

JAC-Flex

Elastomeric Coupling



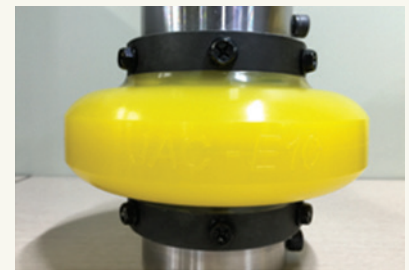
Jac JAC coupling

JAC Coupling supplies various types of elastomeric coupling such as Tire coupling, Rubber coupling and JAC-Flex coupling.

JAC-Flex coupling guarantees easy installation, high flexibility and long service life.

Characteristics of JAC-Flex Coupling

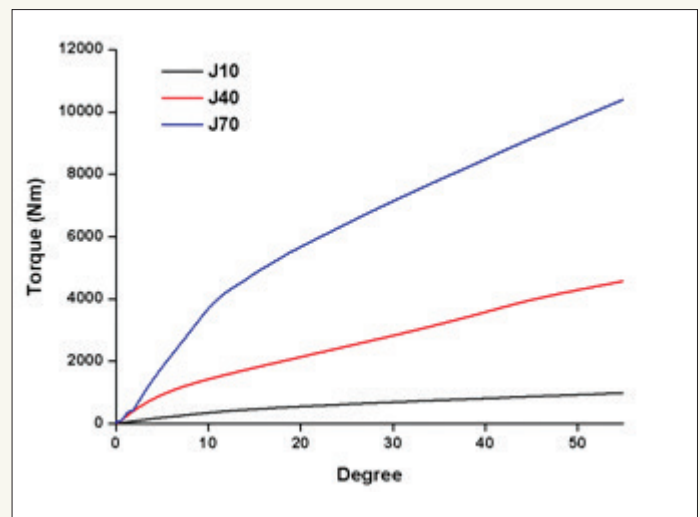
- 1) Rapid and easy assembly/disassembly. Element consists of two halves split longitudinally.
- 2) Protects equipment. Super flexible urethane element is capable of up to 4° angular and 4.7mm parallel misalignment
- 3) Longer system life. Lower weight and inertia. Less transmission of vibration Longer Life for motor and pump bearings.
- 4) Compact. Connected equipment can be moved closer. No need to provide space to back out coupling bolts.
- 5) Safe. Non-sparking, Reduces risk of fire."
- 6) No lubrication.



Characteristics of JAC-Flex Coupling

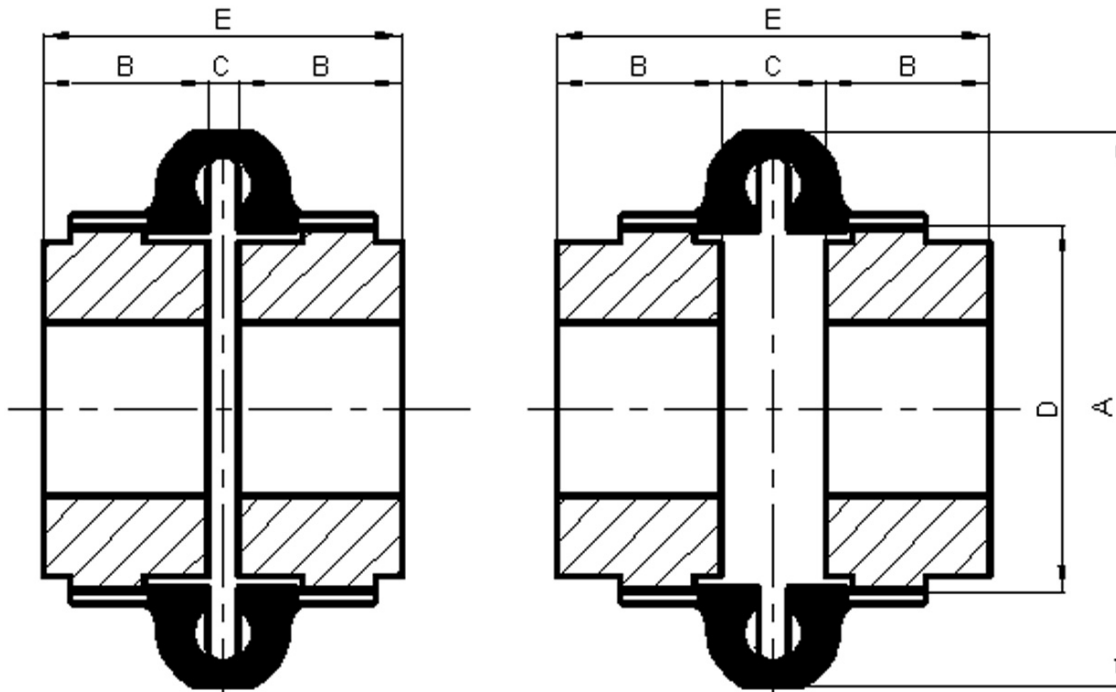


5 times Continuous Torque test guarantee the flexibility of coupling



Design Characteristics are validated with torsional test : Torsional Stiffness, Axial Stiffness, Radial Stiffness

JAC Urethan Couplings Demensions in metric(With Hub)



Inbord Hubs

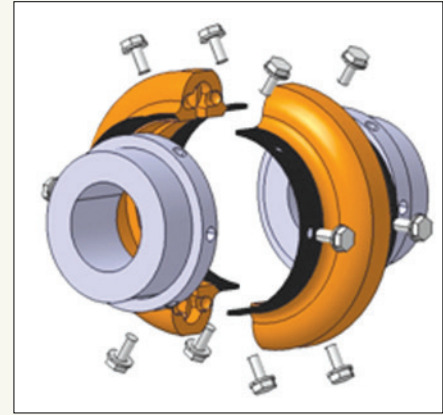
Outbord Hubs

Size	Demesion(mm)							Weight (kg)	Max. Bore (mm)	Max. RPM	Continuous Torque (kgf cm)	Hp per 100RPM
	A	B	C		D	E						
	Out Dia.	Hub Length	Minimum Spacing	Maximum Spacing	Hub Dia.	In Total Length	Out Total Length					
J2	89	24	34	48	47	89	96	0,5	28	7,500	218	0,30
J3	102	38	21	33	59	97	110	1,1	34	7,500	421	0,59
J4	116	43	11	33	66	97	119	1,4	42	7,500	639	0,89
J5	137	45	21	46	80	110	135	2,4	48	7,500	1,080	1,51
J10	162	48	14	47	93	110	141	3,7	55	7,500	1,070	2,33
J20	184	52	13	61	114	117	165	5,9	60	6,600	2,670	3,73
J30	210	59	14	62	138	132	179	9,5	75	5,800	4,210	5,88
J40	241	64	14	68	168	141	195	15,9	85	5,000	6,340	8,85
J50	279	70	16	86	207	156	225	24,5	90	4,200	8,820	12
J60	318	83	18	87	222	187	253	32,7	105	3,800	14,400	20
J70	356	82	19	95	235	203	279	39	120	3,600	25,500	36

Composition of JAC-Flex Coupling

JAC Flex coupling is composed of 2 split-in-half elastic element and self-locking bolts.

It is easy to replace elastic element without disassembly of hubs or connecting elements

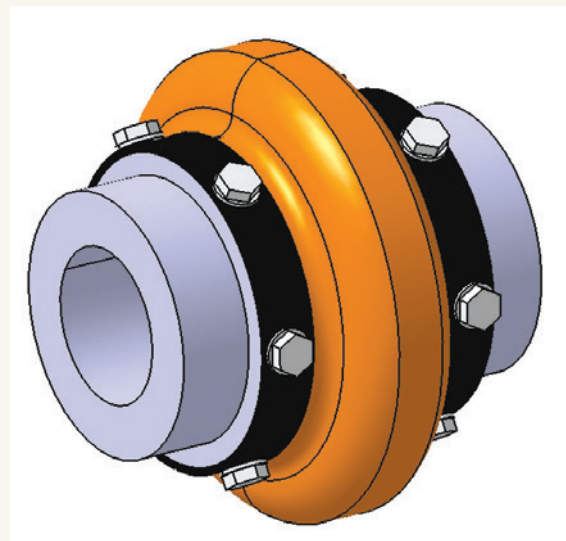


Installation

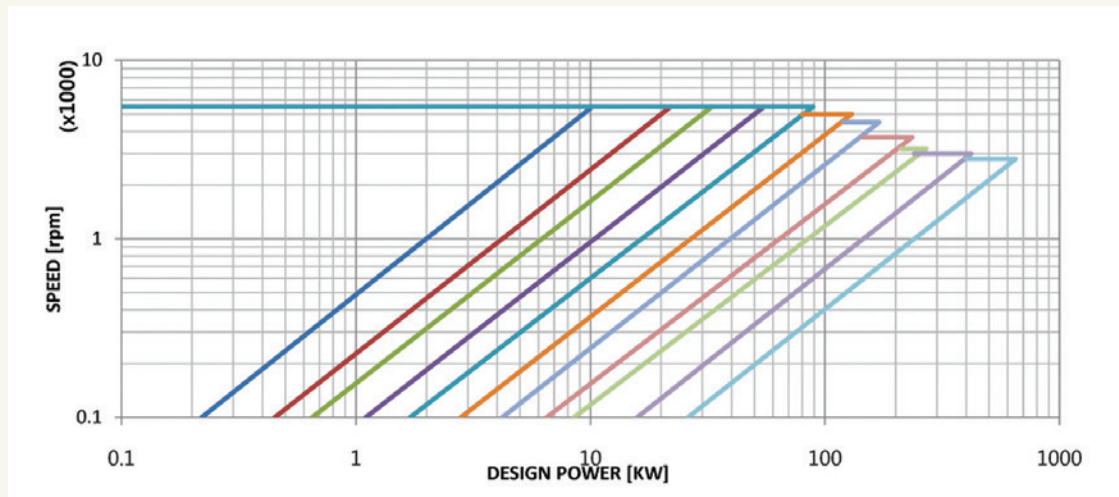
	<p>Mount hubs on shafts.</p>
	<p>Place one elastic element on hub and position bolts on hub and elastic element.</p>
	<p>Place another elastic element on hub. Tighten the bolts with assigned torque.</p>

Tightening Torque of bolts

Size	Bolts Size	Tightening Torque (Nm)
J2	M6	9
J3	M6	9
J4	M6	9
J5	M6	9
J10	M6	9
J20	M10	42
J30	M10	42
J40	M10	42
J50	M10	42
J60	M12	72
J70	M12	72

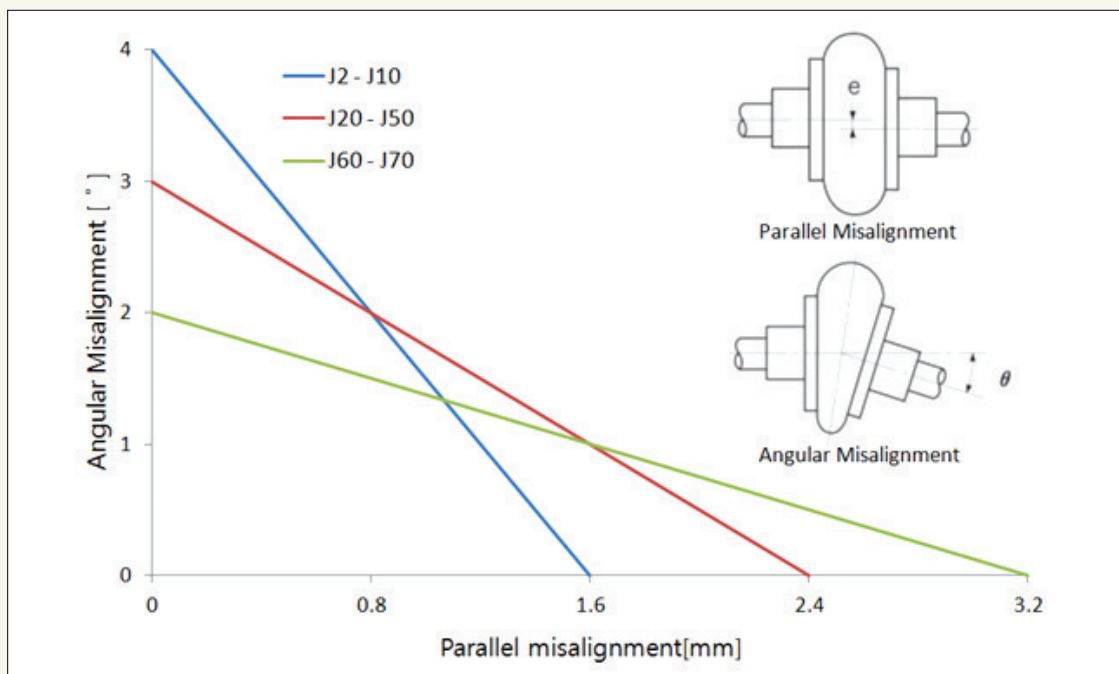


Selection of Coupling Size



- 1) Determine service factor considering driver and driven equipment referring to load classification and Safety Factor Table.
- 2) Multiply service factor to normal operating power. This will provide a Design Power for the purpose of coupling selection
- 3) Use the power and the operating speed to select the coupling size from the upper chart.
- 4) Or multiply operating torque by service factor and select a coupling from the torque capacity chart
- 5) After selection as mentioned above, we confirm the satisfying size as compared with the maximum bore diameter.

Misalignment Guideline of JAC-Flex Coupling



Maximum of Each misalignment cannot be experienced by the coupling simultaneously. each misalignment shall be below the line.



Jac coupling

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