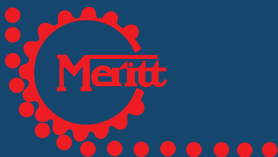
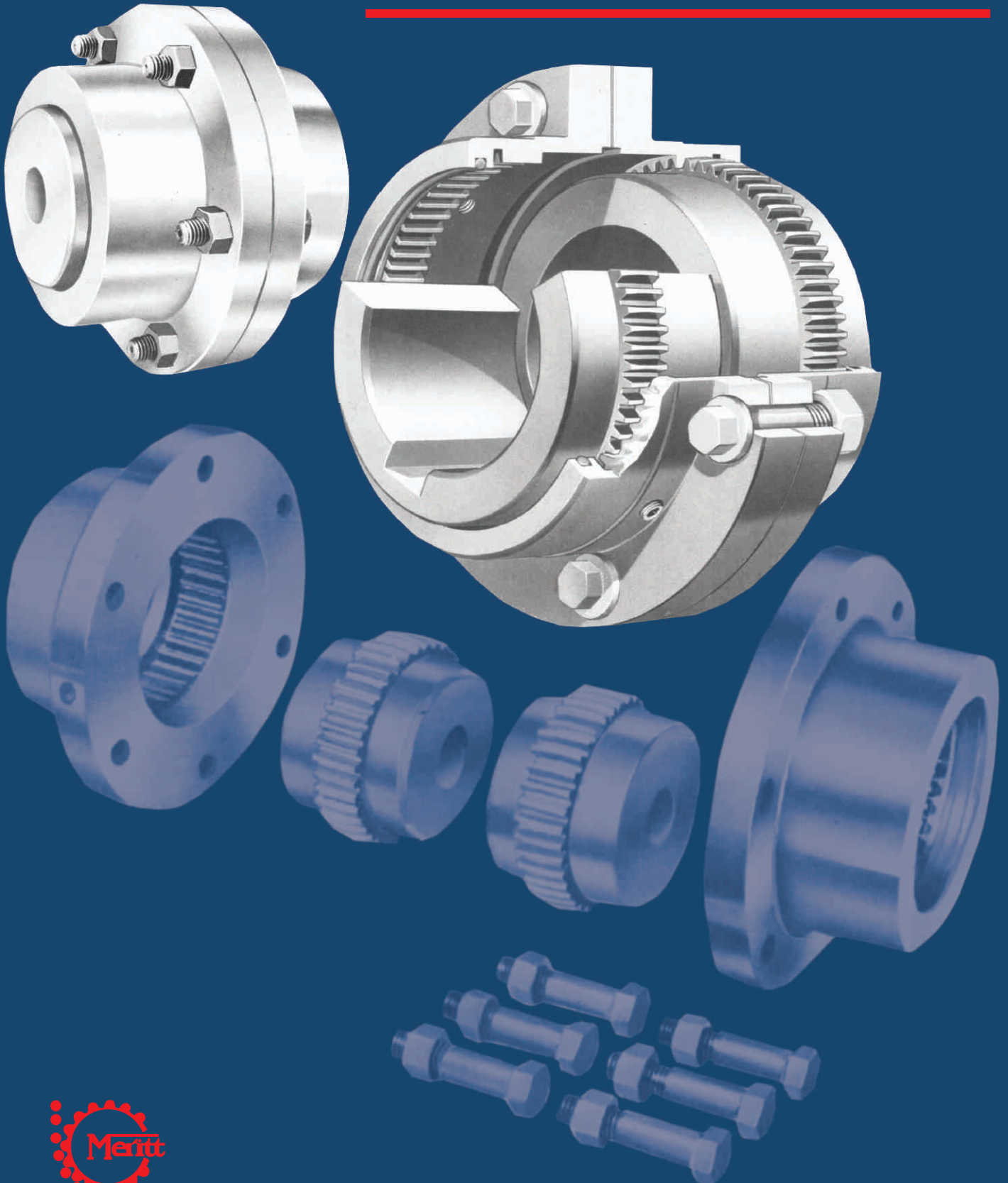


# Meritt

## GEARED COUPLING BRAKE DRUM COUPLING



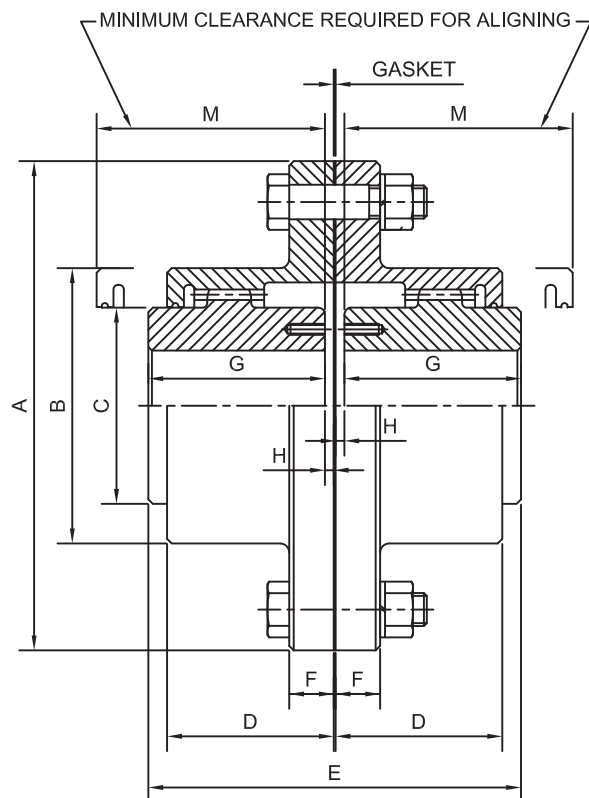
# Full Geared Couplings



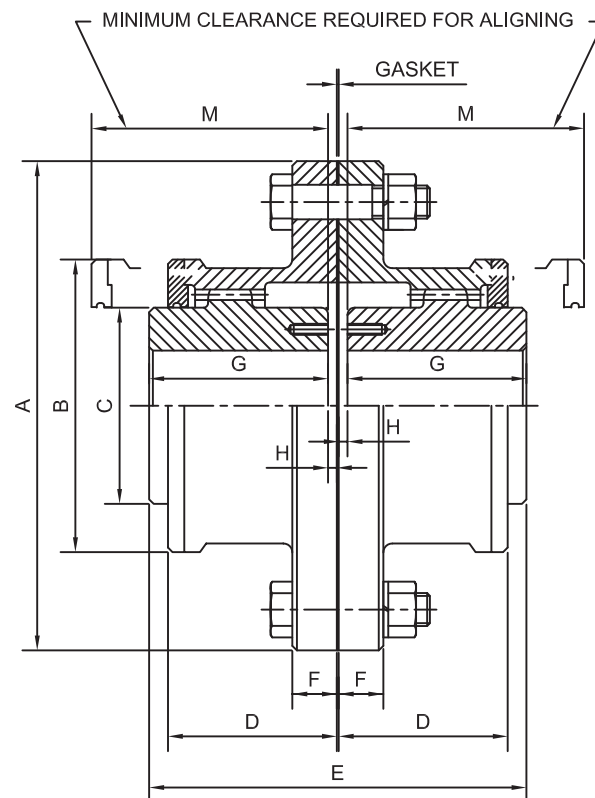
MERITT Flexible Gear Coupling has teeth of involute flanks, and faces curved in both directions, so that they are able to accommodate angular misalignment by a ball and socket action. Flexibility is obtained by play between the teeth.

MERITT Flexible Gear Coupling gear improves the accuracy of the fit, results in smoother and quieter operations, and offers long service life with minimum maintenance. It also provide high power / size ratio. Lubrication is provided by heavy oil, enclosed in a dust and grit-proof casing, and distributed over the gear teeth by centrifugal action. The large area of lubricated surface also cushions shock, and permits fairly high-speed operations.

Full geared coupling accomodates both parallel offset and angular misalignment.... or a combination of the two, as well as end float.



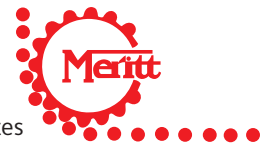
FOR COUPLING NO. 101 TO 110



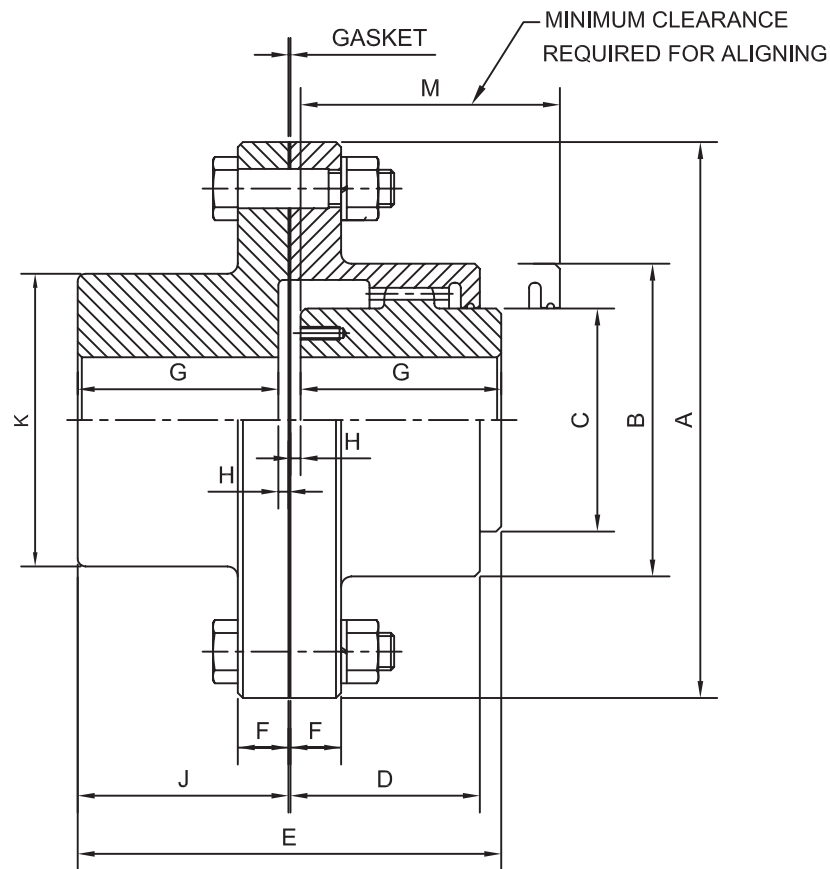
FOR COUPLING NO. 111 TO 119

COUPLING No. FGC-	PILOT BORE IN MM	MAX. BORE IN MM	MAX. TORQUE IN Kg m	MAX. SPEED IN R.P.M.	WEIGHT IN Kgs.	H.P. CAPACITY AT 100 R.P.M.	FLYWHEEL MOMENT IN Kg m <sup>2</sup>	DIMENSIONS IN MM								
								A	B	C	D	E	F	G	H	M
101	21	50	100	6300	10	14	0.139	170	110	65	49	115	17	55	2.5	55
102	30	60	250	5000	15	35	0.204	185	125	85	62	135	17	65	2.5	80
103	40	75	440	4000	26	61.5	0.482	220	150	105	78	175	20	85	2.5	105
104	50	90	840	3300	40	117	0.941	250	175	130	96	215	20	105	2.5	126
105	60	110	1310	2800	62	183	1.900	290	200	155	106	230	25	110	5.0	138
106	75	125	2000	2500	85	280	3.050	320	230	175	117	260	25	125	5.0	155
107	90	140	3450	2100	120	482	5.250	350	260	205	134	290	25	140	5.0	177
108	105	160	4500	1900	180	630	8.530	380	290	230	147	320	25	155	5.0	190
109	125	180	5600	1700	210	784	15.050	430	330	250	156	340	25	165	5.0	208
110	140	220	8200	1400	290	1148	30.500	490	390	310	171	370	25	180	5.0	218
111	160	260	11000	1250	550	1536	56.82	545	445	350	192	410	30	200	10.0	245
112	180	300	14700	1120	710	2053	88.60	590	490	400	231	490	30	240	10.0	288
113	200	330	20000	1000	980	2793	138.8	680	555	440	242	530	35	260	10.0	318
114	220	370	28600	900	1250	3994	291.3	730	610	500	266	570	35	280	10.0	340
115	250	410	34750	800	1700	4852	353.1	780	660	540	305	655	35	320	15.0	385
116	300	455	60000	710	2550	8378	690.7	900	755	625	335	720	45	350	20.0	423
117	375	520	85350	630	3620	11917	1235.3	1000	855	720	386	820	45	400	20.0	490
118	450	610	113000	560	4860	15778	1965.7	1100	950	810	430	920	55	450	20.0	533
119	520	710	149000	500	6380	20805	3012.3	1250	1050	910	446	1000	55	485	30.0	558

# Half Geared Couplings



Half geared coupling comprises one standard flexible half coupling and one rigid half coupling. It accommodates angular misalignment only and is therefore often used in pairs with a cardan shaft between the couplings.



COUPLING No. HGC-	PILOT BORE IN MM	MAX. BORE IN MM (RIGID)	MAX. BORE IN MM (FLEX.)	MAX. TORQUE IN Kg m	MAX. SPEED IN R.P.M.	WT. IN Kgs.	H.P. CAPACITY AT 100 R.P.M.	FLYWHEEL MOMENT IN Kg m <sup>2</sup>	DIMENSIONS IN MM										
									A	B	C	D	E	F	G	H	J	K	M
101	21	60	50	100	6300	9.5	14	0.139	170	110	65	49	115	17	55	2.5	57.5	85	55
102	30	75	60	250	5000	14.5	35	0.204	185	125	85	62	135	17	65	2.5	67.5	100	80
103	40	90	75	440	4000	25.0	61.5	0.482	220	150	105	78	175	20	85	2.5	87.5	125	105
104	50	110	90	840	3300	38.0	117	0.941	250	175	130	96	215	20	105	2.5	107.5	150	126
105	60	125	110	1310	2800	58.5	183	1.900	290	200	155	106	230	25	110	5.0	115.0	175	138
106	75	140	125	2000	2500	81.0	280	3.050	320	230	175	117	260	25	125	5.0	130.0	200	155
107	90	160	140	3450	2100	155.5	482	5.250	350	260	205	134	290	25	140	5.0	145.0	220	177
108	105	180	160	4500	1900	174.0	630	8.530	380	290	230	147	320	25	155	5.0	160.0	250	190
109	125	220	180	5600	1700	202.5	784	15.050	430	330	250	156	340	25	165	5.0	170.0	300	208
110	140	260	220	8200	1400	280.0	1148	30.500	490	390	310	171	370	25	180	5.0	185.0	350	218

$$\text{Torque (kg-mtr)} = \frac{716.2 \times \text{HP} \times \text{SF}^*}{\text{RPM}}$$

$$\text{H.P per 100 rpm} = \frac{\text{HP} \times \text{SF}^* \times 100}{\text{RPM}}$$

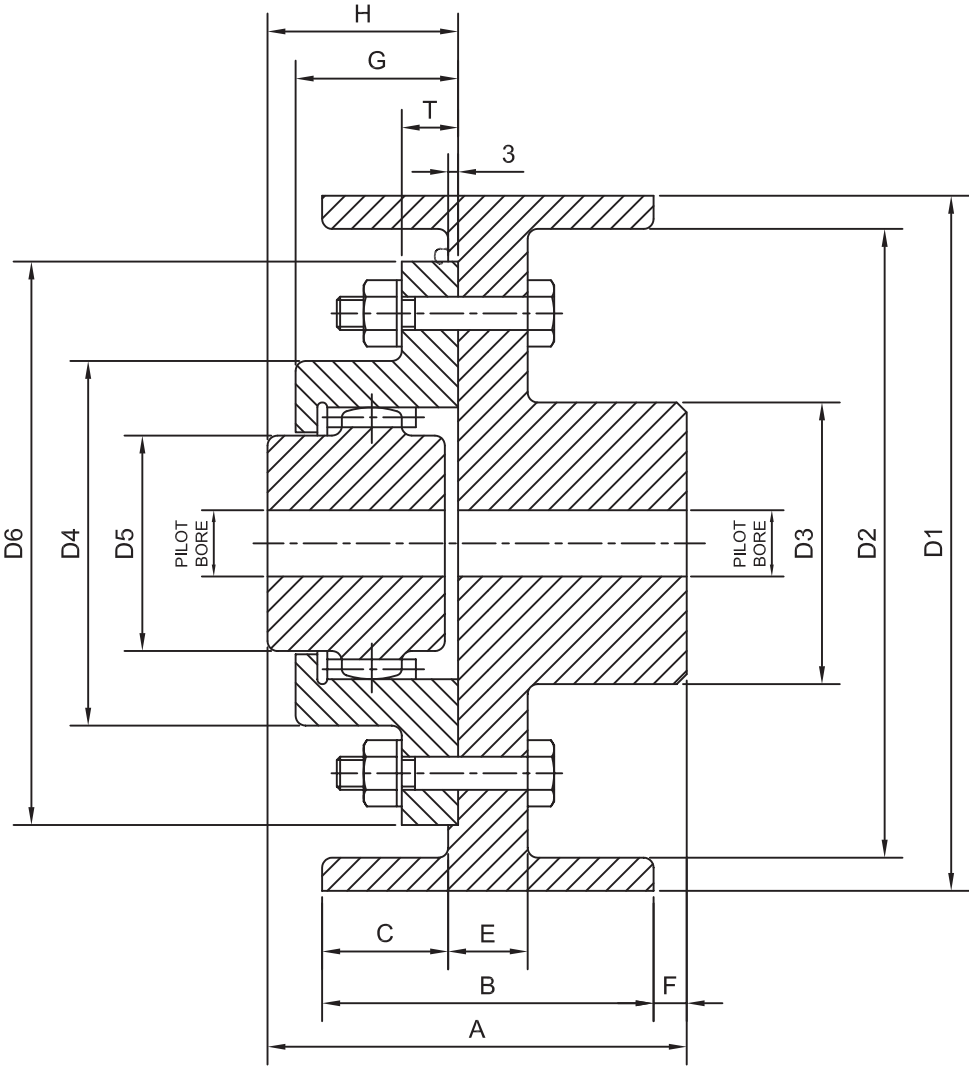
\* SF = Service Factor

Also available:

\*Heavy duty gear coupling for steel plants and rolling mills

\*Spacer type gear coupling.

# Geared Brake Drum Couplings



No. GBD-	COUPLING SIZE	D1	D2	D3	D4	D5	D6	A	B	C	E	F	G	H	T	PILOT BORE	MAX. BORE
1	100	150	130	56	75	50	120	98.5	85	32.5	20	2.5	39.5	46.5	15	10	35
2	101	200	180	85	110	65	170	126.5	100	38	24	10	49	57.5	17	20	50
3	102	250	230	130	125	85	185	143.5	120	51	24	10	62	67.5	17	30	60
4	103	250	230	130	125	85	220	163.5	120	51	24	10	78	87.5	20	40	75
5	103	300	270	130	150	105	220	191.5	150	63	32	10	78	87.5	20	40	75
6	104	400	374	150	175	130	250	239.5	200	75	50	10	96	107.5	20	50	90
7	105	500	450	160	200	155	290	257	210	80	50	10	106	115	25	60	110

- ALL DATA CONCERNING DIMENSIONS AND RATINGS MUST BE CONSIDERED APPROXIMATIVE
- MODIFICATION RESERVED.



# Meritt

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