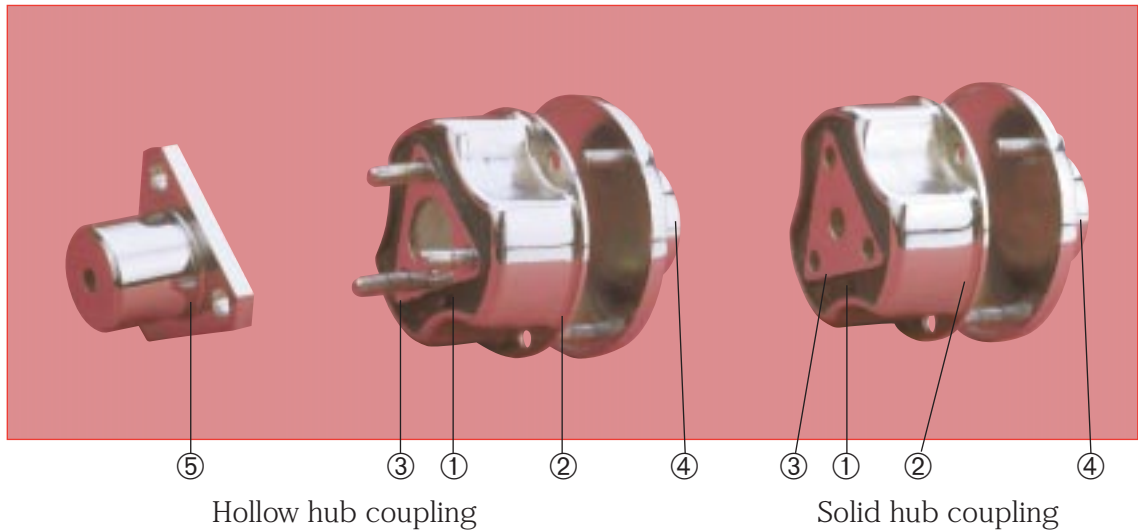


CARDAFLEX

* *	Torsional flexibility	*	Radial flexibility	* *	Axial flexibility	* *	Conical flexibility
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DESCRIPTION

There are two variations of the CARDAFLEX coupling :
hollow hub and solid hub :

- Flexible element :
 - ① Formed of solid natural rubber.
 - ② External steel surround, bonded to the rubber.
 - ③ Triangular hub : a hollow hub bonded to the rubber and attached to the flange ⑤, or a solid hub which accommodates a grooved or keyed shaft.
- Steel flanges :
 - ④ round.
 - ⑤ triangular.

OPERATION

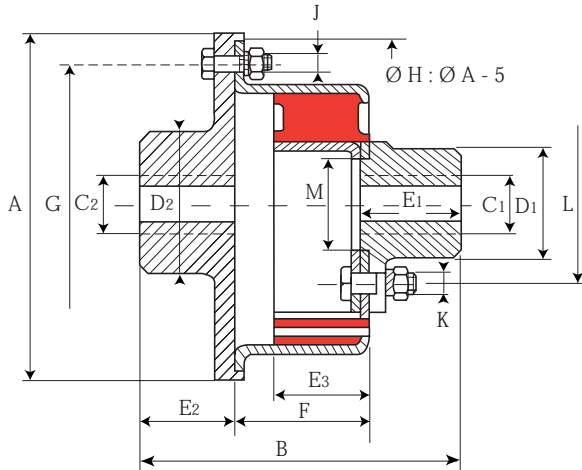
The CARDAFLEX coupling is designed with the following features :

- Safe in use.
- Fairly low conical stiffness.
- Compact shape
- Good performance at high speeds.

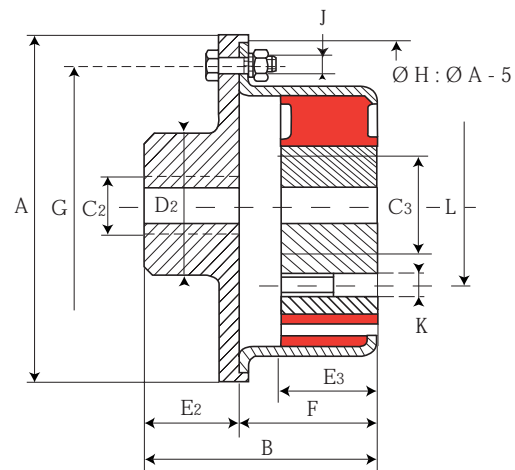
Advantages :

- Especially in the case of the CARDAFLEX solid hub coupling, the space occupied by the unit is much reduced.
- The outer surround of the flexible element can be centred directly on-to the flywheel of one of the machines to be coupled.

DIMENSIONS



Hollow hub coupling



Solid hub coupling

HOLLOW HUB

Nominal torque N.m	Max torque N.m	Max speed rpm	Hole size C ₁ mm		Hole size C ₂ mm		A mm	B mm	D ₁ mm	D ₂ mm	E ₁ mm	E ₂ mm	Reference	E ₃ mm	F mm	G mm	J mm	K mm	L mm	M mm	Weight kg
			min	max	min	max															
30	60	7000	7	16	7	24	85	88	26	40	31	28	622308	26	32	68	6	7	42	34	0.9
50	100	6500	7	19	7	28	105	100	34	45	33	30	622310	28	40	86	6	8	52	30	1.6
80	160	6000	9	20	9	30	120	125	32	50	44	40	622311	35	45	100	6	8	52	30	2.3
120	240	5500	9	25	9	36	130	140	40	55	49	45	622312	35	50	108	8	10	64	36	2.8
160	320	5500	9	32	9	42	155	155	49	60	55	50	622315	43	55	130	10	12	76	42	4.5
520	1040	4500	11	42	11	56	205	203	67	80	71	65	622320	57	73	175	12	16	100	56	10.7
900	1800	4000	12	55	12	70	255	250	86	100	85	80	622325	72	90	225	12	20	127	70	22

1 Nm ≠ 0.1 mkg

See current price list for availability of items.

SOLID HUB

Nominal torque N.m	Max torque N.m	Max speed rpm	Hole size C ₂ mm		Hole size C ₃ mm		A mm	B mm	D ₂ mm	E ₂ mm	E ₃ mm	Reference	F mm	G mm	J mm	K mm	L mm	Weight kg
			min	max	min	max												
30	60	7000	7	24	10	21	85	60	40	28	26	622401	32	68	6	7	42	0.4
50	100	6500	7	28	16	28	105	70	45	30	28	622402	40	86	6	8	52	0.7
80	160	6000	9	30	17	28	120	85	50	40	35	622403	45	100	6	8	52	1
120	240	5500	9	36	18	36	130	95	55	45	35	622404	50	108	8	10	64	1.2
160	320	5500	9	42	22	42	155	105	60	50	43	622405	55	130	10	12	76	2.3
520	1040	4500	11	56	30	56	205	138	80	65	57	622406	73	175	12	16	100	5
900	1800	4000	12	70	40	72	255	170	100	80	72	622407	90	225	12	20	127	9.5

1 Nm ≠ 0.1 mkg

See current price list for availability of items.

The maximum torque is considered to be an infrequent start-up torque and is not periodic.

PARTS LIST

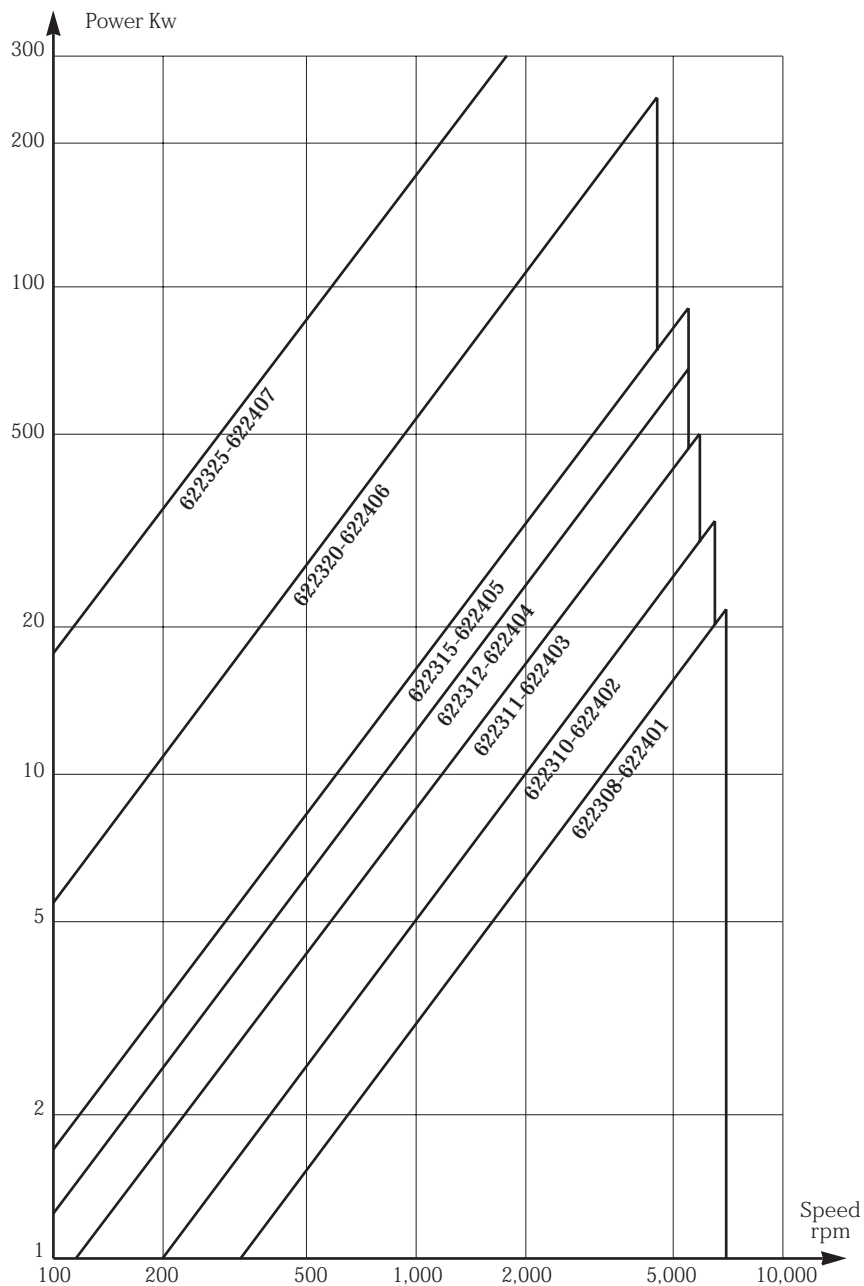
Coupling reference	Flexible element reference	Qty	Round flange reference	Qty	Triangular flange reference	Qty
622308	622208	1	321621	1	321626	1
622310	622210	1	321631	1	321636	1
622311	622211	1	321641	1	321646	1
622312	622212	1	321651	1	321656	1
622315	622215	1	321661	1	321666	1
622320	622220	1	321671	1	321676	1
622325	622225	1	321681	1	321686	1

Coupling reference	Flexible element reference	Qty	Round flange reference	Qty
622401	622108	1	321621	1
622402	622110	1	321631	1
622403	622111	1	321641	1
622404	622112	1	321651	1
622405	622115	1	321661	1
622406	622120	1	321671	1
622407	622125	1	321681	1



OPERATING LIMITS

POWER RANGE



OPERATING CHARACTERISTICS

Nominal torque N.m	Vibrat. coupling N.m	Torsion under NT degrees	STIFFNESS			
			AXIAL daN/mm	RADIAL daN/mm	TORSIONAL m.KN/rad.	CONICAL m.KN/rad.
30	15	6	30	100	0.286	0.114
50	25	7	16	65	0.400	0.114
80	40	5	30	90	0.860	0.23
120	60	8	25	80	0.860	0.23
160	80	5	32	90	1.72	0.46
520	260	7	40	150	4	1.14

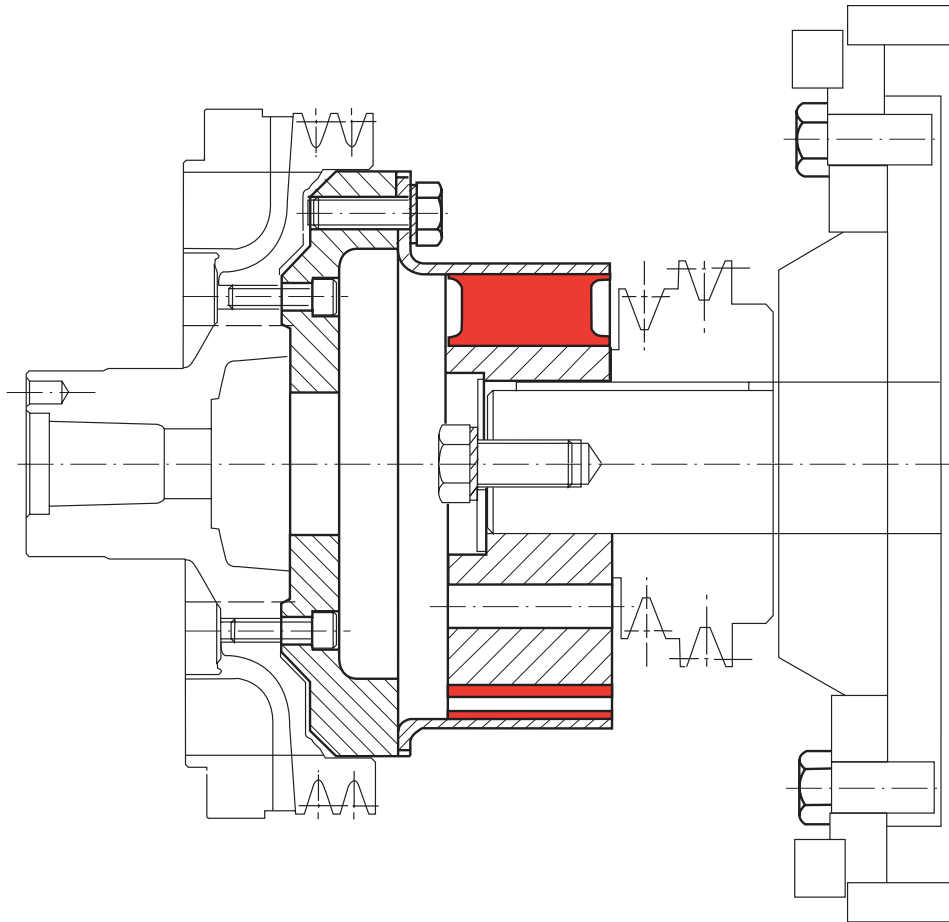
1 Nm \neq 0.1 mkg



ASSEMBLY

Method :

- Mount the round flange onto the shaft of one machine.
- Mount :
 - The triangular flange onto the other shaft (hollow hub coupling).
 - The flexible element onto the other shaft (solid hub coupling).
- Attach the flexible element to the round flange.



**Example : internal combustion engine/hydraulic pump coupling :
mounted on keyed shaft and on pulley.**