



# HIGHLY FLEXIBLE COUPLING

## INTRODUCTION :

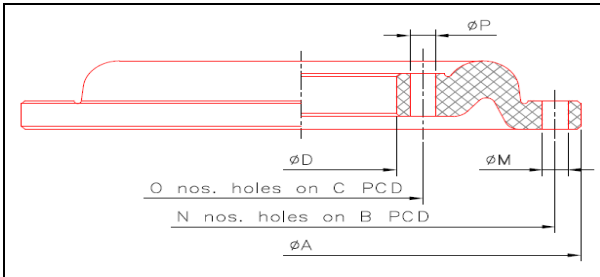
- The TS and TSS are highly durable rubber elements offering remarkable flexibility in all directions.
- These essentially consist of highly flexible steel lamination and fabric reinforced diaphragm designed to transmit very high torque while compensating for Axial, Radial and Angular shaft displacement either in single or in combination.
- High damping characteristics and low dynamic torsional stiffness result in a low frequency drive system, ensuring that critical speeds remain below operational speeds.



## INDUSTRY APPLICATION :

- Marine : Main Propulsion and Auxiliary Drives.
- Cement : Raw Mill , Coal Mill , Cement Mill , Fan.
- Thermal Power : Blow Mill , Conveyor , Crusher.
- Others : Compressor , Generator , SDL , UDM , Locomotive etc.

## DIMENSION CHART OF RUBBER ELEMENT :

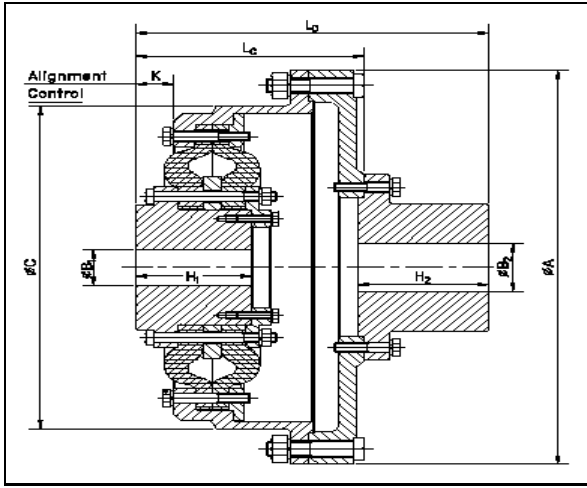


Size - TS/TSS	Group	A	B	C	D	O nos.	Ø P	N nos.	Ø M
35/40	1	153.0	140.0	67.0	52.5	12.0	7.0	12.0	7.0
43/45	2	181.0	168.0	89.0	73.0	12.0	7.5	12.0	7.0
51/55	3	206.0	190.0	99.0	82.0	12.0	8.7	12.0	8.7
61/65	4	238.0	219.0	118.0	97.0	12.0	9.5	12.0	9.0
71/80	5	280.0	255.0	134.0	108.0	12.0	11.1	12.0	11.1
86/95	6	338.0	316.0	170.0	143.0	12.0	15.1	12.0	11.1
102/115	7	392.0	366.0	198.0	169.0	12.0	17.5	12.0	14.0
121/135	8	458.0	427.0	230.0	192.0	12.0	18.0	12.0	14.0
141/165	9	528.0	496.0	264.0	226.0	12.0	18.8	16.0	14.8
171/195	10	628.0	588.0	318.0	272.0	16.0	21.4	16.0	19.4
201/230/235	11	738.0	688.0	372.0	314.5	16.0	25.3	16.0	23.3
241/275	12	863.0	808.0	440.0	376.5	16.0	28.7	16.0	25.7
310/360	14	1060.0	990.0	560.0	480.0	16.0	34.4	16.0	34.4

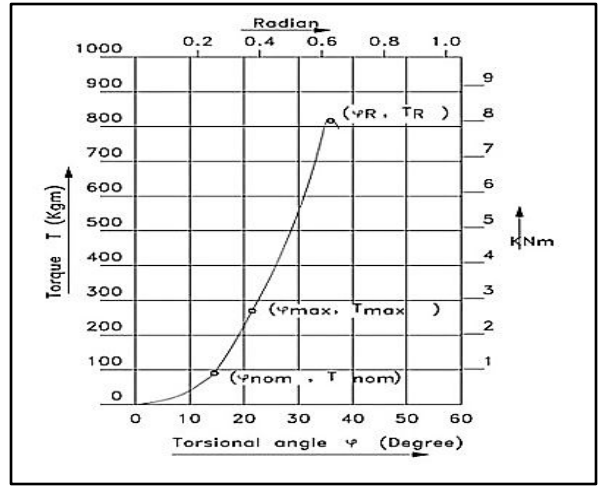
6	SPL	208	190	99	81	10	9	10	9
8S	SPL	258	242	129	110.5	12	11	12	9
15	SPL	286	266	145	120	8	13	12	11
27	SPL	320	300	169	145	12	13	12	11
44	SPL	345	322	178	152	12	15	12	13

- Stiffness will be changed depend on the applications

## □ DIMENSIONS :



## □ TOQUE VS DEFLECTION CURVE :



## □ DIMENSION CHART FOR TS/TSS HIGHLY FLEXIBLE COUPLING :

Group	Normal Torque $T_{nom}$ (Kgm)	Maximum Torque $T_{max}$ (Kgm)	Dimension										
			Diameters						Lengths				
			B1		B2		A	C	H1	H2	K	Lc	Ld
			Plot	Max	Plot	Max							
1	22	66	13	34	18	51	220	184	51	57	15	104	158
1	32	96											
2	47	141	18	49	23	57	251	212	61	61	20	117	175
2	57	171											
3	67	201	23	54	28	69	289	240	68	70	22	128	195
3	77	231											
4	105	315	28	64	38	79	329	272	79	89	25	157	242
4	140	420											
5	180	540	38	76	48	109	379	319	102	110	35	178	284
5	235	705											
6	310	930	48	101	58	129	444	377	125	128	46	207	331
6	410	1230											
7	480	1440	58	121	68	148	513	440	144	149	51	245	389
7	690	2070											
8	880	2640	68	136	78	168	592	511	165	174	64	285	454
8	1190	3570											
9	1790	4470	75	161	90	200	689	586	200	195	78	332	522
9	2050	6150											
10	2550	7650	90	191	110	240	809	698	220	228	86	349	571
10	3500	10500											
11	4400	13200	110	231	130	285	959	824	260	271	105	411	677
11	5450	16350											
11	7050	21150											
12	8400	25200	130	281	170	325	1111	955	304	339	122	491	825
12	10700	32100											
14	18200	54600	220	331	240	375	1387	1196	398	474	138	682	1148
14	30700	92100											

- Split type rubber element also available for Raw Mill , Coal Mill etc.
- Sizes – 970-1 , 840-1 , 630-1 , 500-1 , 430-1 , 375-1 etc.

## LOCO COUPLING



## TEAM CONSULTANTS AND ENGINEERS