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INDIA

murugappa

Pin Bush Flexible Couplings

From the house of TIDC INDIA

- Strong & Compact Steel Body
- Absorbs Heavy Shock
- Rectifies Large Misalignment

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www.seimitsu.in

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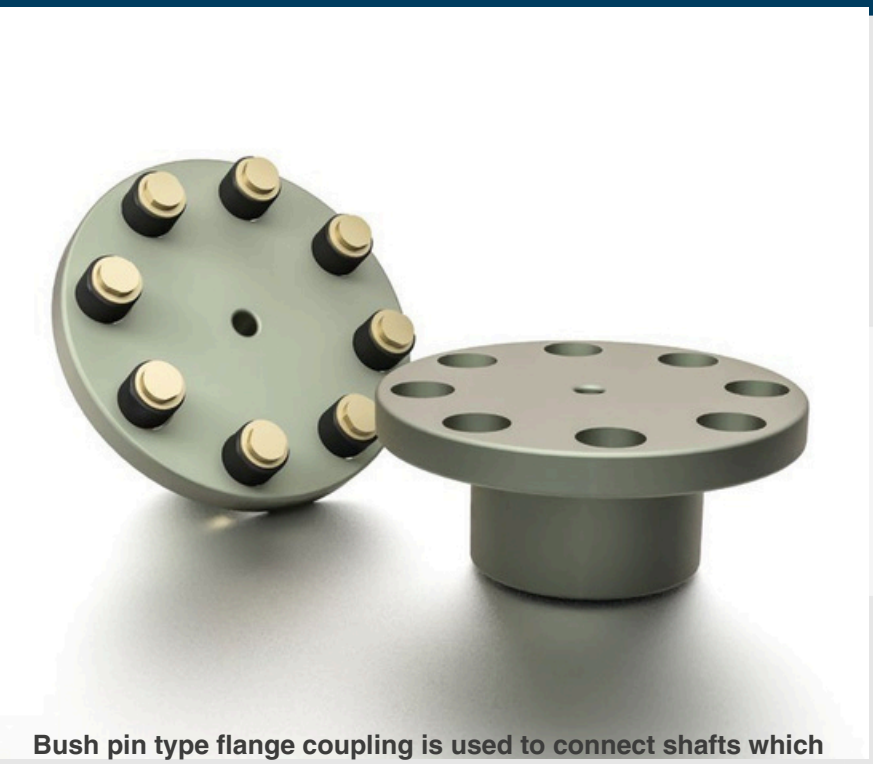

Bush pin type flange coupling is used to connect shafts which are having a small parallel misalignment, angular misalignment or axial misalignment. This is a modification of the protected type flange coupling which has pins (covered by rubber or leather bushes) and it works with coupling bolts.

Flexible Couplings should be used to accommodate any combination of misalignment conditions described below.

At installation, all couplings should be aligned as near to perfect as possible.

Angular

Angular misalignment is present when the shaft axes are inclined one to the other. Its magnitude can be measured at the coupling faces.

Parallel

Offset Axial misalignment is present when the axes of the driving and driven shafts are parallel but laterally displaced.

End float (axial)

End float is the ability to accommodate a relative axial displacement of the connected shafts; achieved by sliding members or flexing of resilient components.

Torsional flexibility

Torsional flexibility is a design feature necessary to permit shock and impulsive loadings to be suitably dampened. It is achieved by the provision of a flexible medium such as rubber, springs, etc., between the two halves of the coupling.

Selection

In order to select the correct type and size of coupling, the following basic information should be known

Power to be transmitted

- Normal.
- Maximum.
- Whether continuous or intermittent.

Characteristics of the drive

- Type of prime mover and associated equipment.
- Degree of impulsiveness of driven load.

Speed in revolutions per minute

- At which normal power is transmitted.
- At which maximum power is transmitted.
- Maximum speed.

Dimensions of shafts to be connected

- Actual diameter.
- Length of shaft extension.
- Full keyway particulars.

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Features and benefits

- Steel half bodies, strong yet compact.
- Heavy duty pin and bush coupling - for heavy shock load conditions.
- Torsionally flexible - shock absorbing, extending machine life.
- Maintenance free - minimum number of wearing parts.
- Misalignment capabilities allowing flexibility in installation.
- PU bushes, reliable / flexible and temperature resistant.

Applications

Conveyors

Escalators

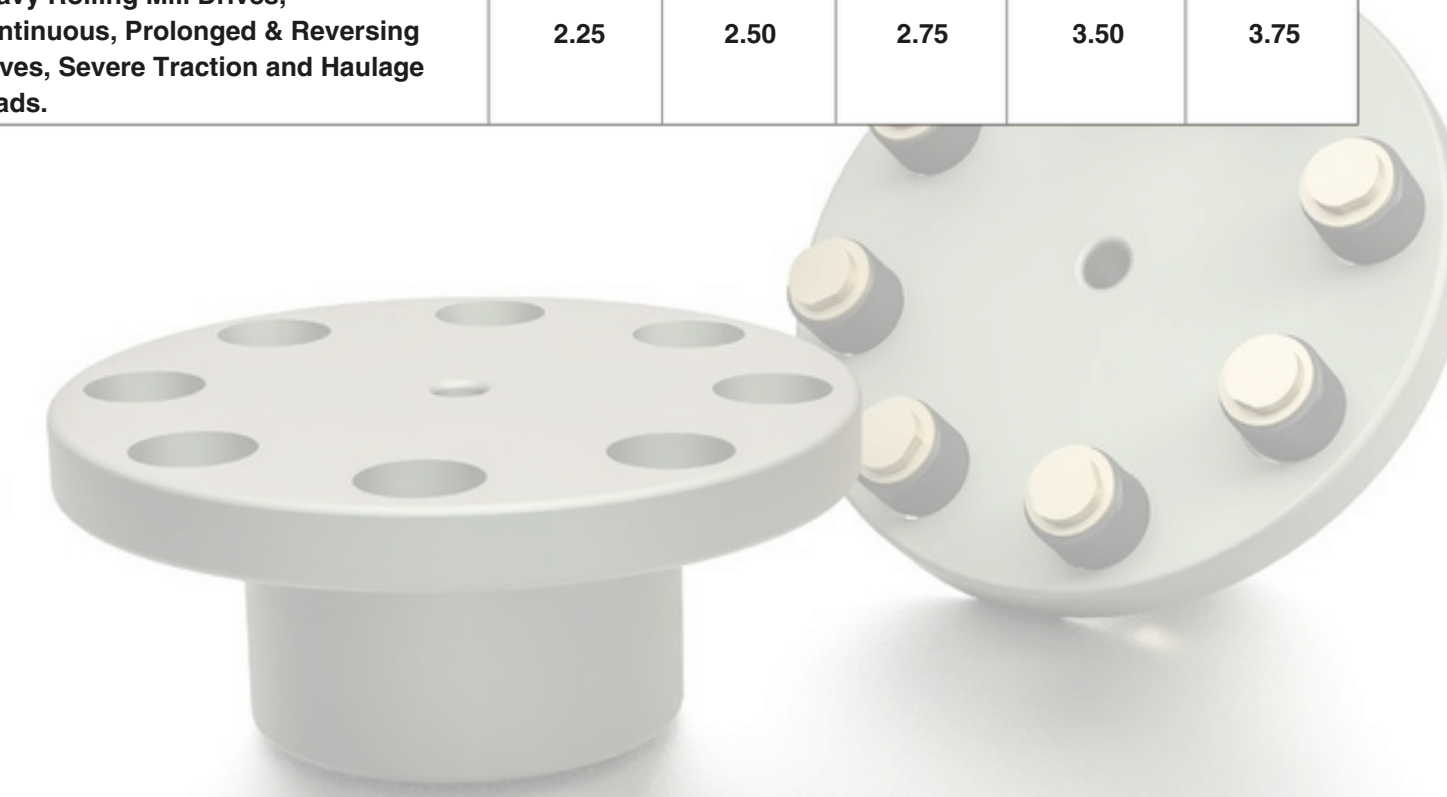
Mixers

Pumps

General Industrial Applications

Pin Bush Type Flexible Coupling

Driven Machine	Prime Mover				
	Electric Motor Steam Turbine Shafting	Steam Engine Water Turbine	IC Engine Multi Cylinder	IC Engine Single Cylinder Diesel Multi Cylinder	Diesel Engine Single Cylinder
Even Torque Machines: Smooth Loads, Generators, Centrifugal Pumps, Blowers, Small Fans, Line Shafting.	1.00	1.25	1.50	2.00	2.50
Machine Tools (light), Beaters, Exhausters, Wood-working Machines (light), Alternators, Welding Generators, Textile Machines.	1.25	1.50	1.75	2.25	2.75
Multi-Crank Compressors and Pumps, Generators (fluctuating loads), Rotary Dryers & Screens, Rotary Compressors, Planers, Wood-working Machines (heavy), Pulp Grinders, Shakers, Mine Fans.	1.50	1.75	2.00	2.75	3.00
Wire Mills, Cement Mills, Small Printing Presses.	1.75	2.00	2.25	3.00	3.25
Single Crank Compressors & Pumps, Hammers, Ball & Tube Mills, Rolling Mills (light), Shearing Machines, Punches, Rock & Stone Crushers, Brick Making and similar Machines, Printing Presses (large), Grinders, Pulverisors, Cranes & Winches, Mechanical Shovels & Dredges, Winding Gears and Drums.	2.00	2.25	2.50	3.25	3.50
Heavy Rolling Mill Drives, Continuous, Prolonged & Reversing Drives, Severe Traction and Haulage Loads.	2.25	2.50	2.75	3.50	3.75



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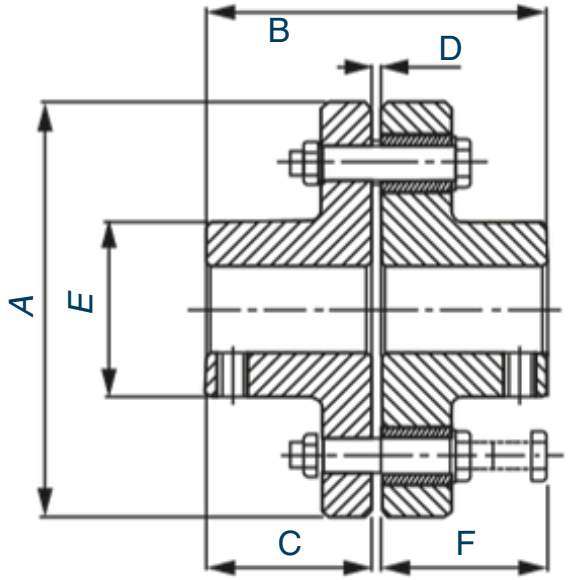

Coupling Size	Torque Nm	Max. Speed (RPM)	Bore Dia MIN	Bore Dia MAX	QTY N	A	B	C	D	E	F
TDTBC 1	77	6100	12.7	30	3	96	79	38	3	44	58
TDTBC 2	310	5100	12.7	35	4	115	99	48	3	51	70
TDTBC 2A	516	4400	16.0	45	6	131	105	51	3	67	70
TDTBC 3	621	3600	16.0	50	4	161	107	51	5	75	114
TDTBC 4	831	3000	20.0	70	4	192	125	60	5	105	114
TDTBC 4A	1241	3000	20.0	70	6	192	125	60	5	105	114
TDTBC 5	1662	2600	25.0	80	6	226	157	76	5	115	114
TDTBC 6	2359	2300	45.0	100	8	255	183	89	5	140	114
TDTBC 6A	2932	2300	45.0	100	10	255	183	89	5	140	114
TDTBC 6B	3533	2300	45.0	100	12	255	183	89	5	140	114
TDTBC 7	4154	1950	55.0	120	12	291	235	115	5	175	114
TDTBC 7A	5195	1900	55.0	125	14	301	235	115	5	185	130
TDTBC 8	5816	1850	60.0	135	16	311	255	125	5	200	130
TDTBC 8A	7268	1650	60.0	138	18	341	265	130	5	205	130
TDTBC 8B	8729	1590	65.0	142	12	361	276	135	6	212	200
TDTBC 9	9932	1470	70.0	152	13	391	316	155	6	225	200
TDTBC 9A	13274	1400	80.0	162	15	411	336	165	6	240	200
TDTBC 10	14420	1300	90.0	175	16	441	366	180	6	255	200
TDTBC 10A	18050	1200	100.0	185	17	481	386	190	6	270	212
TDTBC 11	23780	1080	110.0	195	20	531	406	200	6	285	212

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Power Ratings in (kW)

Speed Rev/Min	TDTBC Series - Coupling Sizes																			
	1	2	2A	3	4	4A	5	6	6A	6B	7	7A	8	8A	8B	9	9A	10	10A	11
100	0.8	3.2	5.4	6.5	8.7	13.0	17.4	24.7	30.7	37.0	43.0	54.4	60.9	76.1	91.4	104	139	151	189	240
200	1.6	6.5	10.8	13.0	17.4	26.0	34.8	49.4	61.4	74.0	87.0	108.8	121.8	152.2	182.8	208	278	302	378	498
300	2.4	9.7	16.2	19.5	26.1	39.0	52.2	74.1	92.1	111.0	130.5	163.2	182.7	228.3	274.2	312	417	453	567	747
400	3.2	13.0	21.6	26.0	34.8	52.0	69.6	98.8	122.8	148.0	174.0	217.6	243.6	304.4	365.6	416	556	604	756	996
500	4.0	16.2	27.0	32.5	43.5	65.0	87.0	123.5	153.5	185.0	217.5	272.0	304.5	380.5	457.0	520	695	755	945	1245
600	4.9	19.5	32.4	39.0	52.2	78.0	104.2	148.2	184.2	222.0	261.0	326.4	365.4	456.6	548.4	624	834	906	1134	1494
700	5.7	22.7	37.8	45.5	60.9	91.0	121.8	172.9	214.9	259.0	304.5	380.3	426.3	532.7	639.8	728	973	1057	1323	1743
720	5.8	23.4	38.9	46.8	62.6	93.6	125.3	177.8	221.0	266.4	313.2	391.7	438.5	547.9	658.0	749	1001	1087	1361	1793
800	6.5	26.0	43.2	52.0	69.6	104.0	139.2	197.6	245.6	296.0	348.0	435.2	487.2	608.8	731.2	832	1112	1208	1512	1992
900	7.3	29.2	48.6	58.5	78.3	117.0	156.6	223.3	276.0	333.0	391.5	489.6	548.1	684.9	822.6	936	1251	1359	1701	2241
960	7.8	31.2	51.8	62.4	83.5	124.8	167.0	237.1	294.7	355.2	417.6	522.2	584.6	730.6	877.4	998	1334	1450	1814	2390
1000	8.1	32.5	54.0	65.0	87.0	130.0	174.0	247.0	307.0	370.0	435.0	544.0	609.0	761.0	914.0	1040	1390	1510	1890	2490
1200	9.7	39.0	64.8	78.0	104.4	156.0	208.8	296.4	368.4	444.0	522.0	652.8	730.8	913.2	1097.0	1248	1668	1812	2268	
1400	11.3	45.5	75.6	91.0	121.8	182.0	243.6	345.8	429.8	518.0	609.0	761.6	852.6	1065.0	1280.0					
1440	11.7	46.8	77.8	93.6	125.3	187.0	250.6	355.7	442.0	532.8	626.4	783.4	877.0	1096.0	1316.0					
1600	13.0	52.0	86.4	104.0	139.2	208.0	278.4	395.2	491.0	592.0	696.0	870.4	974.4	1218.0	1462.0					
1800	14.6	58.5	97.2	117.0	156.6	234.0	313.2	444.6	552.6	666.0	783.0	979.2								
2000	16.2	65.0	108.0	130.0	174.0	260.0	348.0	494.0	614.0	740.0										
2200	17.8	71.5	118.8	143.0	191.4	286.0	382.8	543.4	675.4	814.0										
2400	19.4	78.0	129.6	156.0	208.8	312.0	417.6													
2600	21.1	84.5	140.4	169.0	226.2	338.0	452.4													
2800	22.7	91.0	151.0	182.0	243.6	364.0														
2880	23.3	93.6	155.5	187.2	250.6	374.4														
3000	24.3	97.5	162.0	195.0	261.0	390.0														
3500	28.3	113.7	189.0	260.0																
4000	32.4	130.0	216.0																	
4500	36.4	146.2																		

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