

# Gear Coupling: Type C



Continuous Sleeve Gear couplings are the most compact torque transmitting devices available. In fact, “C” gear couplings are only 60% of the size of a flanged sleeve gear coupling. With its light weight, smaller envelope and lower inertia, C Coupling has a longer life than other gear couplings and can provide you with more trouble-free operation hours.

Additionally, C Couplings absorb misalignment (angular and offset) and end-float through the racking action of the hubs in the sleeve. The advanced assembly and lubrication sealing arrangement eliminates the need for cumbersome flanges, bolts and nuts.

The Standard continuous sleeve coupling design is one of simplicity, which allows inexpensive adaptation to a wide variety of special types. So if you are looking for smaller size, longer life and lower cost in your gear couplings, look to Continuous Sleeve Gear couplings.

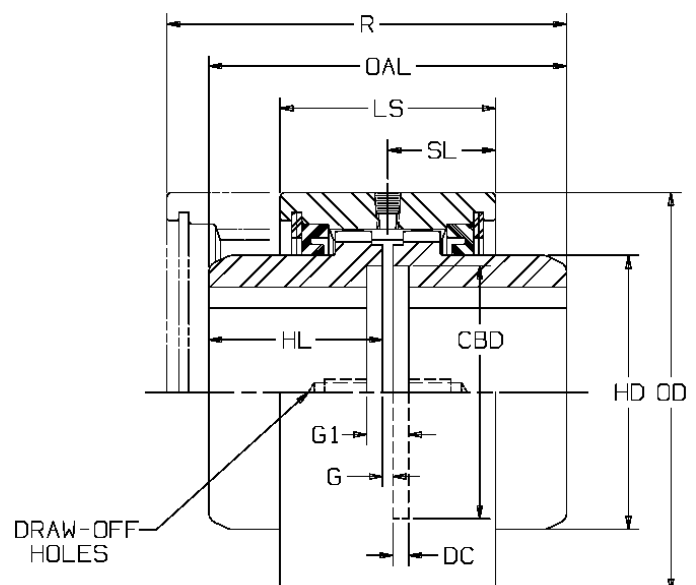
For reasonable life expectancy and low reactionary loads, misalignment per mesh should not exceed  $3/4^\circ$  for small couplings and  $1/2^\circ$  for larger couplings.

## Benefit:

- Easy Installation (no bolts or nuts).
- Simple alignment process.
- Blind assembly possible.
- Quick disconnect for maintenance.
- Lightweight.

## Sample Application:

- Pumps
- Conveyors
- Compressors
- Cranes
- Hoists
- Machine Tools
- Drilling Machines
- Speed Changers
- Mixers
- Barkers
- Chippers
- Pellet Mills
- Calenders
- Refiners
- Banbury Mixers

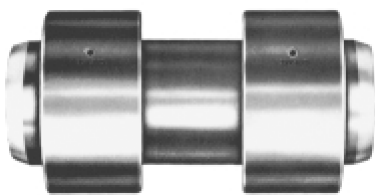


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The assembly includes one sleeve, two hubs, two seals and two retaining rings. The patented seals are made of Buna N with two reinforcing washers bonded to the inside faces to seal the interior against foreign matter and positively retain lubricant. The two spiral wound retaining rings are made of oil-hardened spring steel. They are easy to install and remove, yet they withstand over 100,000 pounds of end-thrust to securely hold the coupling together.

Machined from medium carbon steel, the gear teeth are precision cut with minimal backlash. They are smaller for even distribution of load, greater capacity and longer life.

Size C	Rough Bore inch	Max. Std. Key inch	bore Metric Key mm	Max. Speed Unbal.	Capacity		OAL inch	OD inch	LS inch	HD inch	HL inch	SL inch	*Distance Between Shafts		R inch	DC inch	CBD inch	Approx. Wt., lbs. Rough Bore
					HP/100 R.P.M.	Torque lb./in.							G inch	G1 inch				
7/8	0.44	1.250	31	6,000	4	2.5	3.13	3.31	2.00	1.50	2.00	1.00	0.13	0.38	3.75	0.13	1.94	5
1 1/2	0.61	1.625	42	5,000	12	7.6	3.75	3.75	2.53	1.81	2.53	1.27	0.13	0.50	4.59	0.19	2.25	8
2	0.73	2.125	56	42,00	32	20.2	4.25	4.75	2.56	2.06	2.56	1.28	0.13	0.50	4.88	0.19	3.00	13
2 1/2	0.86	2.625	70	3,750	48	30.2	4.75	5.50	3.06	2.25	3.06	1.53	0.25	0.75	5.72	0.25	3.75	20
3	1.19	3.125	84	3,000	80	50.4	5.50	6.63	3.75	2.63	3.75	1.88	0.25	0.75	6.88	0.25	4.75	33
3 1/2	1.25	3.625	97	2,800	140	88.2	8.75	7.50	4.00	4.25	4.00	2.00	0.25	0.75	9.25	0.25	5.50	63
4	1.75	4.125	111	2,400	200	126.0	9.00	8.75	4.63	4.38	4.63	2.31	0.25	0.75	9.50	0.25	6.50	91
4 1/2	2.38	4.750	130	2,200	292	184.0	10.25	9.5	4.88	5.00	4.88	2.44	0.25	0.75	10.38	0.25	7.25	126
5	2.88	5.750	160	2,100	430	270.9	12.25	10.75	5.75	6.00	5.75	2.88	0.25	0.75	12.25	0.25	8.13	195
6	3.88	6.625	186	2,000	600	378.0	13.00	12.25	6.50	6.38	6.50	3.25	0.25	0.75	13.38	0.25	9.25	267
7	4.69	7.500	200	1,000	950	598.5	14.88	14.00	7.50	7.25	7.50	3.75	0.38	0.88	15.38	0.25	9.75	320
9	5.88	9500	248	800	2,000	1,260.0	19.00	16.25	8.13	9.25	8.13	4.06	0.50	1.00	19.00	0.25	12.50	520
11	7.75	11500	305	600	3,500	2,205.0	22.50	19.25	8.13	11.00	8.13	4.06	0.50	1.00	22.50	0.25	15.50	925
12	9.75	12500	4,000	550	4,000	2,520.0	25.00	20.50	8.38	12.25	8.38	4.19	0.50	1.00	25.00	0.25	16.00	1,200



Spacer Type



Floating Shaft Type



Universal Hub Type



Cut Out Type