	6.8	4550	62	142	86	50	104.6	45.5
FGC.148.TV	5.7	14.0	4000	78	168	105	62	130.5	59
FGC.178.TV	9.0	21.5	3900	98	200	132	76	158.4	68
FGC.203.TV	14.5	35.0	3700	112	225	151	90	183.4	82.5
FGC.236.TV	22.8	54.7	3550	132	265	179	105	211.5	93
FGC.270.TV	34.8	83.5	3000	156	300	209	120	245.5	106
FGC.300.TV	45.8	110	2750	174	330	234	135	275	118
FGC.335.TV	70.8	170	2420	190	370	255	150	307	138
FGC.368.TV	85.4	205	2270	210	406	280	175	335	154
FGC.400.TV	150	360	1950	233	439	306	190	367	166
FGC.460.TV	200	480	1730	280	505	356	220	423	193



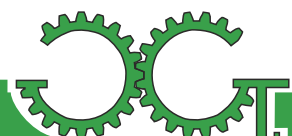


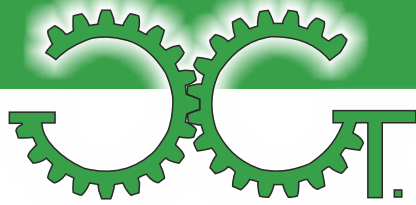
STAINLESS STEEL GEAR COUPLINGS

FGC.SS SERIES



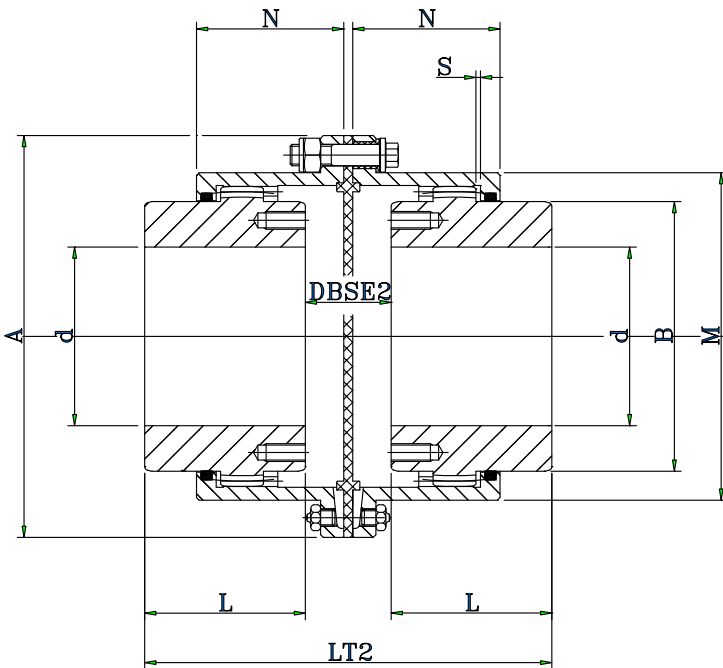
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT [mm]	M [mm]	N [mm]	DBSE [mm]
FGC.96.SS	3.6	7.2	6000	52	111	68	43	89	82.5	39	3
FGC.122.SS	5.6	11.2	4550	62	142	86	50	103	104.6	45.5	3
FGC.148.SS	11	22	4000	78	168	105	62	127	130.5	59	3
FGC.178.SS	18	36	3900	98	200	132	76	157	158.4	68	5
FGC.203.SS	27	54	3700	112	225	151	90	185	183.4	82.5	5
FGC.236.SS	43	86	3550	132	265	179	105	216	211.5	93	6
FGC.270.SS	74	148	3000	156	300	209	120	246	245.5	106	6
FGC.300.SS	109	218	2750	174	330	234	135	278	275	118	8
FGC.335.SS	133	266	2420	190	370	255	150	308	307	138	8
FGC.368.SS	215	430	2270	210	406	280	175	358	335	154	8
FGC.400.SS	265	530	1950	233	439	306	190	388	367	166	8
FGC.460.SS	330	660	1730	280	505	356	220	450	423	193	10



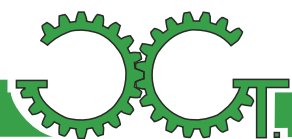


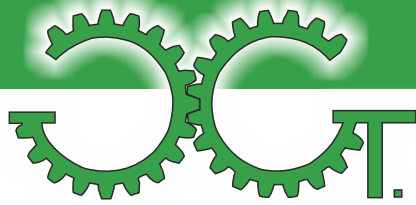
GEAR COUPLINGS WITH ELECTRICAL INSULATION

FGC.EI SERIES



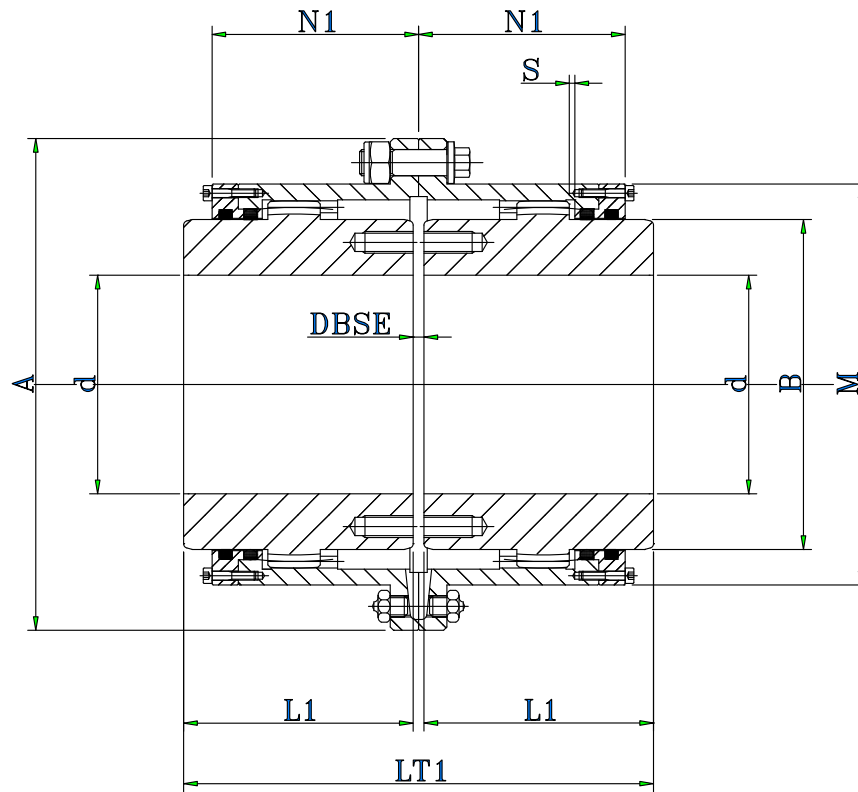
SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L [mm]	LT [mm]	M [mm]	N [mm]	DBSE2 [mm]
FGC.178.EI	9.0	21.5	3900	98	200	132	76	190	158.4	68	42
FGC.203.EI	14.5	35.0	3700	112	225	151	90	223	183.4	82.5	47
FGC.236.EI	22.8	54.7	3550	132	265	179	105	258	211.5	93	52
FGC.270.EI	34.8	83.5	3000	156	300	209	120	298	245.5	106	63
FGC.300.EI	45.8	110	2750	174	330	234	135	336	275	118	71
FGC.335.EI	70.8	170	2420	190	370	255	150	392	307	138	97
FGC.368.EI	85.4	205	2270	210	406	280	175	448	335	154	103
FGC.400.EI	150	360	1950	233	439	306	190	488	367	166	113
FGC.460.EI	200	480	1730	280	505	356	220	574	423	193	139



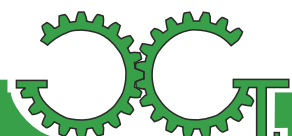


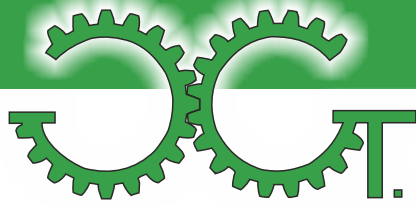
GEAR COUPLINGS WITH FELT SEALS

FGC.FE SERIES

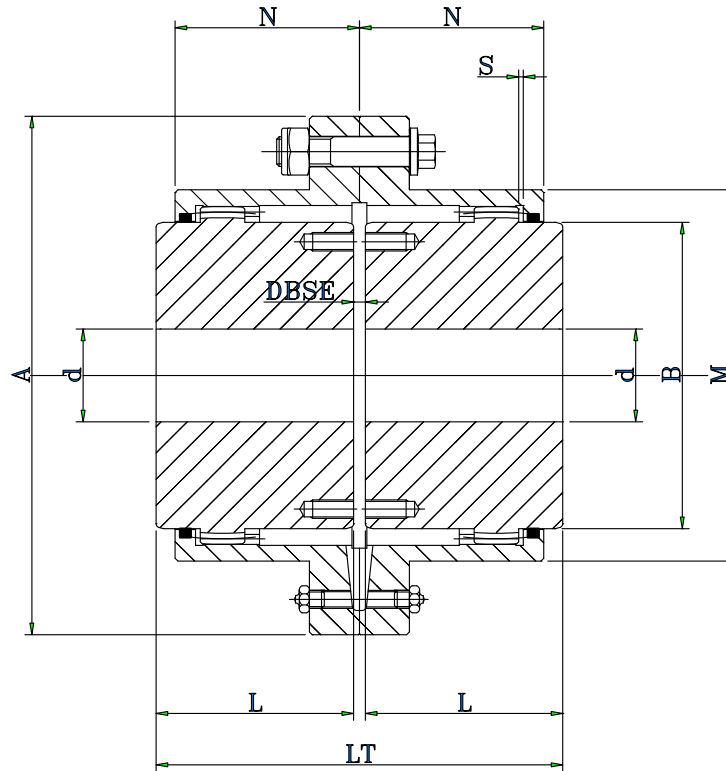


SIZE	Tk [kNm]	Tmax [kNm]	MAX SPEED [rpm]	MAX BORE d [mm]	A [mm]	B [mm]	L1 [mm]	LT1 [mm]	M [mm]	DBSE [mm]
FGC.96.FE	1.9	4.2	6000	52	111	68	105	213	82.5	3
FGC.122.FE	2.9	6.8	4550	62	142	86	115	233	104.6	3
FGC.148.FE	5.7	14.0	4000	78	168	105	130	263	130.5	3
FGC.178.FE	9.0	21.5	3900	98	200	132	150	305	158.4	5
FGC.203.FE	14.5	35.0	3700	112	225	151	170	345	183.4	5
FGC.236.FE	22.8	54.7	3550	132	265	179	185	376	211.5	6
FGC.270.FE	34.8	83.5	3000	156	300	209	215	436	245.5	6
FGC.300.FE	45.8	110	2750	174	330	234	245	498	275	8
FGC.335.FE	70.8	170	2420	190	370	255	295	598	307	8
FGC.368.FE	85.4	205	2270	210	406	280	300	608	335	8
FGC.400.FE	150	360	1950	233	439	306	305	618	367	8
FGC.460.FE	200	480	1730	280	505	356	310	630	423	10

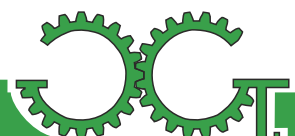


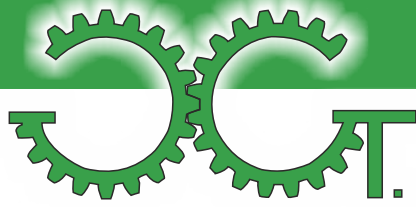


AGMA GEAR COUPLINGS SERIES

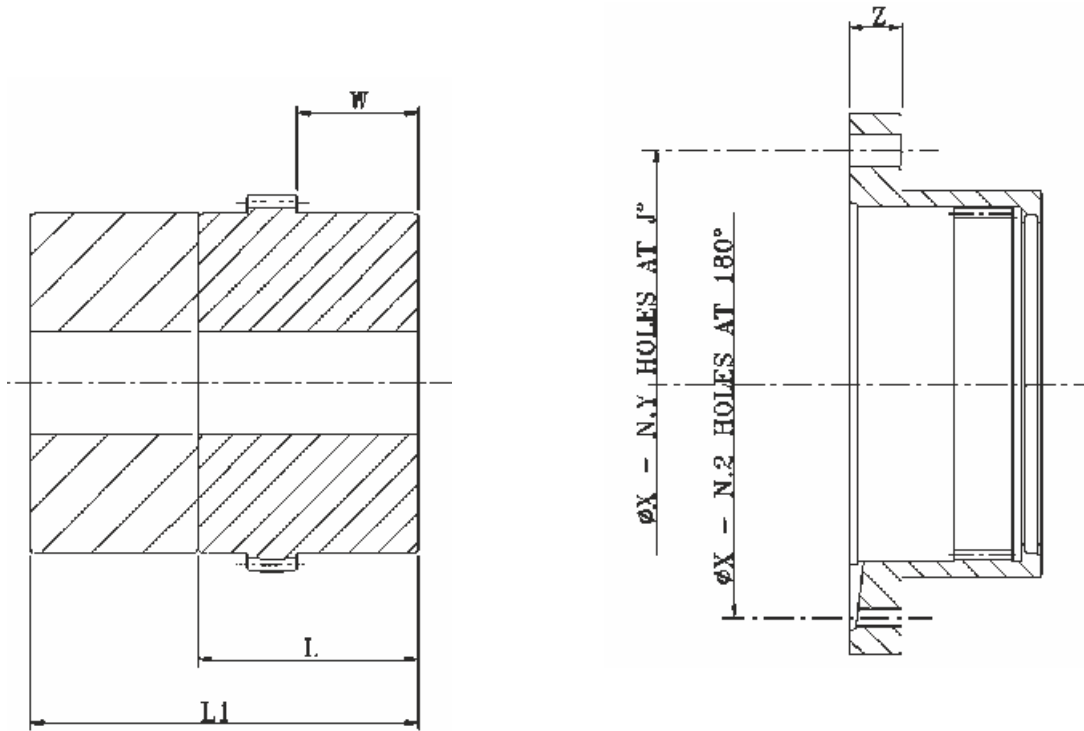


SIZE	Nominal Torque LB-IN	Nominal Torque [kNm]	MAX SPEED [rpm]	MAX BORE d [inch]	MAX BORE [mm]	A [inch]	M [inch]	N [inch]	LT [inch]	B [inch]	DBSE [inch]
A 1	8,850	1.0	6200	1.65	42	4.56	3.06	1.66	3.50	2.31	0.13
A 1.5	19,400	2.2	5700	2.2	56	6.00	3.97	1.88	4.00	3	0.13
A 2	36,200	4.1	5100	2.75	70	7.00	4.86	2.38	5.00	4	0.13
A 2.5	62,800	7.1	4450	3.35	85	8.38	5.84	2.88	6.25	4.63	0.19
A 3	97,300	11	4100	4.21	107	9.44	6.84	3.31	7.38	5.63	0.19
A 3.5	152,200	17.2	3550	4.92	125	11.00	7.91	3.81	8.63	6.50	0.25
A 4	221,200	25	3100	5.5	140	12.50	9.25	4.25	9.75	7.50	0.25
A 4.5	310,600	35.1	2750	6.3	160	13.63	10.38	4.81	10.94	8.50	0.31
A 5	453,100	51.2	2550	6.7	170	15.31	11.56	5.50	12.38	9.50	0.31
A 5.5	691,200	78.1	2250	7.75	197	16.75	12.72	6.00	14.13	10.50	0.31
A 6	794,800	89.8	2100	8.4	213	18.00	14.00	6.69	15.13	11.50	0.31
A 7	1,196,600	135.2	2000	10	254	20.75	15.75	7.38	17.75	13.00	0.38

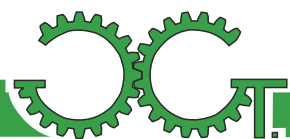


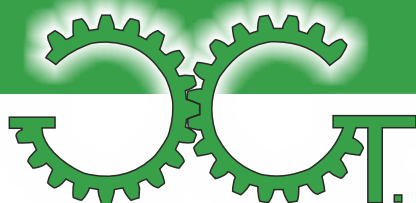


AGMA GEAR COUPLINGS SERIES COMPONENTS: HUB & SLEEVE DETAILS



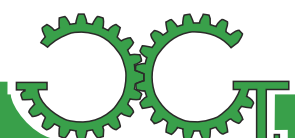
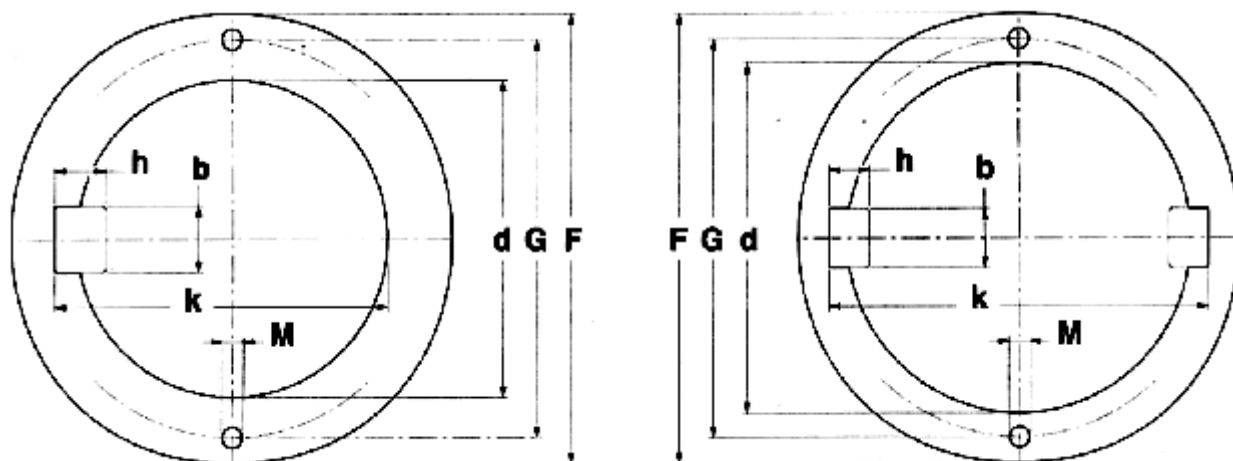
SIZE	Distance between hole centers "X"	Bolts		Flange Thickness Z	Standard Hub Length L	Longer Hub Length L1	W
		Q.ty	Size				
A 1	3.750	6	1/4	0.52	1.69	4.00	0.75
A 1.5	4.812	8	3/8	0.76	1.94	4.50	0.81
A 2	5.875	6	1/2	0.76	2.44	4.50	1.25
A 2.5	7.125	6	5/8	0.85	3.03	6.50	1.53
A 3	8.125	8	5/8	0.85	3.59	7.00	1.69
A 3.5	9.500	8	3/4	1.06	4.19	7.50	1.88
A 4	11.000	8	3/4	1.06	4.75	8.25	2.16
A 4.5	12.000	10	3/4	1.06	5.31	9.00	2.56
A 5	13.500	8	7/8	1.45	6.03	9.50	2.94
A 5.5	14.500	14	7/8	1.45	6.91	10.50	3.19
A 6	15.750	14	7/8	1.00	7.41	AVAILABLE ON DEMAND	
A 7	18.250	16	1	1.12	8.69		

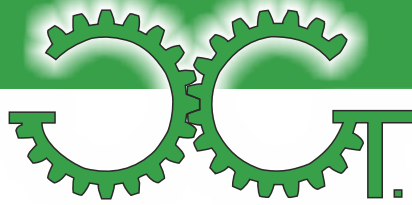




MAX BORE DIAMETERS WITH KEYWAYS

SIZE	MAX BORE WITH 1 KEYWAY			MAX BORE WITH 2 KEYWAYS		
	d max	bXh	k max	d max	bXh	k max
FGC.96	48	14x9	51,8	52	16x10	60,6
FGC.122	62	16x10	66,4	62	18x11	70,8
FGC.148	72	20x12	76,9	78	22x14	88,8
FGC.178	90	25x14	95,4	98	28x16	110,8
FGC.203	105	28x16	111,4	112	32x18	126,8
FGC.236	122	32x18	129,4	132	36x20	148,8
FGC.270	144	36x20	152,4	156	40x22	174,8
FGC.300	160	40x22	169,4	174	45x25	194,8
FGC.335	175	45x25	185,4	190	45x25	210,8
FGC.368	192	45x25	202,4	210	50x28	232,8
FGC.400	210	50x28	221,4	233	56x32	257,8
FGC.460	245	56x32	257,4	280	63x32	304,8

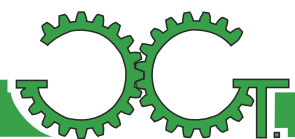
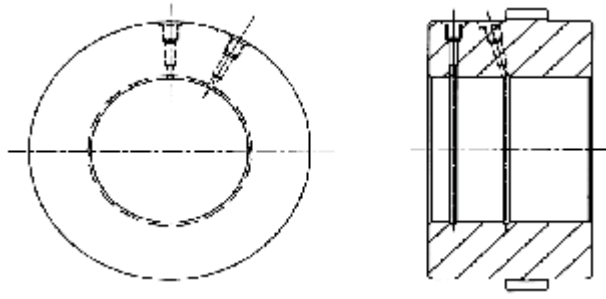


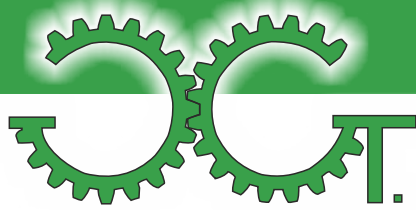


FCG.W

MAX TORQUES - SHRINK FITTING & OIL PRESSURE REMOVAL

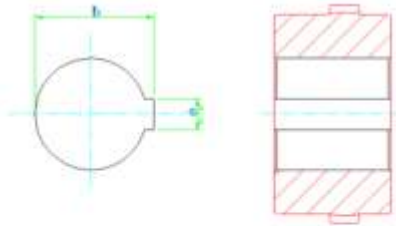
SHAFT DIAMETER [mm]	GEAR COUPLING SIZE HUB LENGTH L [mm]	FGC.96	FGC.122	FGC.148	FGC.178	FGC.203	FGC.236	FGC.270	FGC.300	FGC.335	FGC.368	FGC.400	FGC.460						
		43	50	62	76	90	105	120	135	150	175	190	220						
φ 30	Max Torque [kNm]	0,622																	
	Min/Max Interference [μm]	44/70																	
φ 35	Max Torque [kNm]	0,742																	
	Min/Max Interference [μm]	48/80																	
φ 40	Max Torque [kNm]	0,938	1,306																
	Min/Max Interference [μm]	57/89	58/90																
φ 45	Max Torque [kNm]	1,088	1,613																
	Min/Max Interference [μm]	66/98	67/99																
φ 50	Max Torque [kNm]	1,142	1,914	2,667															
	Min/Max Interference [μm]	74/106	77/109	73/105															
φ 55	Max Torque [kNm]		1,955	2,894															
	Min/Max Interference [μm]		80/118	76/114															
φ 60	Max Torque [kNm]		2,051	3,387	4,887														
	Min/Max Interference [μm]		88/126	86/124	87/125														
φ 65	Max Torque [kNm]			3,732	5,650														
	Min/Max Interference [μm]			94/132	96/134														
φ 70	Max Torque [kNm]			4,034	6,385	8,327													
	Min/Max Interference [μm]			103/141	105/143	106/144													
φ 75	Max Torque [kNm]			4,175	7,064	9,369													
	Min/Max Interference [μm]			114/149	114/152	115/153													
φ 80	Max Torque [kNm]				7,661	10,37	13,47												
	Min/Max Interference [μm]				123/161	124/162	125/163												
φ 85	Max Torque [kNm]				7,679	10,75	14,21												
	Min/Max Interference [μm]				125/169	127/171	128/172												
φ 90	Max Torque [kNm]				8,034	11,58	15,73	19,68											
	Min/Max Interference [μm]				134/178	136/180	138/182	138/182											
φ 100	Max Torque [kNm]					12,76	18,33	23,77	28,54										
	Min/Max Interference [μm]					153/197	156/200	157/201	158/202										
φ 110	Max Torque [kNm]					13,10	20,33	27,52	33,56										
	Min/Max Interference [μm]					169/213	173/217	175/219	176/220										
φ 120	Max Torque [kNm]						21,62	30,87	38,39	45,20									
	Min/Max Interference [μm]						190/234	193/237	194/238	195/239									
φ 130	Max Torque [kNm]							21,15	32,59	41,77	49,79								
	Min/Max Interference [μm]							200/250	205/255	207/257	208/258								
φ 140	Max Torque [kNm]								34,15	45,38	55,18	65,66							
	Min/Max Interference [μm]								221/271	224/274	226/276	215/265							
φ 150	Max Torque [kNm]									34,62	48,15	59,91	72,39						
	Min/Max Interference [μm]									237/287	241/291	244/294	232/282						
φ 160	Max Torque [kNm]										49,84	63,49	78,48	92,40					
	Min/Max Interference [μm]										258/308	261/311	249/299	250/300					
φ 170	Max Torque [kNm]											49,99	65,68	83,67	100,4				
	Min/Max Interference [μm]											274/324	277/327	266/316	268/318				
φ 180	Max Torque [kNm]												66,46	87,40	107,1				
	Min/Max Interference [μm]												293/343	282/332	285/335				
φ 190	Max Torque [kNm]													63,83	87,23	109,2			
	Min/Max Interference [μm]													301/359	290/348	293/351			
φ 200	Max Torque [kNm]														87,70	113,2	159,5		
	Min/Max Interference [μm]														305/363	309/367	314/372		
φ 210	Max Torque [kNm]															86,01	115,1	168,5	
	Min/Max Interference [μm]															319/377	324/382	331/389	
φ 220	Max Torque [kNm]																115,6	175,5	
	Min/Max Interference [μm]																340/398	347/405	
φ 230	Max Torque [kNm]																	113,3	181,1
	Min/Max Interference [μm]																	354/412	363/421
φ 240	Max Torque [kNm]																		184,3
	Min/Max Interference [μm]																		378/436
φ 250	Max Torque [kNm]																		186,0
	Min/Max Interference [μm]																		394/452
φ 260	Max Torque [kNm]																		182,1
	Min/Max Interference [μm]																		403/467
φ 270	Max Torque [kNm]																		178,1
	Min/Max Interference [μm]																		417/481
φ 280	Max Torque [kNm]																		171,2
	Min/Max Interference [μm]																		431/495



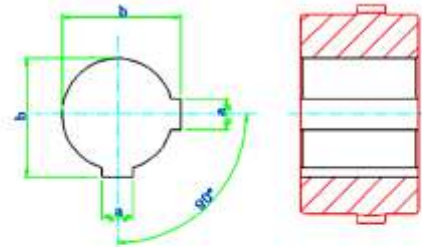


FINISHED BORE TYPOLOGY

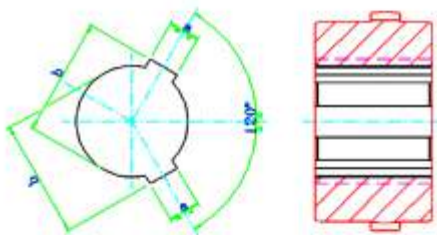
CYLINDRICAL FINISHED BORE & 1 KEYWAY



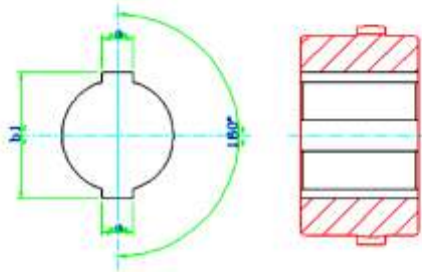
CYLINDRICAL FINISHED BORE & 2 KEYWAYS @ 90°



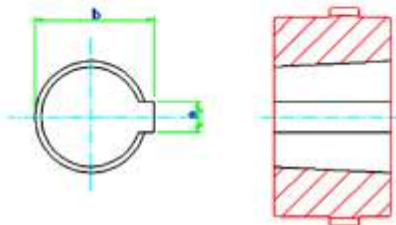
CYLINDRICAL FINISHED BORE & 2 KEYWAYS @ 120°



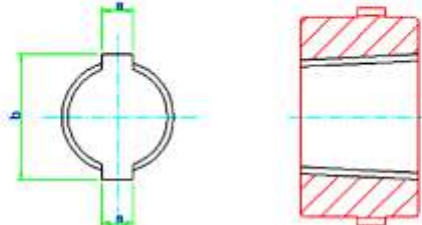
CYLINDRICAL FINISHED BORE & 2 KEYWAYS @ 180°



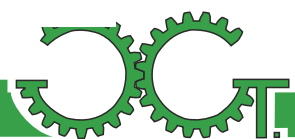
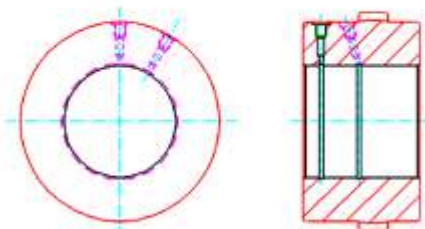
TAPERED FINISHED BORE & 1 KEYWAY

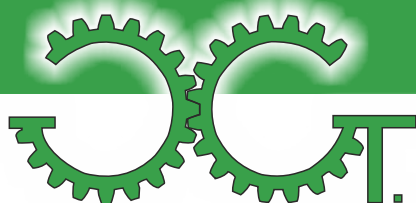


TAPERED FINISHED BORE & 2 KEYWAYS @ 180°



CYLINDRICAL FINISHED BORE WITH SHRINK FITTING & OIL PRESSURE REMOVAL





INSTALLATION, MAINTENANCE & LUBRICATION

Instructions for installation:

- 1) Disassemble the GGT gear coupling into its main components: hubs and sleeves.
- 2) Ensure that all components are clean.
- 3) Place the sleeves or flange seal covers on the shafts.
- 4) Fit the hubs on the shafts; if you proceed by heating the hubs, never exceed a temperature of 170°C.
- 5) To ensure optimum lifetime of the GGT gear coupling is necessary to perform the alignment of the shafts in a scrupulous way. To perform the alignment, use a comparator fixed on one of the two hubs and make it rotate on the other hub (fig.8), reading the value divided by two gives the value of the parallel misalignment. The angular misalignment must be checked with a comparator fixed on a hub and made to rotate on the facade of the other hub (fig.8), or with controlled thickness gauge in at least three position at 120°C (fig.9). In case of installation of gear couplings complete with spacers, run laser alignment, if you can not use the laser, follow the instructions according to the figure 10.
- 6) After the shaft alignment is executed, proceed with the lubrication of the seals and the installation of the sleeves on the hubs.
- 7) Put together the sleeves using the screws provided with the gear coupling, that have to be tightened at the proper torque.(see fig. 11)

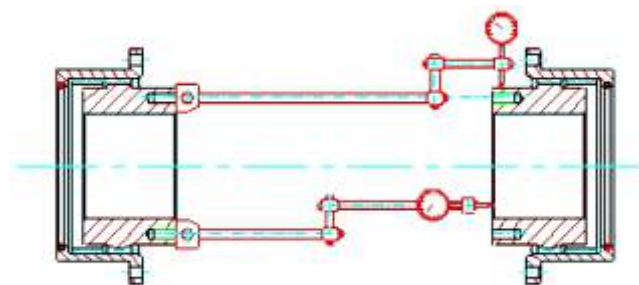


Fig.8

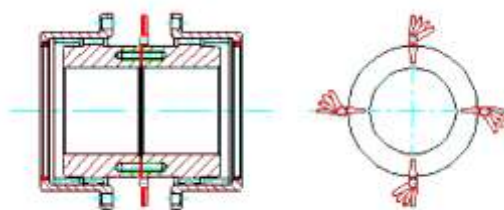


Fig.9

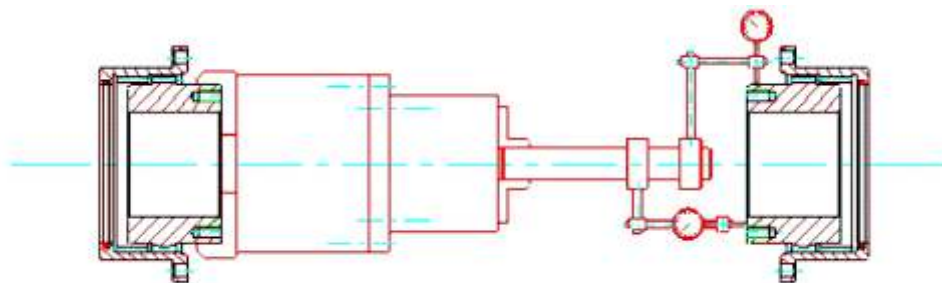
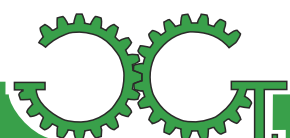
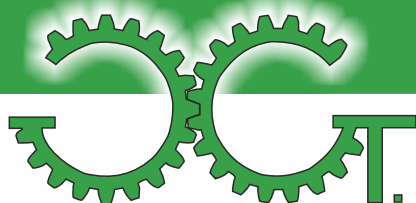


Fig.10





SIZE	Tightening torque [Nm]	Distance between hole centers [mm]	N. of holes	Hole diameter H8-d8
FGC.96	18	96	6	8/M8
FGC.122	36	122	8	10/M10
FGC.148	36	148	10	10/M10
FGC.178	65	178	10	12/M12
FGC.203	65	203	12	12/M12
FGC.236	150	236	12	16/M16
FGC.270	150	270	14	16/M16
FGC.300	150	300	14	16/M16
FGC.335	220	335	14	18/M18
FGC.368	400	368	14	22/M22
FGC.400	400	400	14	22/M22
FGC.460	520	460	16	24/M24

Fig.11

8) To obtain an adequate lifetime of the coupling, the proper lubrication is a critical step: pump through the bottom grease nipples places on the sleeves until it comes out from the top grease nipples. In the periods immediately after the start-up, lubricate every two months, then every four months. Every two years or 10,000 hours of operation, perform the complete replacement of the grease.

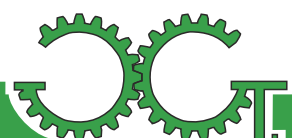
The GGT gear couplings are supplied with no lubricant.

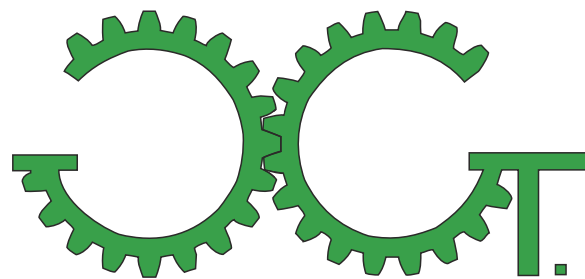
If the coupling is equipped with self-lubricating device you need to fill only once a year.

Suitable lubricants for the proper functioning of GGT gear coupling respects the features indicated below:

LUBRICANT FEATURES

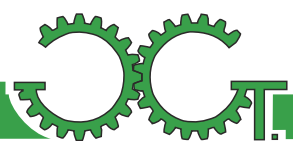
Thickener:	Lithium complex
NLGI Grade:	2
Application range of temperature:	- 30°C + 160°C
Penetration at 25°C:	265 - 295 (0.1 mm)
Anti-rust performance:	YES
Dropping Point:	> 260°C
Base oil viscosity at 40°C:	340 mm ² /s (cSt)

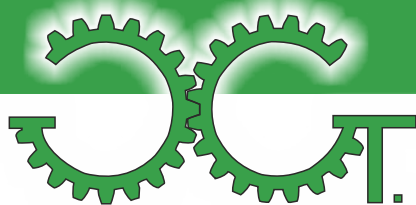




Green Gear Transmissions S.r.l.

CATALOGUE - DGC 2014 EDITION





GGT GEAR COUPLINGS FOR CRANES – DGC SERIES

FEATURES & COMPOSITION

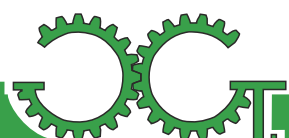


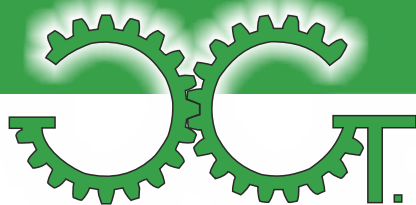
GGT drum couplings, DGC series, are composed of:

- One semicircular gear sleeve;
- One gear hub with developed toothing;
- Special seals to ensure the perfect tightness of the inner part, preventing inlet of dust and outlet of grease;
- Special inner cover;
- Grease nipple;

DGC SERIES ADVANTAGES

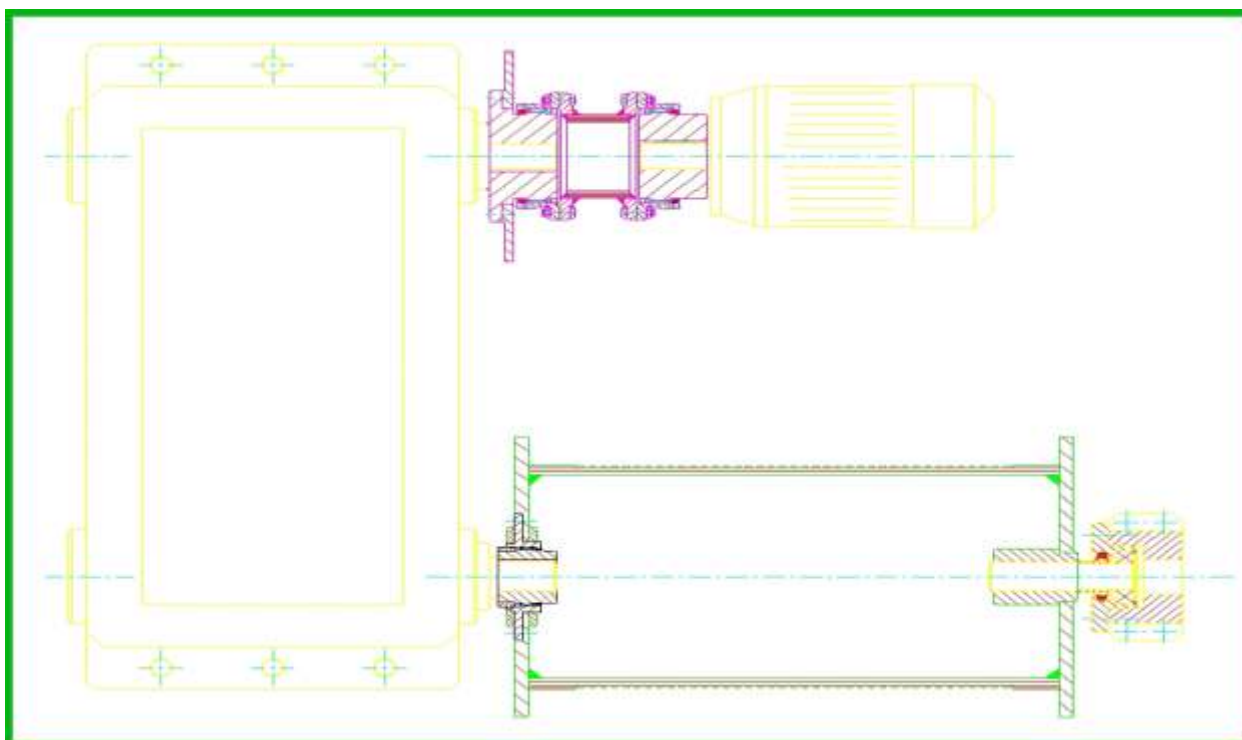
- 1) IMPROVED DESIGN**
- 2) STRENGTHENED TOOTH**
- 3) LONGER LIFETIME**
- 4) HIGHER LOAD CAPACITY**
- 5) HIGHER TRANSMITTABLE TORQUE**
- 6) FULL RANGE OF SIZES**





GGT GEAR COUPLINGS FOR CRANES – DGC SERIES

APPLICATION

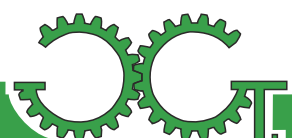


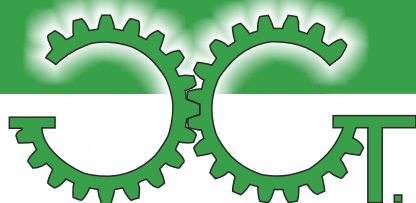
Lay-out of a single drum drive with a drum gear coupling

GGT drum gear couplings are typically suitable for installation in lifting mechanisms and drum drives of cranes, to connect the cable drum with the gearbox output shaft, as well as in winch conveyors and platform hoists.

GGT drum gear couplings, installed between the gearbox and cable drum, perform the function of an articulated joint, in order to make the connection statically determinate and avoiding the occurrence of high bending moments.

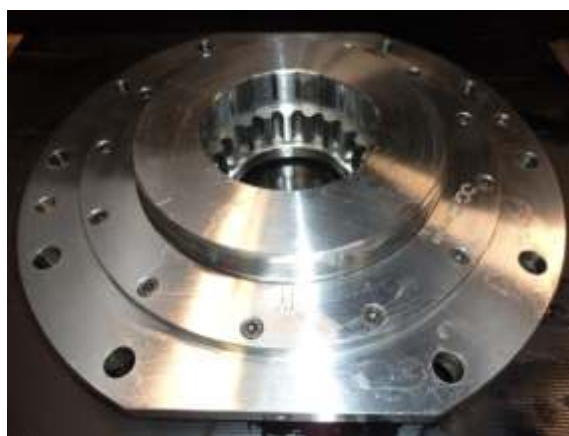
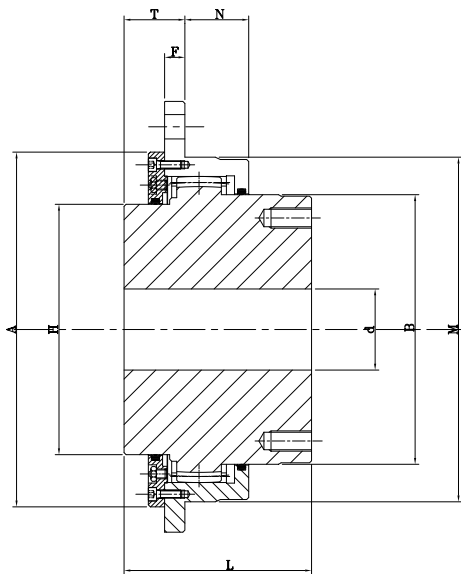
From the design point of view, we can grant longer lifetime, due to our improved gear toothings, in combination with our special lubricant, which distinguishes itself from the others in terms of the oil base, essentially.



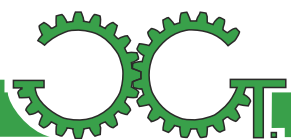


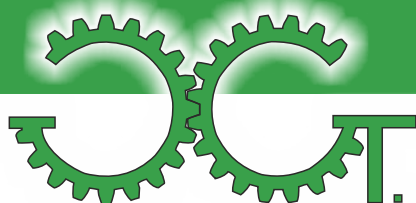
GGT GEAR COUPLINGS FOR CRANES – DGC SERIES

DIMENSIONS & PARAMETERS



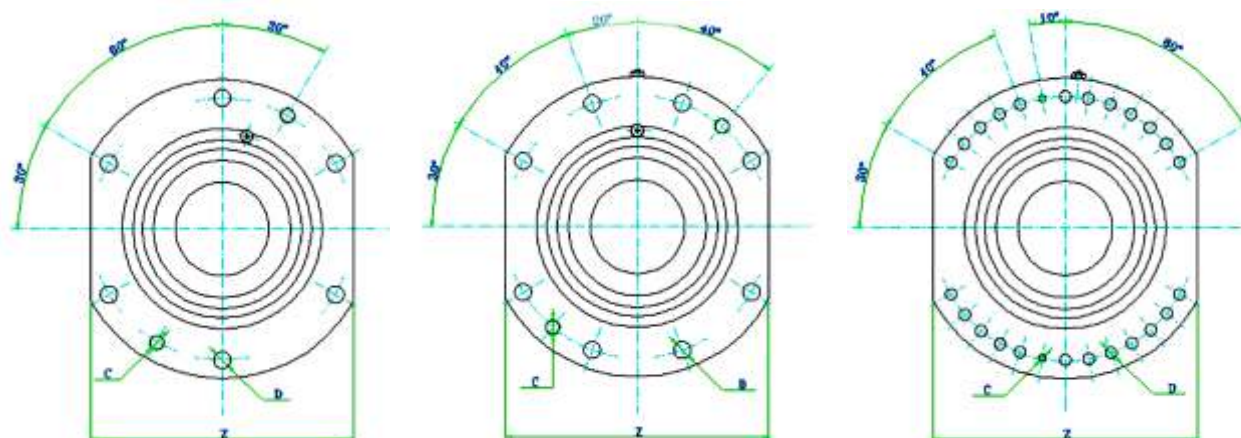
SIZE	Nominal Torque Tk [kNm]	Max Torque Tf [kNm]	Max Load Qp [kg.]	Max Bore d [mm]	A	H	M	B	L	Z	Weight
DGC280	22,2	33,3	3600	100	320	280	200	149	110	6	26
DGC300	27,5	41,3	4050	110	340	300	220	165	125	6	34
DGC320	34,1	51,2	4500	120	360	320	240	184	130	6	44
DGC340	46,2	69,3	5500	130	380	340	260	196	145	6	52
DGC360	61	92	6750	150	400	360	280	222	170	6	70
DGC380	83	125	8300	165	420	380	310	253	175	6	96
DGC400	97	146	11300	175	450	400	340	266	185	6	120
DGC460	146	219	14600	210	510	460	400	317	220	6	158
DGC500	168	252	16000	220	550	500	420	330	240	6	223
DGC530	205	443	18200	245	580	530	450	368	260	8	284
DGC600	352	528	22500	290	650	600	530	435	315	8	466
DGC630	380	570	25400	305	680	630	560	460	350	24	574
DGC670	475	713	29400	330	710	670	600	500	380	24	718
DGC730	593	890	35800	375	780	730	670	560	410	24	956
DGC800	708	1062	42000	410	850	800	730	610	450	24	1230





GGT GEAR COUPLINGS FOR CRANES – DGC SERIES

FLANGE DRILLING



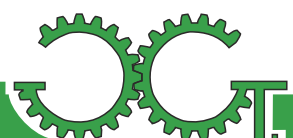
Z number of holes

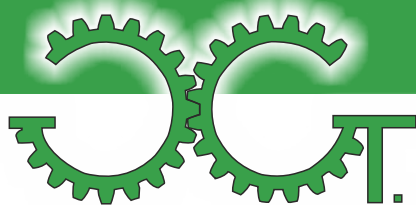
DIMENSIONING

PARAMETERS	To check the following conditions:
T [kNm] = $(P \times 9,55)/n$	$T_k = T \times K$
P [Kw] motor power - n [rpm] speed	T [kNm] = max torque on the drum
K = Service Factor	T_k [kNm] = nominal torque of the coupling
Q [kg] = max radial load	max radial load of the coupling $Q_p = Q$
D [mm] = shaft diameter	max bore diameter of the coupling $d = D$

SERVICE FACTOR FOR HOISTING DEVICE

CLASS acc. to UNI 7670	1 mC	1 mB	1 mA	2 m	3 m	4 m	5 m	5 m
Max Period of Use [h]	400	800	1600	3200	6300	12500	25000	50000
Service Factor K	1,00	1,12	1,25	1,40	1,60	1,80	2,00	2,50

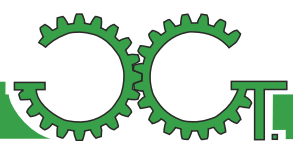


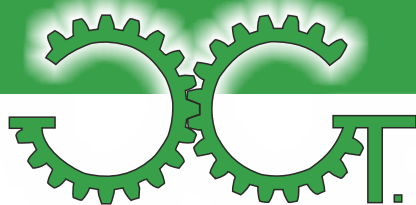


GEAR COUPLINGS



Standard gear couplings: FGC series

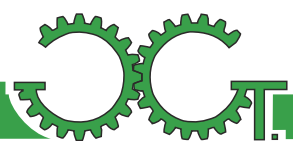


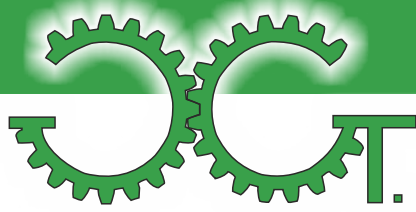


STANDARD GEAR COUPLINGS ARE MANUFACTURED IN 12 SIZES AND THEY CAN BE SUPPLIED WITH FINISHED BORES



OR WITH PILOT BORES.





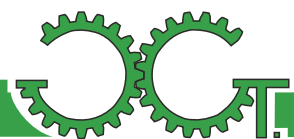
GEAR COUPLING WITH
ELECTRICAL INSULATION

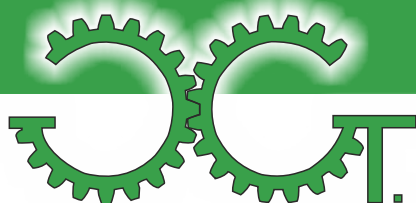
FGC (size) EI



GEAR COUPLING WITH
ELECTRICAL INSULATION
AND TUBULAR SPACER

FGC (size) T.EI





GEAR COUPLING WITH BRAKE DISC OF THE VENTILATED TYPE
FGC (size) DVP



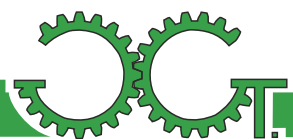
GEAR COUPLING WITH STANDARD BRAKE DISC
FGC (size) BD

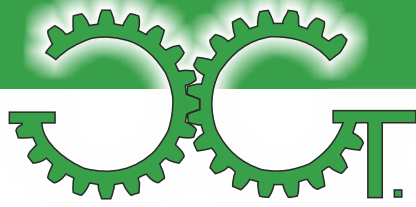


GEAR COUPLING WITH BRAKE PULLEY
FGC (size) BP



GEAR COUPLING WITH STANDARD BRAKE DISC AND TUBULAR SPACER
FGC (size) BD.T





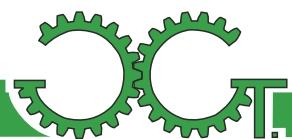
GEAR COUPLING WITH
DISENGAGEABLE DEVICE AND
TUBULAR SPACER
FGC (size) DI.T

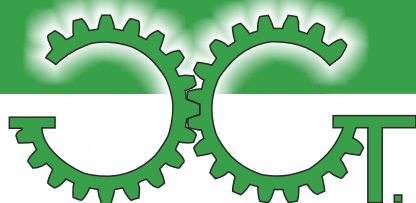
SPECIAL DISENGAGEABLE
GEAR COUPLINGS
FOR PIPE MILL



GEAR COUPLING WITH
DISENGAGEABLE DEVICE

FGC (size) DI.X





GEAR COUPLING WITH CONTINUOUS OIL LUBRICATION

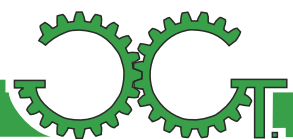


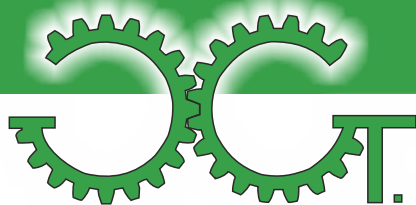
GEAR HUBS AND SLEEVES IN 42CrMo4 GAS NITRIDED



GEAR COUPLING WITH CONITNUOUS OIL LUBRICATION, ASSEMBLED WITH TUBULAR SPACER

FGC (size) T.OIL.X

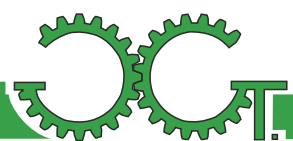


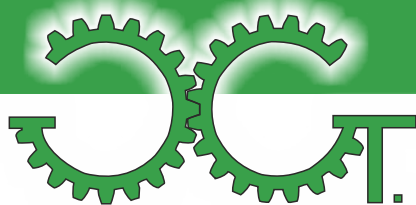


DISENGAGEABLE GEAR COUPLING
TYPE FGC.460.DI



DISENGAGEABLE GEAR COUPLING
TYPE FGC.300.DI



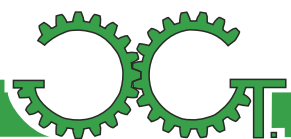


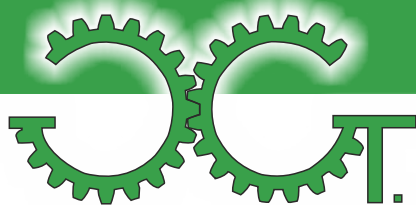
CONTINUOUS OIL LUBRICATION

GEAR COUPLING WITH TUBULAR SPACER



FGC.300.T.OIL





GEAR COUPLING WITH SHEAR PIN SAFETY DEVICE FOR BAR MILLS

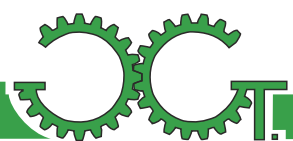


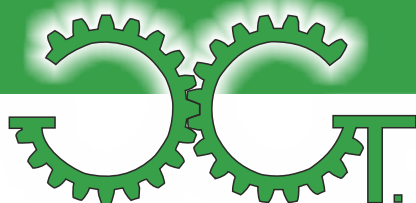
GEAR COUPLING WITH BIBBIGARD SAFETY DEVICE



INTERMEDIATE FLANGES WITH SHEAR PIN SAFETY DEVICE

FGC.270.DI.EI





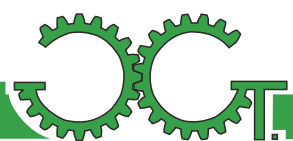
GEAR COUPLING WITH SLIDING GEAR TEETH
FGC.270.S.SG

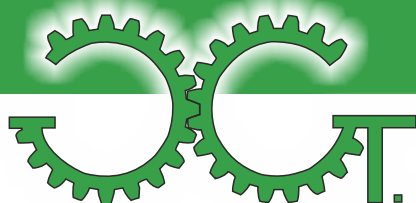


GEAR COUPLING WITH SOLID SHAFT



GEAR COUPLING WITH SOLID SHAFT





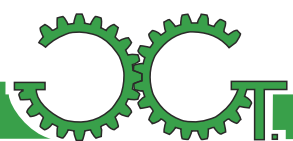
GEAR COUPLINGS WITH LONG TUBULAR SPACER PROVIDED WITH HEAT TREATMENT: BLACK TREATMENT (NITRO - OXIDATION)

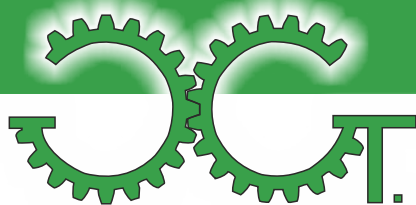
FOR TUBE-DRAWING FACTORY

HALF GEAR COUPLINGS PROVIDED WITH HEAT TREATMENT: BLACK TREATMENT (NITRO - OXIDATION)



GEAR COUPLINGS WITH 4 METERS TUBULAR SPACER, PROVIDED WITH HEAT TREATMENT: BLACK TREATMENT (NITRO-OXIDATION)





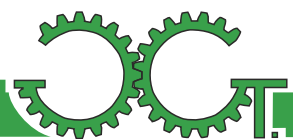
HEAVY DUTY GEAR COUPLING
WITH LONG HUBS

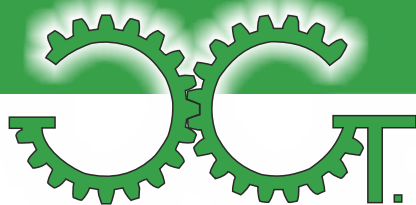
FGC.460.LL



HEAVY DUTY
GEAR COUPLING
FOR MAIN DRIVE
FINISHING MILL

FGC.581.HD.LL





SLEEVE TOOTHING

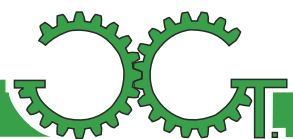


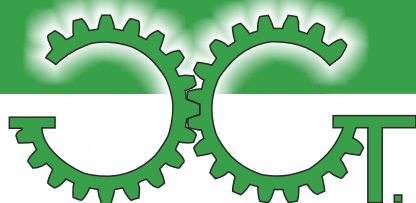
HEAVY DUTY GEAR COUPLING WITH
TUBULAR SPACER
FOR CEMENT FACTORY



FGC.762.HD.T

HUB TOOTHING





SLEEVE MARKED GGT



HEAVY DUTY
HALF GEAR
COUPLING



FGC.696.T.HD

HEAVY DUTY GEAR COUPLING WITH TUBULAR SPACER FOR ANCHOR DRIVE FOR ROLLS-ROYCE



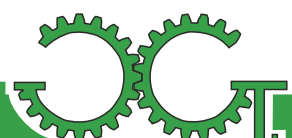
HEAVY DUTY GEAR HUBS
WITH HEXAGONAL BORE AND
TEETH WITH INDUCTION
TEMPERING

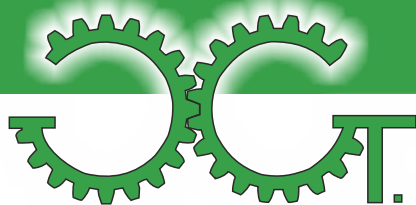


HEAVY DUTY GEAR HUBS
WITH INDUCTION TEMPERING

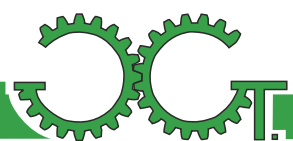


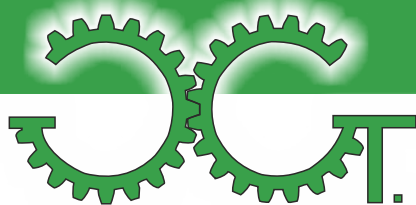
SLEEVE TEETH WITH
INDUCTION TEMPERING



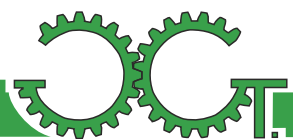


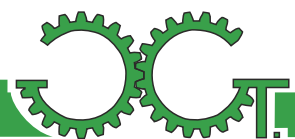
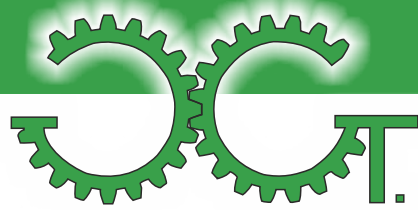
SPECIAL GEAR COUPLING WITH TUBULAR SPACER
(PAPER MACHINE)

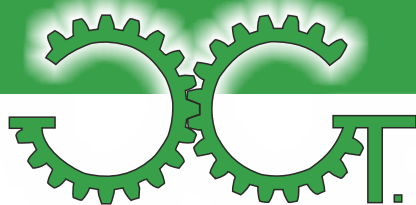




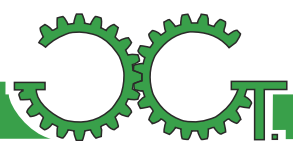
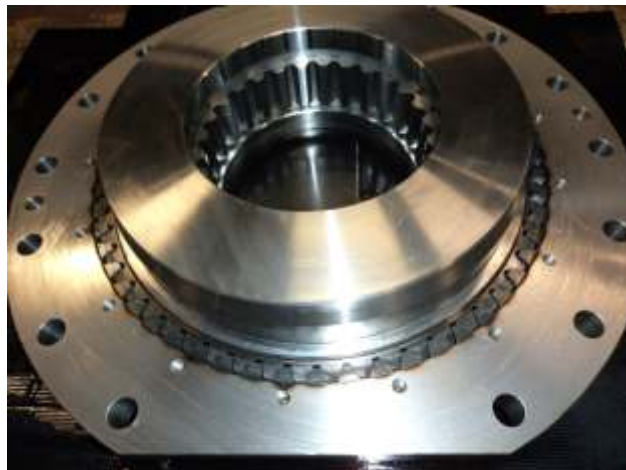
DISENAGEABLE GEAR COUPLING
TYPE: FGC.203.T.DI.X





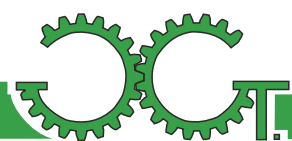


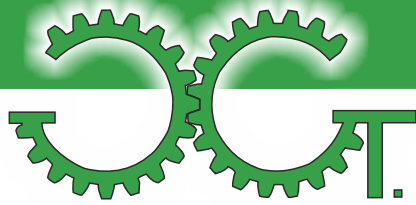
DRUM GEAR COUPLINGS



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Scurzolengo - Italy

ISSUE 2015





Green Gear Trasmissioni S.r.l.

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