

Lovejoy / Sier-Bath Continuous Sleeve Gear Couplings

CMM Type Mill Motor Couplings

The CMM Type coupling consists of one standard flex hub, one universal hub, one standard sleeve and one accessory kit consisting of seals and snap rings.

Features

- Specifically designed for mill motors with tapered bores
- Universal hub counterbored for the nut on the end of the motor shaft
- One piece cylindrical sleeve for smoother, faster, quieter and safer operation
- Quick assembly and disassembly



CMM Type Performance Data

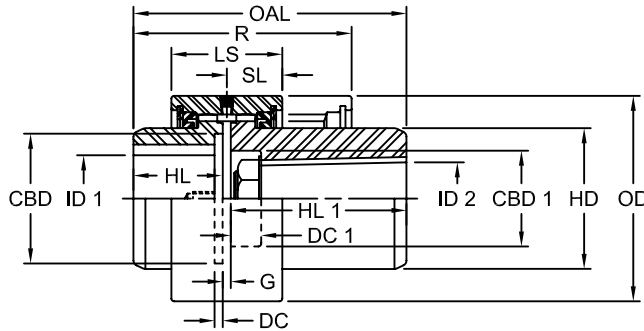
Size	Nominal Torque		Maximum Speed		ID1 - ID2				Weight		Parallel Misalignment		Max Angular Misalignment Degrees				
					Unbal		Bal							Max Bore		Rough Stock Bore	
					RPM	RPM	in	mm						in	mm	lbs	kg
7/8	2,500	300	6,000	18,000	1.25	31	0.44	11	7	3.2	0.005	.13	1/2°				
1.5	7,600	900	5,000	15,000	1.63	42	0.63	16	11	5.0	0.007	.18					
2	20,200	2 300	4,200	12,600	2.13	56	0.73	19	19	8.6	0.007	.18					
2.5	30,200	3 400	3,750	11,250	2.63	70	0.88	22	29	13.0	0.007	.18					
3	50,400	5 700	3,600	9,000	3.13	84	1.19	30	46	21.0	0.010	.25					
3.5	88,200	10 000	2,800	8,400	3.63	97	1.25	32	77	35.0	0.012	.30	1/4°				
4	126,000	14 200	2,400	7,200	4.13	111	1.75	44	109	49.0	0.012	.30					
4.5	184,000	20 800	2,200	6,600	4.75	130	2.38	60	155	70.0	0.007	.18					
5	270,000	30 600	2,100	6,300	5.75	160	2.88	73	220	100.0	0.007	.18					
6	378,000	42 700	2,000	6,000	6.75	186	3.88	99	315	143.0	0.009	.23					

Ordering Information

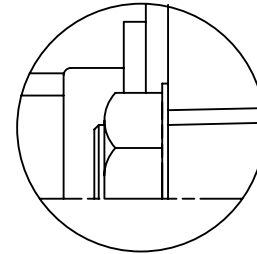
- Application: Driver and Driven.
- Type and size of coupling, horizontal, vertical etc.
- Power: Motor horsepower or torque requirement.
- Speed: Motor RPM or Driven RPM.
- Distance between shaft ends (BSE).
- Shaft sizes.
- Length and taper per foot of Mill Motor shaft.
- Size of nut to be used on Mill Motor (DC1 and CBD1).
- Specify if keyways are to be parallel to shaft axis or tapered.

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Standard Type



Alternative Type

CMM Type Dimensional Data

Size	OAL	R	LS	SL	ID1 - ID2				HL	HL1	DC	DC1	G	OD	HD	CBD	CBD 1
					Max Bore		Rough Stock Bore										
					in	mm	in	mm									
7/8	Determined by Length of Mill Motor Hub	3.75	2.00	1.00	1.25	31	0.44	11	1.50	3.75	0.13	Determined by Customer Specifications	0.13	3.31	2.00	1.94	1.63
1.5		4.59	2.53	1.27	1.63	42	0.63	16	1.81	4.00	0.19		0.13	3.75	2.38	2.25	1.88
2		4.88	2.56	1.28	2.13	56	0.73	19	2.06	4.63	0.19		0.13	4.75	3.25	3.00	2.75
2.5		5.72	3.06	1.53	2.63	70	0.88	22	2.25	5.13	0.25		0.25	5.50	3.94	3.75	3.25
3		6.88	3.75	1.88	3.13	84	1.19	30	2.63	5.75	0.25		0.25	6.63	4.75	4.75	3.88
3.5		9.25	4.00	2.00	3.63	97	1.25	32	4.25	6.50	0.25		0.25	7.50	5.38	5.50	4.50
4		9.50	4.63	2.31	4.13	111	1.75	44	4.38	6.63	0.25		0.25	8.75	6.25	6.50	5.13
4.5		10.38	4.88	2.44	4.75	130	2.38	60	5.00	7.75	0.25		0.25	9.50	7.25	7.25	5.50
5		12.25	5.75	2.88	5.75	160	2.88	73	6.00	7.88	0.25		0.25	10.75	8.25	8.13	6.50
6		13.38	6.50	3.25	6.75	186	3.88	99	6.38	9.25	0.25		0.25	12.25	9.50	9.25	7.75

Ordering Information

- HL1 Dimensions are the maximum lengths of Universal hubs kept in stock and altered to customer specifications. Longer length hubs are made to order.
- Dimension CBD1 as shown is the maximum safe counterbore. Diameter of this counterbore is to customer specifications.
- Rough bore mill motor hubs are manufactured to HL1 length with straight bores.
- Puller Holes are standard on sizes 4 through 12.
- Puller Holes are available for sizes 7/8 through 3.5 at an additional charge.
- Interference bores with no set screws are standard unless otherwise specified.
- Inch bores and keyway tolerances conform to ANSI / AGMA 9002-B04.
- For metric bores and keyway, consult Lovejoy Engineering Section.
- Larger sizes are available, please consult Lovejoy Technical Support.