



## JAW IN-SHEAR TYPE COUPLING

### JAW IN-SHEAR

Spider is non-fail-safe and thus acts as a fuse to prevent equipment damage in the event of torque overloads. It is radially removable, meaning that neither hub (or driver/driven equipment) has to be moved to make replacement of the spider. This saves time and money in maintenance costs. The retaining ring which encloses the In-Shear Spider has small pins which simply slide through grooves in the perimeter of the spider and twist-lock into place. It will not work its way loose and since there are no fasteners involved, maintenance/removal of the spider takes only a few minutes. It uses the standard L-Type and C-Type Jaw Coupling hubs. Existing applications using in-compression spiders can simply be retrofitted with the new In-Shear Spider if the features are beneficial. The Jaw In-Shear Spider is made from Urethane. The In-Shear coupling has different power ratings to the standard jaw coupling and also uses different service factors, please contact Naismith Engineering.

### PERFORMANCE DATA

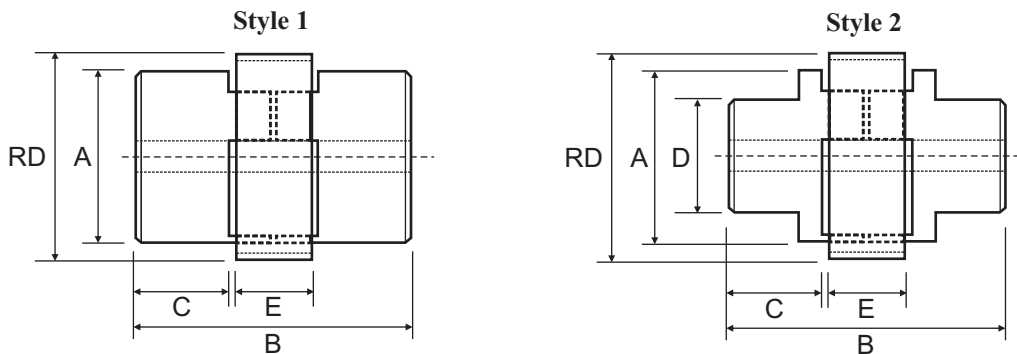


Part No.	Max Bore	Power at 100 RPM kW	Nominal Torque (Nm)	Normal Maximum Speed (RPM)
LS095	28.6	0.398	38.0	9200
LS100	35.0	0.660	63.0	7700
LS110	42.0	1.288	123.0	5900
LS150	48.0	2.147	205.0	5200
LS190	55.0	3.455	330.0	4300
LS225	66.7	4.974	475.0	3900
LS276	73.0	8.827	843.0	3100
CS280	76.2	15.738	1503.0	2600
CS285	102.0	22.199	2120.0	2300

### General specifications of the Lovejoy Jaw In-Shear Coupling are:-

- 2° angular misalignment capability
- 0.7mm - 1.2mm parallel misalignment capability
- 50D shore Urethane material, max temperature of 93°C (200°F)
- Torsional wind-up of 5° at full load
- Retaining ring is made from #347 cast stainless steel
- Can be used with SS-type Stainless Steel jaw coupling hubs
- Can be used with AL-type aluminium jaw coupling hubs for sizes AL095, AL 100 and AL110

### DIMENSIONAL DATA



Part No.	StyLSe No.	Bore		A	B	C	D	E	RD
		Min	Max						
LS095	1	11.1	28.6	53.6	76.2	25.4	-	21.1	69.9
LS100	1	11.1	35.0	64.5	105.7	35.1	-	30.7	81.0
LS110	1	15.9	42.0	84.3	127.0	42.7	-	36.8	101.6
LS150	1	15.9	48.0	95.3	138.2	44.4	-	43.4	119.1
LS190	2	19.1	55.0	114.3	147.8	49.3	101.6	43.4	139.7
LS225	2	19.1	66.7	127.0	160.0	55.4	108.0	43.4	155.7
LS276	2	22.2	73.0	157.0	239.5	79.2	127.0	75.4	188.2
CS280	2	31.8	76.2	190.5	239.5	79.2	139.7	75.4	227.1
CS285	2	31.8	102.0	215.9	271.5	95.3	165.1	75.4	254.0