

Pin Bush Couplings

Power Transmission Group



Continental Pin Bush Couplings

Features :

These couplings transmit high torques through high tensile steel Pins using fabric reinforced Rubber Bushes to provide flexibility to these couplings to take up some amount of misalignment while absorbing shock loads & torsional vibrations.

Pin Bush Couplings are compact, easy to assemble and do not require any maintenance or lubrication. The Flanges are machined from close grained Cast Iron conforming to Grade FG 200 of IS 210 and are generally available with a pilot bore to permit machining on site though they can also be supplied with finished bore and key way as per customers' requirement. Pins are made from EN 8 steel. Flexible Rubber Bushes made from Nitrile Rubber are unaffected by moisture, grease and oils including non-aromatic and non-ketone solvents and can withstand temperatures from -40°C to $+110^{\circ}\text{C}$.

The standard range covers 20 sizes with power ratings up to 250 kW at 100 rev/min and bores up to 190mm. Sizes above CTB - 11 and in cast steel for special applications involving peripheral speeds above 30 m/sec can also be supplied on demand.

Coupling Selection :

Details required for coupling selection:

- ▶ Type of Driving and Driven Equipment.
- ▶ Power & Speed of Prime Mover (Electric Motor etc.)
- ▶ Speed & Power absorbed by Driven Equipment if available. If not, Motor Power to be used for selection.
- ▶ Diameter of Shafts to be coupled.

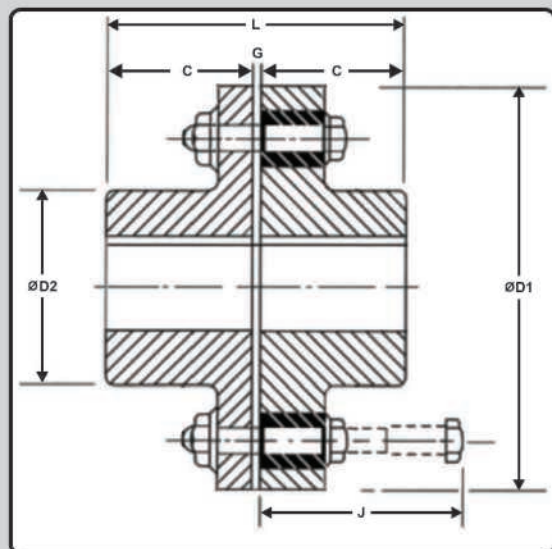
Procedure :

- ▶ Service Factor : Select the required Service Factor from the table below.
- ▶ Design Power : Multiply the absorbed power of driven equipment (if available) or Motor Power with Service Factor to get Design Power to be used as a basis for selection of coupling.
- ▶ Coupling Size : After interpolating to arrive at Design power at 100 rev/min, refer to the Power Rating Table, read under the kW at 100 rev/min column till a power exceeding the design power is found. Read to the left and the coupling size required is given in the first column of the table.
- ▶ Bore Size : From the Dimension Table, check if the coupling size selected can accommodate the given Shaft sizes. If not, select the next higher size of coupling.

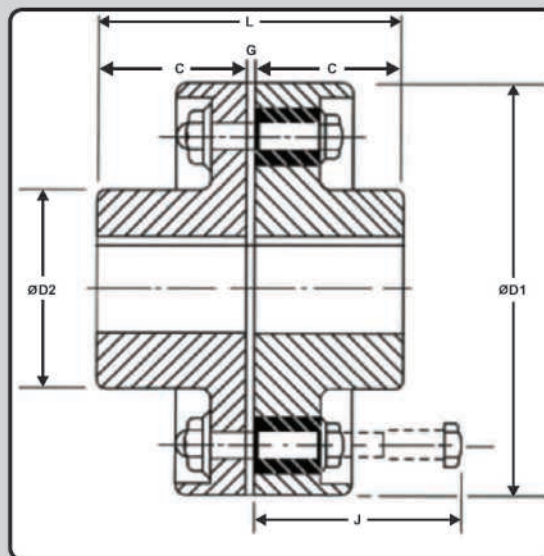
SERVICE FACTORS

Driven Equipment	Prime Mover (Driving Equipment)				
	Electric Motor Steam Turbine	Steam Engine Water Turbine	IC Engines (Multi- Cylinder)	IC Engine (Single Cylinder) Diesel Engine (Multi Cylinder)	Diesel Engine (Single Cylinder)
Generators, Centrifugal Pumps, Blowers, Line Shafts, Small Fans, Machines with uniform load	1.00	1.25	1.50	2.00	2.50
Welding Generators, Alternators, Textile machinery, Light Machine Tools, Exhausters, Beaters	1.25	1.50	1.75	2.25	2.75
Varying Load Generators, Rotary Compressors, Dryers & Screens, Multi Crank Compressors & Pumps, Pulp Grinders, Shakers, Mining Fans	1.50	1.75	2.00	2.75	3.00
Cement Mills, Wire Rod Mills, Printing Presses (Small)	1.75	2.00	2.25	3.00	3.25
Ball Mills, Tube Mills, Light Rolling Mills, Shearing & Punching Machines, Rock & Stone Crushers, Brick Making Machines, Printing Presses (Large), Hammer Mills, Grinders, Pulverisers, Single Crank Compressors & Pumps, Cranes & Winches, Shovels & Dredges	2.00	2.25	2.50	3.25	3.50
Heavy Rolling Mill Drives, Severe Traction & Haulage Loads, Continuous Prolonged & Reversing Drives	2.25	2.50	2.75	3.50	3.75

CTB - 1 to CTB - 6B



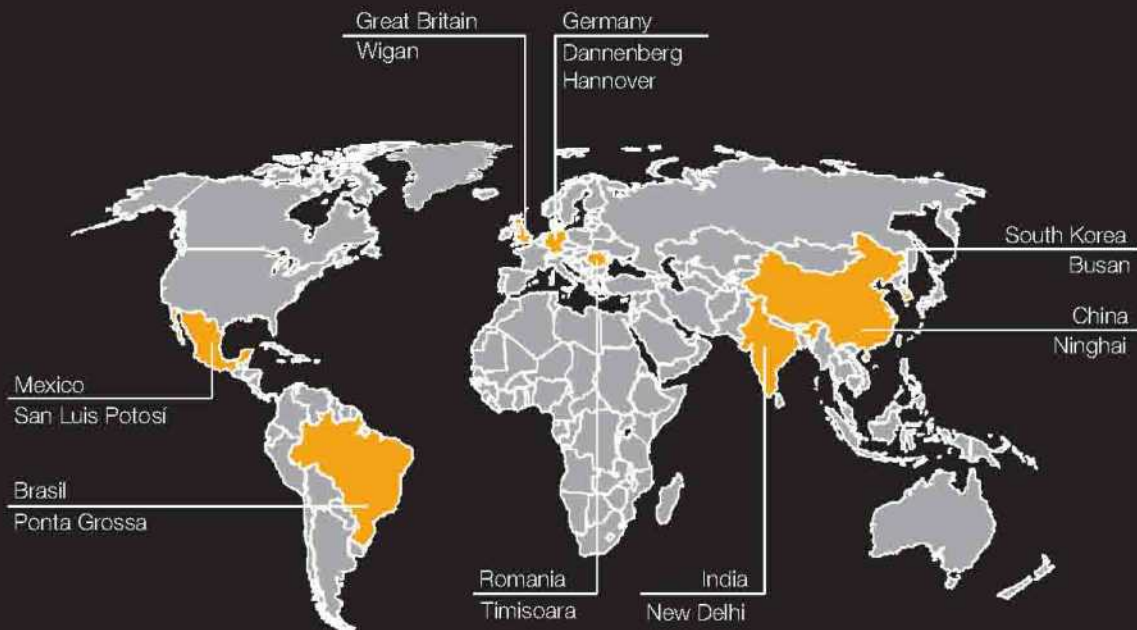
CTB - 7 to CTB - 11



POWER RATINGS & DIMENSIONS

Size	kW Rating at		Bore (mm)		Max. Speed (Rev/min.)	No. of Pins	Dimensions (mm)					
	100 Rev/Min	1440 Rev/Min	Min.	Max.			L	D1	D2	C	G	J
CTB - 1	0.8	11.5	12.7	30	6100	3	79	95	44	38	3	58
CTB - 2	3.3	47	12.7	35	5100	4	99	114	51	48	3	70
CTB - 2A	5.4	77.8	16	45	4400	6	105	130	67	51	3	70
CTB - 3	6.5	93.6	16	50	3600	4	107	160	75	51	5	114
CTB - 4	8.7	125.3	20	70	3000	4	125	191	105	60	5	114
CTB - 4A	13	187.2	20	70	3000	6	125	191	105	60	5	114
CTB - 5	17.5	252	25	80	2600	6	157	225	115	76	5	114
CTB - 6	24.7	355.7	45	100	2300	8	183	254	140	89	5	114
CTB - 6A	30.7	442	45	100	2300	10	183	254	140	89	5	114
CTB - 6B	37	532.8	45	100	2300	12	183	254	140	89	5	114
CTB - 7	43.5	626.4	60	115	1950	12	235	290	170	115	5	114
CTB - 7A	54.5	784.8	60	120	1900	14	235	300	180	115	5	130
CTB - 8	61	878	65	130	1850	16	255	310	195	125	5	130
CTB - 8A	76	1095	65	135	1650	18	265	340	200	130	5	130
CTB - 8B	91.5	1317	70	140	1590	12	276	360	210	135	6	200
CTB - 9	104		80	150	1470	13	316	390	225	155	6	200
CTB - 9A	140		90	160	1400	15	336	410	240	165	6	200
CTB - 10	150		100	170	1300	16	366	440	255	180	6	200
CTB - 10A	190		110	180	1200	17	386	480	270	190	6	212
CTB - 11	250		120	190	1080	20	406	530	285	200	6	212

Power Transmission Group - Production Plants Worldwide



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