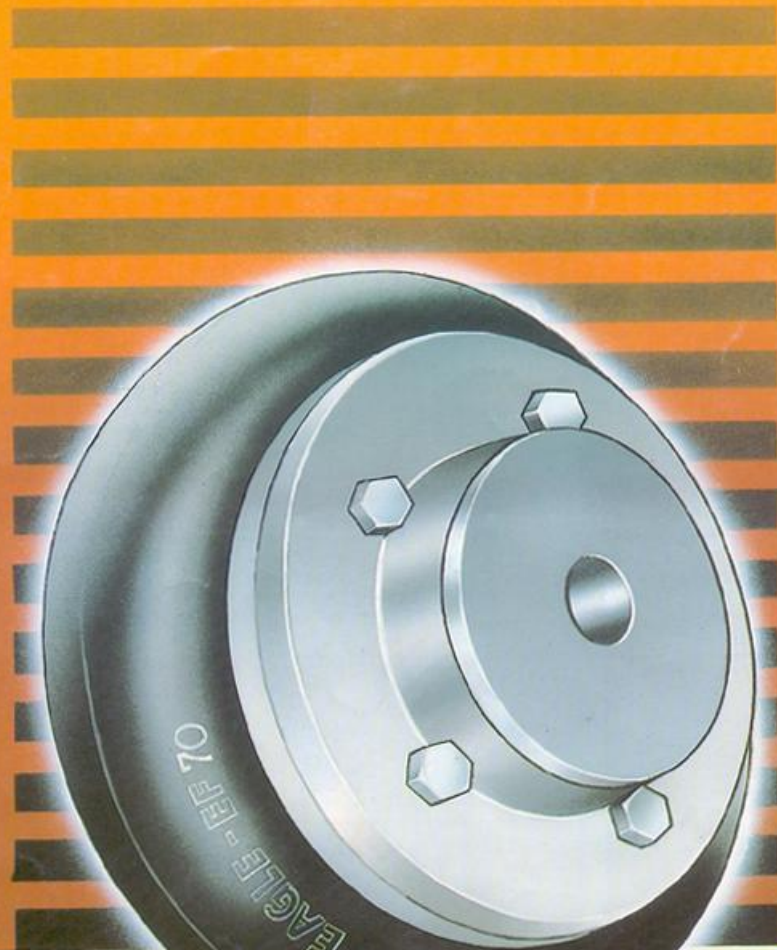




EAGLE

COUPLINGS



EAGLE Couplings

The heart of the Eagle Coupling is the resilient tyre which is the result of Eagle Technology.

The specially designed reinforcement of the tyre ensures higher life, lower downtime, hence improved productivity.

Eagle Couplings can absorb :

- Parallel misalignment up to 4 mm
- Angular misalignment up to 4°
- End Float up to 5 mm

Eagle is different. It embodies all the desirable features of an ideal flexible coupling.

DAMPING

Reduces vibrations and torsional oscillations.

ENVIRONMENT

Use of natural or neoprene rubber compounds make Eagle couplings suitable for use in most conditions.

MAINTENANCE

No dismantling needed for inspection of components.

SHAFT SEPARATION

Quickly and easily accomplished.

TORSIONALLY SOFT

Absorbs shock forces.

INSTALLATION

Requires no special tools.

FREE OF BACK-LASH

Does not create 'snatch' on take-up of the drive

NO RELATIVE MOVING PARTS

Eliminates the need for lubrication

MISALIGNMENT

Handles combinations of parallel, angular and axial misalignments.

EAGLE SELECTION

Details required for coupling selection are :

- (1) Type of driven machine and operating hours per day.
- (2) Speed and power absorbed by driven machine (if absorbed power is not known, calculate on power rating of prime mover).
- (3) Diameter of shafts to be connected.

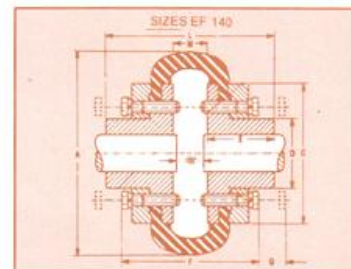
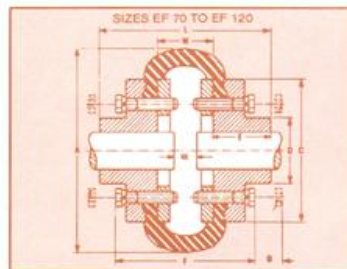
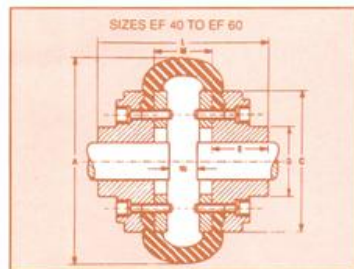
SIZE	Power per 100 rev/min/KW	Max. Speed rev/min	Bore		A mm	L mm	D mm	E mm	C mm	G± mm	M+ mm	F mm	Approx. Wts* (Kgs)
			Min mm	Max mm									
EF-40	0.22	4500	13	30	104	66	---	22	82	43	22	-	1.6
EF-45	0.39	4500	13	32	120	74	---	25	94	43	24	-	2.0
EF-50	0.56	4500	18	38	133	89	79	32	100	43	25	-	2.4
EF-60	1.11	4000	18	48	165	109	73	38	125	43	33	-	4.0
EF-70	1.70	3600	20	55	197	130	82	45	144	10	40	101	6.2
EF-80	2.65	3100	26	65	211	145	95	51	167	10	43	106	9.6
EF-85	3.20	3000	32	70	222	150	103	53	179	13	44	107	11.5
EF-90	3.82	2880	32	76	235	160	110	57	188	13	46	119	14.0
EF-100	5.29	2600	32	85	254	168	124	60	216	13	48	123	20.0
EF-110	7.46	2300	32	90	279	174	134	65	233	14	44	127	26.0
EF-120	12.40	2050	39	102	314	201	152	76	264	14	49	140	32.0
EF-140	19.70	1800	76	120	359	211	195	89	311	14	24	152	54.0
EF-160	32.6	1600	75	140	402	234	216	102	345	19	30	156	82.0
EF-180	57.4	1500	75	175	470	274	266	114	398	19	46	188	126.0

* Weights given are for mid-range bore complete coupling.

± G is the amount by which clamping screws need to be withdrawn for release tyre.

+ M is the distance between flanges.

* Shaft ends although normally located M apart can project beyond the flanges as shown. In this event, allow sufficient space between shaft ends for the end float and misalignments. Eagle couplings upto size E-180 with quick fitting Taper Lock system also available Consult Eagle



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EAGLE

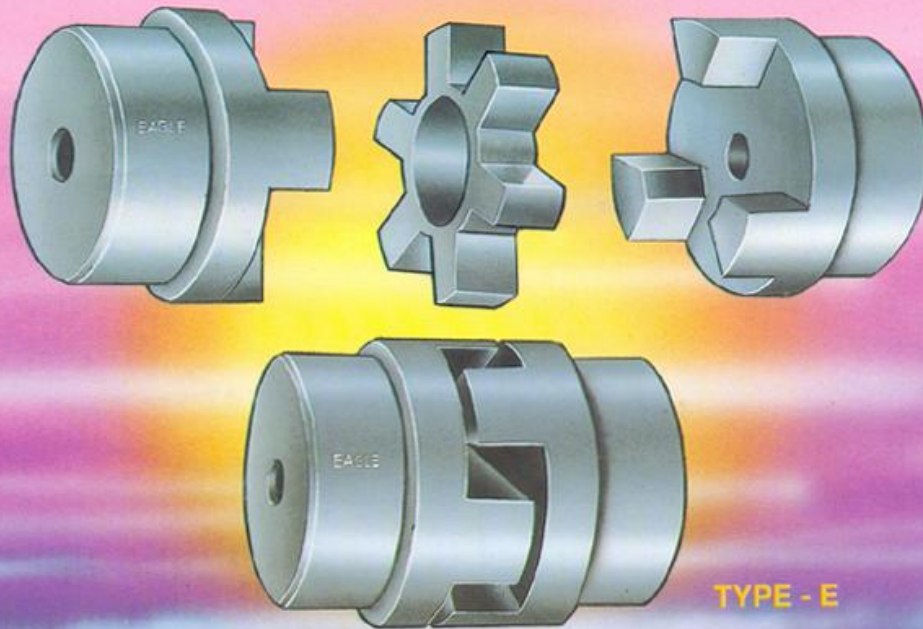
COUPLINGS

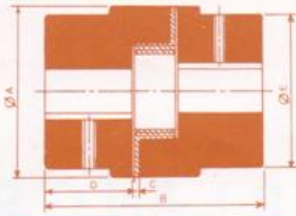
SPECIAL FEATURES :

Power transmission members are combined in one-piece construction spider. Every other spider arm is an idler and can be advanced to the load carrier jaws. It functions as a spare spider in every coupling. Special cushioning materials with a hardness to meet exact applications are available.

APPLICATIONS :

For pumps in chemical industry, ideal for reciprocating pumps, diesel or gas engines; multiple generator sets and other such drives.





EAGLE STAR COUPLINGS

MISALIGNMENT CAPABILITY

MAX. ANGULAR OFFSET 1°



MAX. PARALLEL OFFSET 15 mils or 0.4 mm



DIMENSIONAL DATA

DIMENSIONS IN MM

Coupling Size	Material	Bore		Outside Diameter	Overall Length	Gap between Jaw & Body	Length Thru' Bore	Hub Diameter	Approx Weight in kgs	
		Pilot	Max.						PB	Max.
E-050	CI	5	16	27	42	1	15	27	0.13	0.11
E-070	AL	9	20	36	51	2	19	36	0.28	0.25
E-070	AL	9	20	36	51	2	19	36	0.13	0.11
E-075	CI	9	22	44.5	55	2	21	39	0.16	0.15
E-075	AL	9	22	44.5	55	2	21	39	0.32	0.28
E-095	CI	9	28	54	63	2	25	49	0.29	0.26
E-095	AL	10	28	54	63	2	25	49	0.8	0.7
E-099	CI	12	30	65	72	2	27	51	0.4	0.38
E-099	AL	10	30	65	72	2	27	51	0.9	0.8
E-100	CI	16	38	65	88	2	35	57	0.63	0.56
E-100	CI	10	38	65	88	2	35	57	1.5	1.3
E-110	CI	15	42	85	108	3	43	76	3.2	2.9
E-150	CI	15	48	96	115	3	45	80	4.0	3.6
E-190	CI	20	55	115	133	3	54	102	7.2	6.7
E-225	CI	20	60	127	153	3	64	108	10.0	9.3
E-226	CI	25	65	137	178	3	70	115	13	12
E-276	CI	25	75	157	200	3	80	127	19	17
E-280	CI	30	75	192	200	3	80	140	26	24
E-295	CI	40	90	237	238	3	95	160	44	41
E-295.5	CI	50	100	237	284	3	108	180	50	47
E-300	CI	50	100	254	283	3	115	180	55	49
E-350	CI	50	115	305	309	3	128	200	85	73

Pilot bores other than specified are available on request.

RATING TABLE

Coupling Size	Rated Torque kg.-mtrs.	kW Capacity at varying speeds (rpm)				
		100	720	960	1440	2880
E-050	0.29	0.03	0.22	0.29	0.44	0.88
E-070	0.50	0.05	0.36	0.48	0.72	1.44
E-075	1.00	0.10	0.72	0.96	1.44	2.88
E-095	2.15	0.22	1.58	2.11	3.16	6.32
E-099	3.58	0.37	2.66	3.55	5.32	10.6
E-100	4.73	0.49	3.52	4.70	7.05	14.1
E-110	8.95	0.93	6.69	8.92	13.4	26.8
E-150	14.32	1.49	10.7	14.3	21.4	42.9
E-190	19.34	2.01	14.4	19.2	28.8	57.6
E-225	27.00	2.76	19.9	26.5	39.7	79.5
E-226	32.33	3.43	24.7	32.9	49.4	98.8
E-276	53.21	5.60	40.3	53.8	80.6	161
E-280	79.69	8.20	59.0	78.7	119	236
E-295	130.41	13.4	96.5	129	193	386*
E-295.5	217.35	22.4	161	215	322	644*
E-300	310.65	31.9	230	306	459	-
E-350	439.13	45.0	324	432	648	-

Rating based on Service Factor = 1

USEFUL EQUATIONS

$$\bullet \text{ HP} = \frac{\text{RPM} \times \text{Torque (kgm)}}{716}$$

$$\bullet \text{ Torque} = \frac{\text{H.P.} \times 716}{\text{RPM}}$$

Multiply	By	To obtain
Kg. mtrs.	9.81	N. mtrs.
Foot - lbs	0.1383	kg. mtrs.
Foot - lbs	13.83	kg. cms.
Horse power	0.746	Kilowatts
Kilowatts	1.34	Horsepower

* Couplings to be dynamically balanced for these speeds.

In view of our constant endeavour to improve the quality of our products, we reserve the right to alter or change specifications without prior notice.



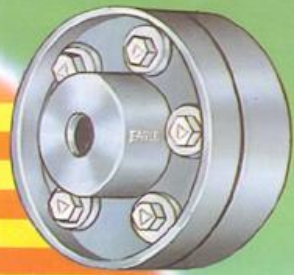
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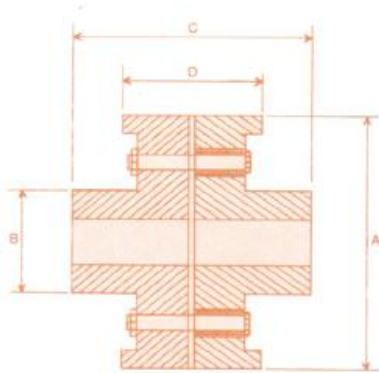


EAGLE

PRODUCTS



EAGLE BUSH TYPE FLEXIBLE COUPLINGS



The Eagle Bush Type Flexible Coupling is of the cushioned drive type, transmitting the torque, through high tensile-steel bolts to the machine input shaft. Highly developed rubber compounds are used in bushes to absorb shock loads, torsional vibrations and slight misalignments.

Simple and compact in construction, the Eagle Coupling is capable of transmitting high torques at maximum speeds. This type of coupling permits drive in either direction and requires neither lubrication nor adjustment after fitting. The flexible bushes remain unaffected by water, dust and atmospheric conditions.

The listed couplings are standard, but special types and sizes will be considered if quantities warrant tooling.

Flanges are bored to suit requirements and are keywayed to British Standard specifications, unless otherwise stated. They can also be supplied with the listed minimum bore to permit machining on site.

DIMENSIONS

SIZE A	NO. OF PIN	MAX. BORE	BOSS DIA. B	TOTAL LENGTH C	FACE D
3"	3	18	34	76	36
3 ³ / ₄ "	4	20	40	86	45
4"	4	30	50	90	45
4 ¹ / ₄ "	4	30	50	95	50
4 ¹ / ₂ "	4	32	56	95	50
5	4	35	62	100	50
5 ¹ / ₂ "	4	40	70	100	55
6"	4	45	75	108	58
6"	6	45	75	108	58
7"	6	55	90	120	62
8"	6	60	105	150	76
8"	8	60	105	150	76
9"	8	70	120	178	82
10"	8	80	130	180	82
11"	8	85	145	200	100
12"	8	92	155	200	100
14"	10	115	190	300	145
16"	10	135	220	310	160
18"	10	150	260	325	170



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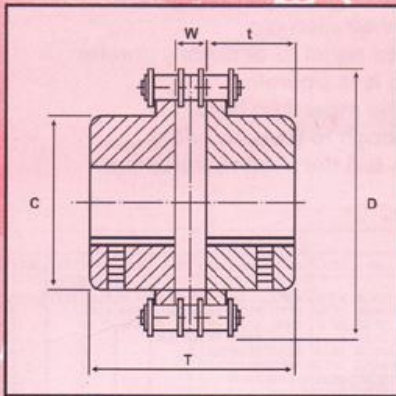
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EAGLE



ROLLER CHAIN FLEXIBLE COUPLINGS



COUPLING No.	ASA No.	BORE		T	t	W	C	D	Wt. Kg.
		MIN	MAX						
E - 6112	3812	10.00	16	65	30	5.0	27	45	0.30
E - 8312	4012	10.00	22	79	36	7.0	35	60	0.80
E - 8314	4016	12.00	32	79	36	7.0	50	77	1.60
E - 1014	5016	15.88	42	96	44	8.0	61	96	2.60
E - 1018	5018	15.88	48	98	45	8.0	71	106	3.50
E - 1216	6018	19.05	60	121	56	9.0	88	126	6.50
E - 1222	6022	19.05	76	121	56	9.0	110	150	10.0

COUPLING No.	ASA No.	BORE		T	t	W	C	D	Wt. Kg.
		MIN	MAX						
E - 1618	8018	25	80	150	67	16	115	170	14.5
E - 1622	8022	25	95	150	67	16	140	201	20.0
E - 2020	10020	40	110	200	91	18	160	231	33.5
E - 2418	12018	50	119	260	118	24	169	254	51.0
E - 2422	12022	50	150	260	118	24	208	301	76.0
E - 3218	16018	50	160	360	165	30	220	341	121.0
E - 3222	16022	50	199	360	165	30	280	410	210.0
E - 4018	20018	60	205	517	240	37	295	425	320.0
E - 4022	20022	60	260	517	240	37	373	507	470.0

SELECTION OF THE SIZE OF THE COUPLINGS

- Decide service factor for the unit for which the chain coupling is to be fitted by considering the hours of service, type of power unit etc. from the following table :-

SERVICE CLASSIFICATION	DRIVEN EQUIPMENT		SOURCE OF POWER		
	KINDS	CHARACTERISTICS	ELECTRIC MOTOR OR STEAM TURBINE	STEAM OR GASOLINE ENGINE 4 OR MORE CYL.	DIESEL OR GAS ENGINE
A	Centrifugal fans, blowers of pumps conveyor evenly loaded.	Even load - 8 hours/day service, Non-reversing-low torque starting.	1	1.5	2.0
B	Compressor, conveyor, pulsating load machines, kilns and driers, speeds reducers, Multi cylinder pumps, wood working machines, etc.	Uneven load - 8 hours/day service, Moderate shock or torsional loads, Non-reversing This is the most common type of service.	1.5	2.0	2.5
C	Presses, crushers, impact loads, Oil well pumping equipment.	Heavy shock load - 8 hours/day service, High peak torsional loads-Reversing under load. Full load starting.	2.0	2.5	3.0

For 8 to 16 hrs/ day service use next step service factor.

For 16 to 24 hours/ day service use service factor two step higher loading.

- Multiply horsepower of drive unit by the service factor. This is the design horsepower.
- Note the maximum rpm. at which the unit will run and its shaft diameter.
- From H.P. rating table select the coupling size which is rated equal to or slightly greater than design H.P. required at the rpm. at which the coupling is to operate.
- Also make sure that the diameter at the shaft is less than the maximum bore permissible on the coupling. If the coupling is not large enough to accommodate the shaft size, use the next coupling which can be bored to suit the shaft requirement.

H. P. RATINGS.

COUPLING NO.	EQUI. ISA NO.	MAX BORE	REVOLUTION PER MINUTE																							
			1	5	10	25	50	100	200	300	400	500	600	800	1000	1200	1500	1800	2000	2500	3000	3600	4000	4800	5200	6000
E - 6112	3812	16	0.013	0.066	0.146	0.346	0.693	1.053	1.613	2.106	2.520	3.013	3.440	4.253	5.173	5.880	7.133	8.333	8.973	10.82	12.58	14.66	16.00	18.86	19.73	22.26
E - 8312	4012	22	0.026	0.146	0.293	0.773	1.533	2.306	3.506	4.613	5.533	6.613	7.560	9.346	11.37	12.90	15.46	18.26	19.73	23.56	27.60	32.13	35.06	41.06		
E - 8316	4016	32	0.053	0.290	0.546	1.373	2.746	4.120	6.253	8.326	9.880	11.80	13.46	16.66	20.40	23.04	28.00	32.53	35.06	42.53	49.33	57.33	62.53	73.20		
E - 1016	5016	42	0.106	0.520	1.040	2.600	5.213	7.813	11.89	15.60	18.80	22.40	25.60	31.73	38.53	43.86	53.20	61.86	66.66	80.80	93.86	108.80				
E - 1018	5018	48	0.133	0.666	1.320	3.306	6.600	9.906	15.06	19.86	23.73	28.40	32.53	40.13	48.80	55.46	66.733	78.40	84.53	102.40	118.13					
E - 1218	6018	60	0.240	1.240	2.493	6.226	12.44	18.66	28.40	37.33	44.80	53.46	61.20	75.73	92.13	104.53	126.93	148.0	160.0	193.33						
E - 1222	6022	76	0.333	1.666	3.346	8.413	16.86	25.06	38.13	50.26	60.40	72.13	82.53	102.0	124.13	140.0	170.66	198.66	214.66	260.0						
E - 1618	8018	80	0.546	2.740	5.520	13.73	27.40	41.33	62.93	82.80	99.33	118.66	134.66	168.0	204.0	232.0	281.33	328.0	353.33							
E - 1622	8022	95	0.786	3.946	7.906	19.73	39.46	59.33	89.60	118.66	141.33	169.33	194.66	240.0	292.0	332.0	402.6	469.33	505.33							
E - 2020	10020	110	1.240	6.213	12.44	31.06	62.13	93.33	141.33	166.66	224.0	266.66	305.33	377.33	460.0	522.66	634.66	738.66								
E - 2418	12018	119	1.866	9.360	18.66	46.80	93.60	140.0	213.33	280.0	336.0	402.6	460.0	568.0	692.0	786.86	954.66									
E - 2422	12022	150	2.413	12.09	24.13	60.40	120.93	181.33	274.66	362.66	434.66	520.0	594.66	734.66	894.66	1016.0										
E - 3218	16018	160	4.040	20.13	40.40	101.06	201.33	302.66	450.0	606.66	728.0	869.33	994.66	1229.0	1496.0											
E - 3222	16022	199	5.906	29.46	59.06	146.66	294.66	444.00	674.66	886.66	1065.3	1272.0	1453.3	1800.0	2186.6											
E - 4018	20018	205	8.080	40.40	80.80	201.33	404.00	605.33	921.33	1212.0	1453.3	1733.3	1986.6	2453.3												
E - 4022	20022	260	10.17	50.93	101.73	254.66	509.33	762.66	1161.33	1520.0	1826.6	2186.6	2506.6													

LUBRICATION

Couplings operating without covers under fairly condition will give satisfactory service providing they are periodically (weekly) brushed throughly with ball bearing grease of medium consistency.





EAGLE JAW - HRC COUPLINGS

**TYPE
HRC**

TABLE 1. SERVICE FACTORS

SPECIAL CASES APPLICATIONS WITH EXCESSIVE SHOCK, VIBRATION AND TORQUE FLUCTUATIONS (COMPRESSORS, ENGINE, CENTRIFUGAL PUMPS BLOWERS, FANS, GENERATORS, CONVEYORS ETC.	TYPE OF DRIVING UNIT					
	ELECTRIC MOTORS STEAM TURBINES			INTERNAL COMBUSTION ENGINES STEAM ENGINES WATER TURBINES		
	HOURS PER DAY DUTY			HOURS PER DAY DUTY		
	CLASS OF DRIVEN MACHINE	8		8		
	UPTO	TO	OVER	UPTO	TO	OVER
UNIFORMLY DRIVEN MACHINES	1.00	1.12	1.25	1.25	1.40	1.60
MACHINES DRIVEN WITH MODERATE SHOCK	1.60	1.80	2.00	2.00	2.24	2.50
MACHINES DRIVEN WITH HEAVY SHOCK	2.50	2.80	3.12	3.12	3.55	4.00

TABLE 2. POWER RATINGS

SPEED Rev / Min	COUPLING SIZE							
	HRC 70	HRC 90	HRC 110	HRC 130	HRC 150	HRC 180	HRC 230	HRC 280
100	0.33	0.84	1.68	3.30	6.28	9.95	20.90	33.00
1500	4.95	12.55	25.15	49.5	94.00	149.00	313.50	495.00
3000	9.90	25.10	50.30	99.00	188.00	298.00		

EASY INSTALLATION

ALIGNMENT IS QUICKLY ACHIEVED BY SIMPLY PLACING A STRAIGHT EDGE ACROSS THE OUTSIDE DIAMETER OF THE HUBS. NO SPECIAL TOOLS ARE NEEDED, ONLY A HEXAGON WRENCH FOR THE LOCKING OF THE TAPER BUSH.

ACCOMODATES MISALIGNMENT

THE HRC COUPLING COMPENSATES FOR AXIAL, PARALLAL, ANGULAR MISALIGNMENT

EXTRA PROTECTION AGAINST FAILURE

THE INTER-LINKING HUBS ACT AS AN ADDITIONAL SAFEGAURD, SHOULD THE FLEXIBLE ELEMENT FAIL THE DRIVE WILL BE MAINTAINED BY THE INTERACTION OF THE JAWS WHICH ARE AN INTEGRAL PART OF THE COUPLING HUBS. THE HUBS ARE MADE OF C. I. JAWA ARE UNMACHINED.



THE HRC COUPLING IS A GENERAL PURPOSE FLEXIBLE COUPLING AVAILABLE IN EIGHT DIFFERENT SIZES IN TAPER BORE, PILOT BORE OR FINISHED BORE (BORED AND KEYED TO STANDARD MOTOR SHAFT SIZE H7 & JS9 TOLERANCE) RESPECTIVELY.



EAGLE JAW - HRC COUPLINGS

**TYPE
HRC**

TABLE 3. DIMENSIONS (mm)

SIZE	F/H HUB				B HUB				ØA	ØB	ØE	F	G	L			J	
	BUSH	BORE		C	D	BORE		C						D	L1	L2		L3
		MAX	MIN			MAX	MIN											
HRC-70	1008	25	10	18.5	23.5	32	10	21	26	69	60	31	27	18	65	66.5	68	29
HRC-90	1108	28	10	18.5	23.5	38	10	26	32	85	65	32	32.5	22.5	69.5	76	82.5	29
HRC-110	1610	42	14	18.5	26.5	55	10	37	45	112	100	45	45	29	82	100.5	119	38
HRC-130	1610	42	14	17.5	26.5	60	20	46	55	130	105	50	54	36	89	117.5	146	38
HRC-150	2012	50	14	23.0	33.5	65	20	50	60	150	115	62	61	40	107	133.5	160	42
HRC-180	2517	60	16	34.5	46.5	80	30	58	70	180	125	77	74	49	142	165.5	189	48
HRC-230	3020	75	25	39.5	52.5	100	40	77	90	225	155	99	85.5	59.5	164.5	202	239.5	55
HRC-280	3535	95	35	74.0	90.5	115	50	89	105	275	185	119	107.5	74.5	255.5	270	284.5	67

NOTES :

L1 = LENGTH WITH ASSEMBLY COMBINATIONS F. F. - H. H. F. H.

L2 = LENGTH WITH ASSEMBLY COMBINATIONS F. B. - H. B.

L3 = LENGTH WITH ASSEMBLY COMBINATIONS B. B.

J = WRENCH CLEARANCE REQUIRED TO TIGHTEN AND LOOSEN THE BUSH ON THE SHAFT. BORE LIMIT IS H7 UNLESS OTHERWISE SPECIFIED.

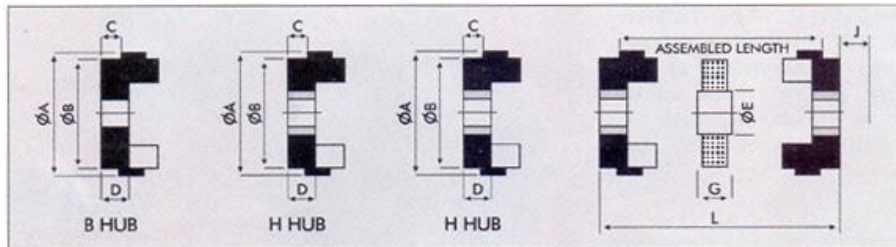
TABLE 4. PHYSICAL CHARACTERISTICS

SIZE	MAXIMUM SPEED (REV / MIN)	TORQUE RATING (Nm)		MOMENT OF INERTIA Mr ² (kgm ²)	TORSIONAL STIFFNESS (Nm/Degree)	MAXIMUM MISALIGNMENT		MASS (kg)
		NORMAL	MAXIMUM			PARALLEL	AXIAL	
HRC-70	9100	31.5	72	0.00085	10.2	0.3	+0.20	1.00
HRC-90	7400	80	180	0.00115	25.5	0.3	+0.49	1.17
HRC-110	5630	160	360	0.00400	48.0	0.3	+0.61	5.00
HRC-130	4850	315	720	0.00780	84.0	0.4	+0.79	5.46
HRC-150	4200	600	1500	0.01810	176.0	0.4	+0.92	7.11
HRC-180	3500	950	2350	0.04340	240.0	0.4	+1.09	16.60
HRC-230	2800	2000	5000	0.12068	336.0	0.5	+1.32	26.00
HRC-280	2300	3150	7200	0.44653	960.0	0.5	+1.70	50.00

❖ MASS IS FOR COUPLING WITH MID-RANGE BORE TAPER BUSHES

❖ THE MAXIMUM ANGULAR MISALIGNMENT IS 1°

❖ FOR SPEEDS BELOW 100 Rpm & INTERMEDIATE SPEEDS USE NORMAL TORQUE RATINGS.



❖ IN VIEW OF OUR CONSTANT ENDEAVOUR TO IMPROVE QUALITY OF OUR PRODUCTS, WE REAEVE THE RIGHT TO ALTER OR CHANGE SPECIFICATIONS WITHOUT PRIOR NOTICE.

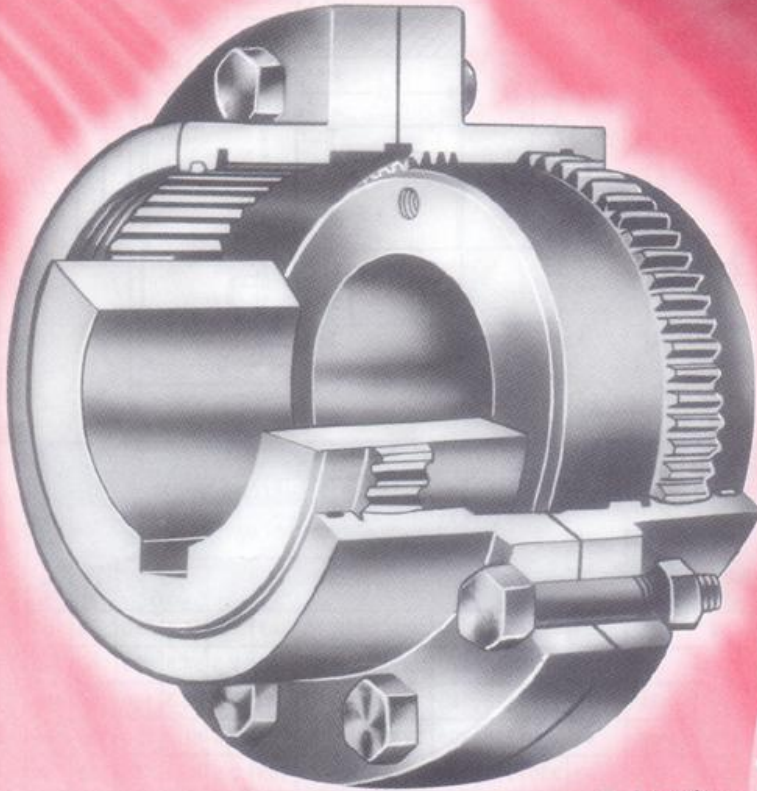


(INDIA)



EAGLE

FLEXIBLE GEAR COUPLING



SPECIALISE IN COUPLINGS FOR

- Pumps
- Cranes
- Refineries
- Paper Mills
- Sugar Mills
- Gear Boxes
- Compressors
- Cement Plant
- Mining Industries
- Steel Rolling Mills
- Thermal Power House
- Fertiliser & Petrochemical Plants

EAGLE Flexible Gear Couplings have been designed to provide efficient mechanical power transmission capable of both high loads and high speed.

EAGLE Flexible Gear Couplings accommodates angular offset or combined angular offset misalignment to fair extent without under strain on shaft and bearings and permit free to each shaft.

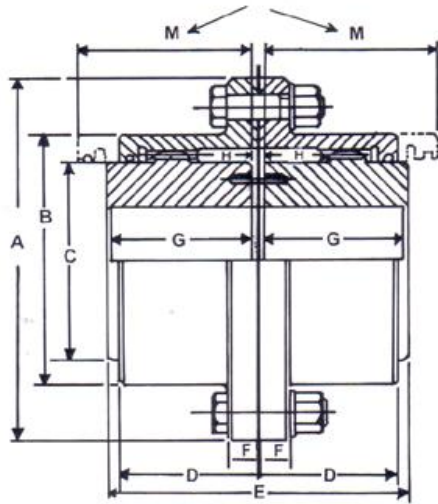
EAGLE Flexible Gear Couplings offer greatest reliability due to up-to-date design and careful manufacturing ensure economical wight and dimensions with low moments of inertia. it offers long service life with minimum maintenance.

CONSTRUCTION:- EAGLE Flexible Gear Coupling consisting of two toothed hubs, two flanged sleeves with internal teeth, made out of EN9/ C55 steel.

EAGLE Flexible Gear Couplings flanged sleeves are identical and interchangeable and are connected with each other by means of close tolerance bolts. Four lube plug are provided for filling oil/greases. the use of 'O' ring for sealing of oil/grease.

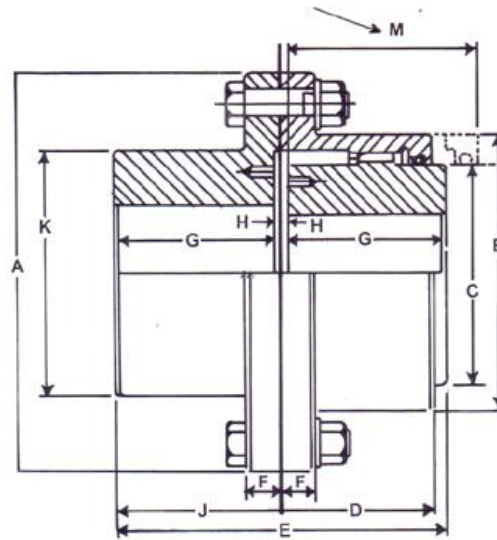
FULL GEAR COUPLING TYPE

MINIMUM CLEARANCE REQUIRED FOR ALIGNING



HALF GEAR HALF RIGID COUPLING TYPE

MINIMUM CLEARANCE REQUIRED FOR ALIGNING



RATINGS AND DIMENSIONS FULL GEARED COUPLING AND HALF RIGID COUPLINGS

Gear Coupling No	Maximum Bore in M.M.		Pilot Bore mm	Max Speed R.P.M.	Load Capacity		GD ² Kg.M ²	DIMENSIONS IN MM													Wt. in Kg.
	Gear	Rigid			Torque Kg. M.	HP Per 100 R.P.M.		A	B	C	D	E	F	G	H	J	K	M			
100	35	50	10	8000	50	7	.03	120	75	50	39.5	93	15	45	1.5	46.5	70	55	4.2		
101	50	60	20	6300	100	14	.14	170	110	70	49	115	17	55	2.5	57.5	85	65	10		
102	60	75	30	5000	250	35	.20	185	125	85	62	145	17	70	2.5	72.5	110	80	15		
103	75	90	35	4000	450	63	.48	220	155	105	78	175	20	85	2.5	87.5	130	105	26		
104	90	110	45	3300	850	119	.95	250	190	130	96	215	20	105	2.5	107.5	160	125	40		
105	110	130	50	2800	1300	182	1.90	290	225	145	106	230	25	110	5.0	115	185	140	62		
106	125	150	65	2500	2000	280	3.00	320	250	175	117	260	25	125	5.0	130	215	155	85		
107	140	170	85	2100	3500	490	5.25	350	270	200	134	290	25	140	5.0	145	240	175	120		
108	160	200	105	1900	4500	630	8.50	380	290	230	147	320	25	155	5.0	160	285	190	180		
109	180	220	125	1700	5600	784	15.00	430	330	250	156	340	25	165	5.0	170	315	205	210		
110	220	260	140	1400	8200	1148	30.50	490	390	310	171	370	25	180	5.0	185	370	220	290		



AMITY - PH.: 465407



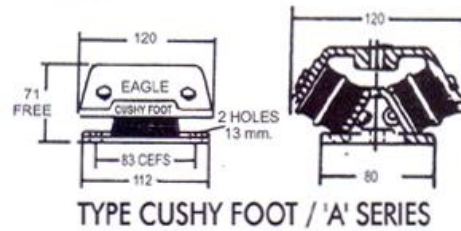
EAGLE

CUSHY FOOT MOUNTINGS &
ANTI-VIBRATION MACHINE MOUNTS

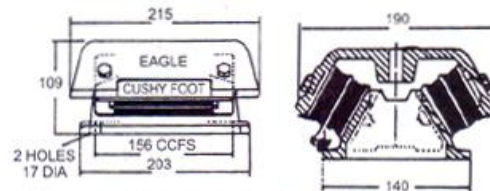


SELECTION/MOUNTING PROCEDURE:-

1. Obtain weight & Centre of gravity of the assembly to be mounted.
2. If (1) is not readily available obtain weights & respective centers of gravity of the individual units which make up the mounted mass, e.g. Engine, Radiator, Alternator, Flywheel, Base frame etc. of a D.G. Set.
3. Determine the position of Centre of Gravity of the assembly by reference to two vertical planes at right angles to each taking moments of the separate units about these datum planes and dividing the respective sum of these by the total weight of the assembly.
4. Determine the disturbing frequencies which are usually primary and/or secondary orders of the slowest speed of the machine
5. Decide on minimum amount of isolation required normally aim for more than 80%.
6. Decide on the type and number of mounts required after reference to the static spring rate characteristics which indicate load/deflection and load capacity details bearing the following points in mind:- (a) All mounts must be equally deflected (b) It is preferable that all mounts should be equally loaded.
7. Fix Mounting positions around the machine so that each mount will be equally loaded. This is achieved by ensuring that the Algebraic sum of the horizontal centre distances of the mountings about the centre of gravity equals to zero This exercise should be carried out in both directions. Long spans between mounting points should be avoided and normally limited to 3-4 ft. although this figure is obviously dependent upon the structural rigidity of the sub-base on which all driver and driven units should be fixed.
8. If it is not possible to distribute the mounts symmetrically about the centre of gravity it will be necessary by taking moments to assess the load reactions at the most convenient mounting points in order to determine a modified mounting stiffness requirement to give uniform deflections on all mounts.



TYPE CUSHY FOOT / 'A' SERIES

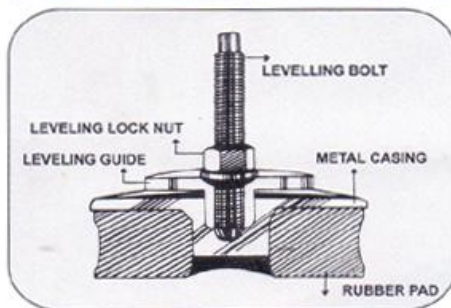


TYPE CUSHY FOOT / 'B' SERIES

LOADINGS

'A' SERIES	'B' SERIES
75 Kg. TO 250 Kg.	250 Kg. TO 1000 Kg.

EAGLE ANTI VIBRATION MACHINE MOUNTS



For optimum performance of your Machine Tools ADVANTAGES OF MACHINERY INSTALLATION

- No Foundation or Grouting
- Easy Installation, Precise Leveling.
- Free from external shock loads and vibrations
- Absorbs shock and impacts.
- Prevents wandering. Firm positioning
- Lower noise level.
- Mobility of machine lay-out
- Immediate Commissioning

SPECIFICATIONS

DIAMETER	50 MM	85 MM	120 MM	160 MM	200 MM
HEIGHT INCLUDING GUIDE	38 MM	43 MM	48 MM	57 MM	65 MM
ADJUSTABLE LEVEL	38-48 MM	43-55 MM	48-60 MM	57-70 MM	65-77 MM
LOADING/MOUNT MACHINE TOOLS	175 Kg.	300 Kg.	500 Kg.	800 Kg.	1500 Kg.
LOADING/MOUNT-GRINDING MACHINE	240 Kg.	400 Kg.	800 Kg.	1200 Kg.	2000 Kg.
LOADING/MOUNT-POWER PRESSES					
MAX : STROKES/Min: 200	75 Kg.	120 Kg.	250 Kg.	500 Kg.	800 Kg.
160	90 Kg.	140 Kg.	300 Kg.	600 Kg.	1200 Kg.
125 OR LESS	120 Kg.	200 Kg.	400 Kg.	1000 Kg.	1500 Kg.
	M10 X 1.25	M12 X 1.25	M12 X 1.25	M16 X 1.50	M20 X 1.50



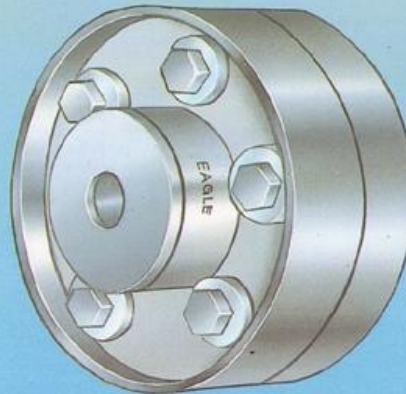
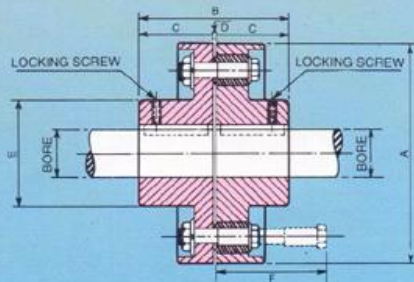
ENGINEERS

(INDIA)



EAGLE

BUSH TYPE FLEXIBLE COUPLINGS



The Eagle Bush Type Flexible Coupling is of the cushioned drive type, transmitting the torque, through high tensile steel bolts to the machine input shaft. Highly developed rubber compounds are used in bushes to absorb shock loads, torsional vibrations and slight misalignments.

Simple and compact in construction, the Eagle Coupling is capable of transmitting high torques at maximum speeds. This type of coupling permits drive in either direction and requires neither lubrication nor adjustment after fitting. The flexible bushes remain unaffected by water, dust and atmospheric conditions.

The listed couplings are standard, but special types and sizes will be considered if quantities warrant tooling. Flanges are bored to suit requirements and are keywayed to British Standard specifications, unless otherwise stated. They can also be supplied with the listed minimum bore to permit machining on site.

Powers for the standard couplings range from 0.84 kW to 249 kW at 100 r.p.m. and sizes from E1 to NE11.

TABLE 1 : DIMENSIONS

Size	No. of Pins	Torque NM	Stock Min. Bore	Max. Bore	Max. Speed in rev/min.	A	B	C	D	E	F
E1	3	77	12.7	28	6100	95	79	38	3	44	58
E2	4	310	12.7	30	5100	114	99	48	3	51	70
E2A	6	516	16.0	42	4400	130	105	51	3	68	70
E3	4	621	16.0	48	3600	160	107	51	5	75	114
E4	4	831									
E4A	6	1241	20.0	65	3000	191	125	60	5	105	114
E5	6	1662	25.0	75	2600	225	157	76	5	120	114
E6	8	2359									
E6A	10	2932	45.0	95	2300	254	183	89	5	152	114
E6B	12	3533									
NE7	12	4154	60.0	115	1950	290	235	115	5	185	114
NE7A	14	5195	60.0	120	1900	300	235	115	5	192	130
NE8	16	5816	65.0	130	1850	310	255	125	5	208	130
NE8A	18	7268	65.0	135	1650	340	265	130	5	216	130
NE8B	12	8729	70.0	140	1590	360	276	135	6	224	200
NE9	13	9932	80.0	150	1470	390	316	155	6	240	200
NE9A	15	13274	90.0	160	1400	410	336	165	6	256	200
NE10	16	14420	100.0	170	1300	440	366	180	6	272	200
NE10A	17	18050	110.0	180	1200	480	386	190	6	288	212
NE11	20	23780	120.0	190	1080	530	406	200	6	305	212



INDIA

EAGLE BUSH TYPE FLEXIBLE COUPLINGS

TABLE 2 : POWER RATINGS (KW)

Speed rev / min	COUPLING SIZES																				
	B1	B2	B2A	B3	B4	B4A	B5	B6	B6A	B6B	NB7	NB7A	NB8	NB8A	NB8B	NB9	NB9A	NB10	NB10A	NB11	
100	0.81	3.25	5.40	6.50	8.70	13.0	17.4	24.7	30.7	37.0	43.5	54.4	60.9	76.1	91.4	104	139	151	189	249	
200	1.62	6.50	10.8	13.0	17.4	26.0	34.8	49.4	61.4	74.0	87.0	106.8	121.8	152.2	182.8	208	278	302	378	498	
300	2.43	9.75	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	3.24	13.00	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	4.05	16.25	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	4.86	19.50	32.4	39.0	52.2	78.0	104.4	148.2	184.2	222.0	261.0	326.4	365.4	456.6	548.4	624	834	906	1134	1494	
700	5.67	22.75	37.8	45.5	60.9	91.0	121.8	172.9	214.9	259.0	304.5	380.8	426.3	532.7	639.8	728	973	1057	1323	1743	
720	5.83	23.40	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	6.48	26.00	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	7.29	29.25	48.6	58.5	78.3	117.0	156.6	222.3	276.0	333.0	391.5	489.6	548.1	648.9	822.6	936	1251	1359	1701	2241	
960	7.77	31.20	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	8.10	32.50	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	9.72	39.00	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	1248	1668	1812	2258		
1400	11.34	45.50	75.6	91.0	121.8	182.0	243.6	345.8	429.8	518.0	609.0	761.6	852.6	1065	1280						
1440	11.66	46.80	77.8	93.6	125.3	187.2	250.6	355.7	442.0	532.8	626.4	783.4	877.0	1096	1316						
1600	12.96	52.00	86.4	104.0	139.2	208.0	278.4	395.2	491.0	592.0	696.0	870.4	974.4	1248	1452						
1800	14.58	58.50	97.2	117.0	156.6	234.0	313.2	444.6	552.6	666.0	783.0	979.2									
2000	16.20	65.00	108.0	130.0	174.0	260.0	348.0	494.0	614.0	740.0											
2200	17.82	71.50	118.8	143.0	191.4	286.0	382.8	543.4	675.4	814.0											
2400	19.44	78.00	129.6	156.0	208.8	312.0	417.6														
2600	21.06	84.50	140.4	169.0	228.2	338.0	452.4														
2800	22.68	91.00	151.2	182.0	243.6	364.0															
2880	23.33	93.80	155.5	187.2	250.6	374.4															
3000	24.30	97.50	162.0	195.0	261.0	390.0															
3600	28.35	113.75	189.0	260.0																	
4000	32.40	130.00	216.0																		
4500	36.45	148.25																			

AMITY -PH. : 698224

