



Lovejoy Jaw Couplings

Jaw In-Shear 6 Pin Installation Instructions

Carefully follow the instructions in this manual for optimum performance and trouble free service.

This manual applies to standard Jaw In-Shear 6 Pin couplings. Please refer to separate sheet for Jaw In-Shear spacer type couplings.

The Jaw In-Shear coupling is used for applications requiring quick element replacement without moving either the driver or driven hub.

Installation & Alignment Instructions

All parts must be clean and free of any foreign materials before attempting assembly, use a non-flammable solvent. All Parts should be examined for any damage during shipping and handling. Measurements should be taken to verify correctness of parts to meet application requirements, such as, hub and shaft fits, shaft separation, etc. Check hubs, shafts and keyways for burrs.

- Slide one coupling hub onto each shaft, using keys when required. **Make sure to place the 6 Pin ring over the hub on the left.** Ensure that the keys should fit snugly.
- Position the hubs on the shafts to approximately achieve the "G" dimension shown in table 1. For best results, an equal length of shaft should be placed in each hub. Tighten both hubs into its final position using the setscrew tightening torque given in table 2.
- Check parallel alignment by placing a straight edge across the two coupling hubs, and measure the maximum offset at various points around the periphery of the coupling without rotating the coupling. If the maximum offset exceeds the figure shown under Table 1, realign the shafts.
- Check angular alignment with a micrometer, vernier, or caliper. Measure "X" from one hub to the other at intervals around the coupling. Determine the maximum and minimum dimensions without rotating the coupling, the difference of these two measurements must be less than the angular value in Table 1. If a correction is necessary, be sure to recheck the parallel alignment.
- Examine the In-shear spider. One side of the spider contains raised writing and small bumps or nubs, while the other side is a machined flat surface. Install the spider with the writing side facing to the right.
- Line up three of the pins to the corresponding channels that run through the element. **Slide the pins of the ring all the way through the element until they are completely through to the other side (from left to right).**
- Twist the ring so that the pins move past the nubs, locking the element into place

Caution: Consult applicable local and national safety codes for proper guarding of rotating coupling. Observe all safety rules when installing or servicing couplings.

Warning: Lockout starting switch of prime mover and remove all external loads from drive before installing or servicing coupling.

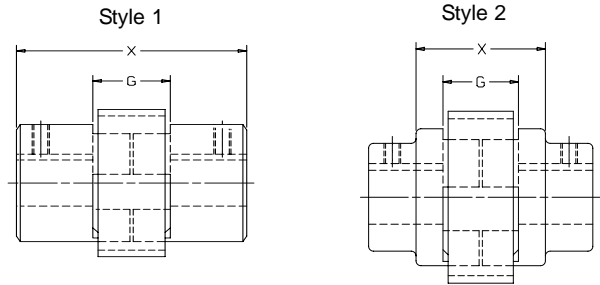
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Maintenance

The Jaw In-Shear spider should be checked on a periodic basis for wear and possible replacement.

Alignment Information Table 1

Size	Max RPM	"G" Dimension	Allowable Misalignment		
			Parallel IN	Angular Deg	Axial IN
LS090	9200	1.00	0.030	2	0.031
LS095	9200	1.00	0.030	2	0.031
LS099	7700	1.40	0.030	2	0.031
LS100	7700	1.40	0.030	2	0.031
LS110	5900	1.64	0.030	2	0.031
LS150	5200	1.94	0.030	2	0.031
LS190	4300	1.94	0.047	2	0.047
LS225	3900	1.94	0.047	2	0.047
LS276	3100	3.19	0.047	2	0.063
CS280	2600	3.19	0.047	2	0.063
CS285	2300	3.19	0.063	2	0.063
CS300	2300	4.25	0.063	2	0.094
CS310	2100	4.25	0.063	2	0.094
CS350	1900	4.88	0.063	2	0.125
CS400	1800	5.38	0.094	2	0.125
CS500	1500	6.38	0.094	2	0.125



Set Screw Tightening Torque Table 2

Cplg. Size	Inch Set Screws				Metric Set Screws			
	Set Screw Size	Length	Tightening Torque in-lbs	Tightening Torque NM	Set Screw Size	Length	Tightening Torque	Tightening Torque
LS090	1/4-20	3/16	45-50	5-5.6	M4	3 & up	18	2
		1/4 & up	78-87	9-10	M6	4-6 8 & up	44 58-62	5 6.6-7
LS095	5/16-18	1/4	80-90	9-10	M8	5-8	84-88	9.5-10
LS099	5/16 & up	1/2	150-165	17-19	M10	10 & up	142-150	16-17
LS100								
LS110	3/8-16	1/4	135-150	15-17	M12	6-10 12 & up	168-177	19-20
LS150		5/16	225-250	25-28				
		3/8 & up	260-290	29-33				
LS190	1/2-13	1/2 & up	540-600	61-68	M16	8-12 14 & up	372-396	42-45
LS225								
LS276								
CS276								
CS280								
CS285	5/8-11	5/8 & up	110-1200	124-136	M16	16 18 & up	756-792	86-90
CS300*								
CS310*								
CS350*								
CS400*								
CS500*								