



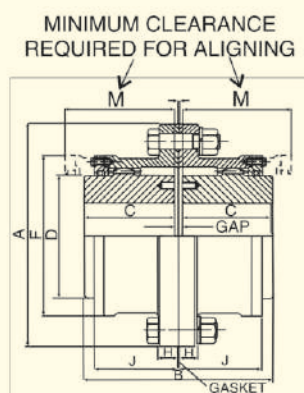
SBPT GEAR COUPLING



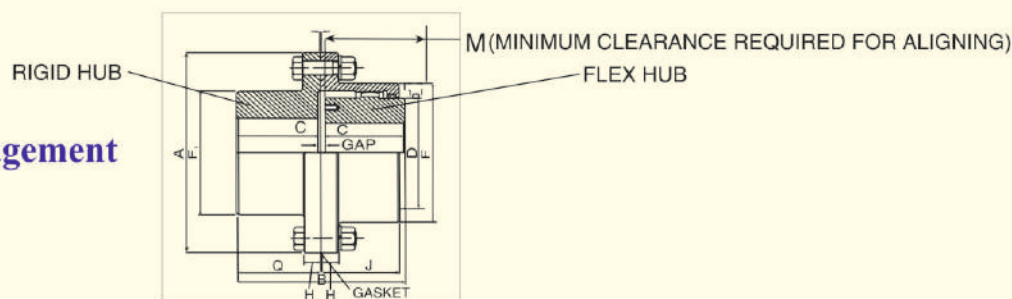
ISO 9001:2015

BG - Double Gear Engagement

Ideal for all standard applications in Steel, Thermal and Paper Plant, Fans, Overhead Cranes, Conveyors, equipments etc.. We also manufacture special requirement like spacer, cardan shaft, limited end float, brake drum type etc.



Coupling Size BG	H.P. Capacity At 100 R.P.M.	Max Torque kpm	Max R.P.M.	Bore Min mm.	Bore Max mm.	A mm.	C mm.	D mm.	F mm.	M mm.	H mm.	J mm.	B mm.	Wt in kg	WR ² in kgm ²
01	14	100	4500	20	45	170	55	65	110	65	17	49	115	11	0.14
02	35	250	4100	30	60	185	70	85	125	80	27	62	145	15	0.20
03	63	450	3475	40	75	220	85	105	150	105	20	78	175	25	0.48
04	119	850	3050	50	90	250	105	130	175	125	20	96	215	39	0.95
05	182	1300	2650	60	110	290	110	155	200	140	25	106	230	57	1.90
06	280	2000	2400	75	125	320	125	175	230	155	25	117	260	85	3.00
07	490	3500	2200	90	140	350	140	205	260	175	25	134	290	103	5.25
08	630	4500	2000	105	160	380	155	230	290	190	25	147	320	138	8.50
09	784	5600	1800	125	180	430	165	250	330	205	27	156	340	210	15.00
10	1148	8200	1550	140	220	490	180	310	390	220	27	171	370	277	30.50
11	1536	11000	1400	160	260	545	200	350	445	240	30	192	410	550	58.00
12	2053	14700	1300	180	300	590	240	400	490	280	30	231	490	710	88.00
13	2793	20000	1100	200	330	680	260	440	555	310	35	242	535	980	138
14	3994	28600	1050	220	370	730	280	500	610	330	35	266	575	1320	291
15	4852	34750	975	250	410	780	320	540	660	370	35	305	655	1700	353



BH - Single Gear Engagement

Coupling Size BH	H.P. Capacity At 100 R.P.M.	Max Torque kpm	Max R.P.M.	Bore Min mm.	Flex Bore Max mm.	Rigid Bore Max mm.	A mm.	C mm.	D mm.	F mm.	F1 mm.	M mm.	H mm.	J mm.	Q mm.	B mm.	Wt in kg	WR ² in kgm ²
01	14	100	4500	20	45	60	170	55	65	110	85	65	17	49	57.5	115	11	0.15
02	35	250	4100	30	60	75	185	70	85	125	110	80	27	62	72.5	145	15	0.24
03	63	450	3475	40	75	90	220	85	105	150	130	105	20	78	87.5	175	20	0.51
04	119	850	3050	50	90	110	250	105	130	175	160	125	20	96	107.5	215	40	1.0
05	182	1300	2650	60	110	130	290	110	155	200	185	140	25	106	115	230	60	2.0
06	280	2000	2400	75	125	150	320	125	175	230	215	155	25	117	130	260	80	3.3
07	490	3500	2200	90	140	170	350	140	205	260	240	175	25	134	145	290	106	5.8
08	630	4500	2000	105	160	200	380	155	230	290	285	190	25	147	160	320	149	9.5
09	784	5600	1800	125	180	220	430	165	250	330	315	205	27	156	170	340	170	16.8
10	1148	8200	1550	140	220	260	490	180	310	390	370	220	27	171	185	370	264	35.0

SELECTION

- Check your application against the Service Factor Chart and select service Factor
- Use the Following formula to obtain HP per 100 RPM and torque of your application

$$\text{HP} \times \text{Service Factor} \times 100 / \text{RPM} = \text{HP} / 100 \text{ RPM}$$

$$\text{Torque in kpm.} = \text{HP} \times \text{Service Factor} \times 716.2 / \text{RPM}$$
- Select Coupling size and check hub bore
- Check allowable speed

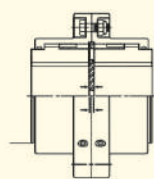
SERVICE FACTOR

LOAD	DRIVEN EQUIPMENT	PRIME MOVER		
		Electric Motor or Steam Turbine	Gasoline or Diesel Engine more than 6 Cylinder	Gasoline or Diesel Engine 4 Cylinder
Uniform	Centrifugal Pump– Uniform load, Conveyors, Fans, Blowers – Light duty, Exciters, Generators–Uniform load, Mixers-Liquid.	1.0	1.5	1.75
Light Shock	Centrifugal Pumps-Pulsating load, Generator Pulsating load, Grinder, Hydraulic Pump, Line Shafting, Machine Tools, Textile Machineries.	1.5	1.75	2.0
Medium Shock	Reciprocating Air Compressor – Multi cylinder, Ball & Rod Mills, Cranes, Elevators, Hoists, Punch Press, REC Pump, Shears, Deck machinery, Welding Generator.	2.0	2.25	2.5
Heavy Shock	Air Compressor–1 cylinder, Dredges, Drilling Rigs, Mine Machinery, Rolling mill Drive, Rubber Mixer.	2.5	2.75	3.0
Extreme Shock	Ore Crushers, Vibrating Conveyors, Bar stock Shear.	3.0	3.5	4.0

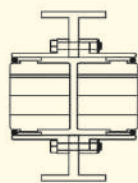
Lubrication :

Gear Couplings must be filled with proper grade of Grease or Oil while installation and also periodically. It is recommended to use grease where the maximum temperature is within 80 °C and for temperature above 80 °C oil should be used. We suggest to use following grades of Grease/Oil for a good performance. For speed above 1500 RPM use oil SERVOMESH A-90 of Indian Oil Corporation having viscosity 91 C/S at 100 °C or of 324 = 35 cst/50 °C OR equivalent. For lesser speeds use grease with high-pressure additives like SERVOPLEX EP-1 of Indian Oil Corpn. or SHELL ALVAMIA EP- 2 or lithium/sodium grease with EP/ additives drop over 180° C of penetration.

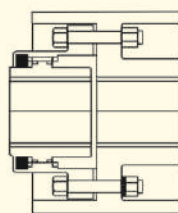
Other Design



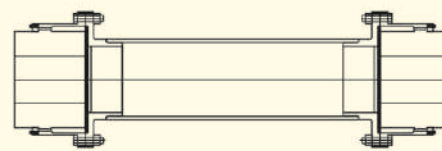
Limited End Float type



Full Gear Coupling with Brake Drum



Half Gear Coupling with Brake Drum



Floating Shaft Gear Coupling - with tubular spacer shaft

SBPT TECHNOLOGIES PVT. LTD.

3/1 & 4, Bangur Avenue, Block - 'C',
Kolkata - 700 055, India

Mobile : +91 94330 03633, 94330 03174, 94323 16409

E-mail : sbpt@sbpttech.com, support@sbpt.in

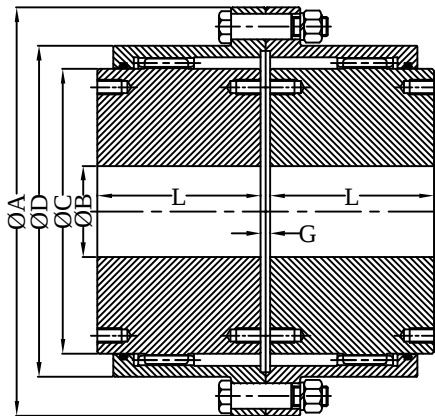
Website : www.sbpt.in, www.sbpttech.com

SBPT Multi Crowned Gear Couplings are designed for a safe continuous operation. For the selection of a coupling size following a parameters must be considered.

- * input power and input torque
- * input speed
- * Shaft Dia
- * work condition , starting frequency , ambient temperature
- * mounting and installation condition

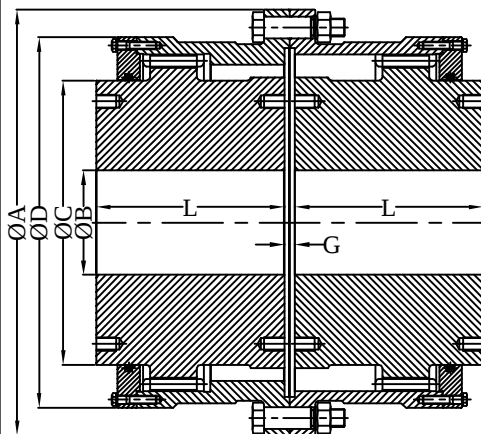
The rated torque given in the table is valid for an exactly uniform load and exactly aligned shafts.

Size : SD - 130 To SD - 17400



Size	Rated Torque kNm	Max. Torque kNm	Dimension in mm							Max. Speed RPM	Wt. kg.	Moments of Inertia kgm ²
			ØA	ØD	ØC	ØB		L	G			
SD - 130	1.3	2.6	111	80	67	Pilot Bore	Max. Bore	43	3	8000	4.5	0.006
SD - 280	2.8	5.6	141	103.5	87	15	60	50	3	7500	7.5	0.016
SD - 500	5	10	171	129.5	106	25	75	62	3	6500	14.5	0.040
SD - 1000	10	20	210	156	130	30	95	76	5	5500	26	0.105
SD - 1600	16	32	234	181	151	35	110	90	5	4900	38	0.193
SD - 2200	22	44	274	209	178	50	130	105	6	4250	62	0.445
SD - 3200	32	64	312	247	213	60	155	120	6	3700	93	0.873
SD - 4500	45	90	337	273	235	75	175	135	8	3450	120	1.344
SD - 6200	62	124	380	307	263	85	195	150	8	3050	171	2.479
SD - 8400	84	168	405	338	286	95	215	175	8	2800	226	3.753
SD - 11500	115	230	444	368	316	115	240	190	8	2600	280	5.448
SD - 17400	174	248	506	426	372	145	275	220	10	2300	417	10.959

Size : SD - 25200 To SD - 110000



Size	Rated Torque kNm	Max. Torque kNm	Dimension in mm							Max. Speed RPM	Wt. kg.	Moments of Inertia kgm ²
			ØA	ØD	ØC	ØB		L	G			
SD - 25200	252	504	632	550	422	155	310	280	15	1830	680	27.55
SD - 29000	290	580	640	518	432	195	320	292	13	1800	770	31.82
SD - 37000	370	740	715	616	472	205	355	310	20	1600	935	49.64
SD - 45000	450	900	750	648	502	225	370	330	20	1500	1115	66.99
SD - 56000	560	1120	804	682	580	275	450	350	13	1400	1550	109.5
SD - 75000	750	1500	910	812	620	285	480	410	25	1250	2200	204.36
SD - 90000	900	1800	980	860	670	315	515	430	25	1150	2535	273.42
SD - 110000	1100	2200	1020	908	700	325	540	450	25	1050	2940	343.30

Note :-

- 1) Weight & M.I. Values are in Pilot Bore.
- 2) Maximum Angular Misalignment $\pm 0.75^\circ$
- 3) Max. Torque for Shock / Passing Through Critical.
- 4) The specifications contained herein are subject to change without notice.