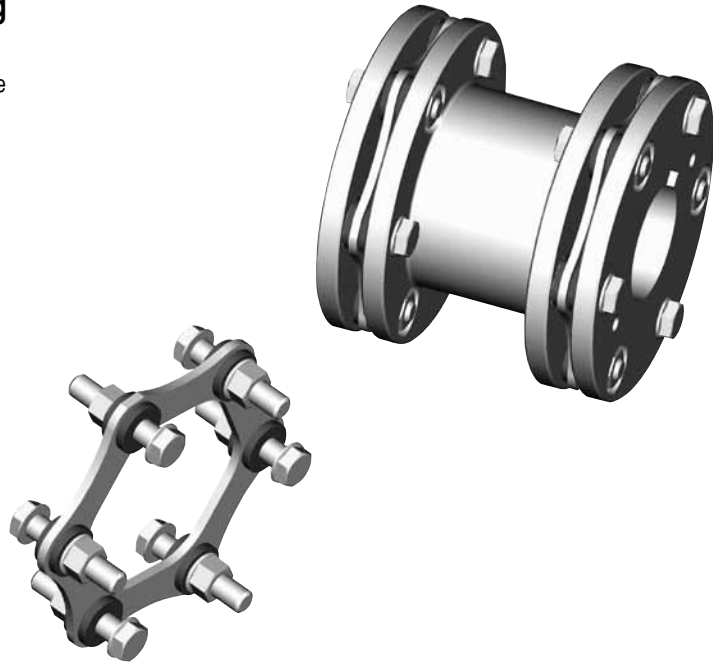


## SXC-6 Type Closed Coupled Industrial Coupling

The SXC-6 Type is the standard 6 bolt coupling with two hubs, two disc packs and a spacer. The hubs can both be turned inward to accommodate close coupled applications or one hub can be turned outward to accommodate additional BSE's (shaft separation). The coupling has two flex planes (one at each disc pack) so it can accommodate parallel misalignment by the angular misalignment in each disc pack. This configuration will also accommodate axial misalignment within the specified limits.

### Features

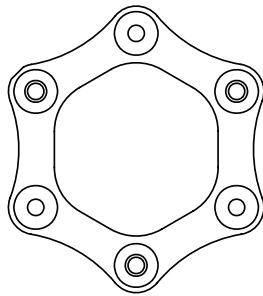
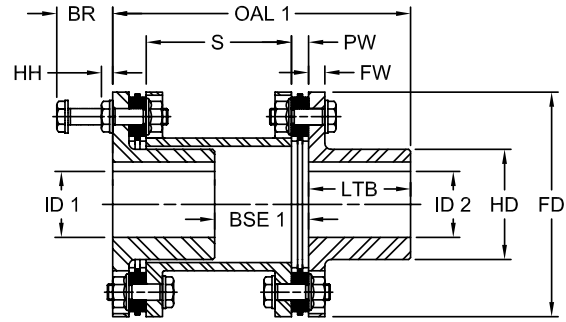
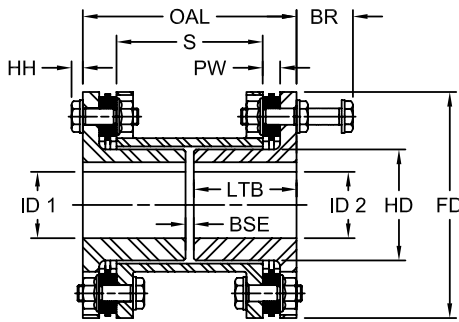
- Unitized disc packs
- Infinite life if properly aligned
- Torsionally rigid without any back lash
- No need for lubrication or maintenance
- No wearing parts and high resistance to harsh environmental conditions
- Can be combined with SU/SX hub for increased bore capacity (See page D-15)



### SXC-6 Performance Data

Size	Nominal Torque		Peak Torque		Max Speed		ID1-ID2 Max Bore <sup>3</sup>		Weight <sup>4</sup>		Axial <sup>5</sup> Misalignment ± Δ Ka		Angular <sup>6</sup> Misalignment Max Degrees
	in-lbs	Nm	in-lbs	Nm	Unbal <sup>1</sup> RPM	Bal <sup>2</sup> RPM	in	mm	lbs	kg	in	mm	
110-6	5,100	600	10,200	1 200	7,200	18,000	1.56	39	4	1.8	0.083	2.1	1.5°
132-6	9,700	1 100	19,500	2 200	5,840	14,600	2.06	50	8	3.8	0.102	2.6	
158-6	17,700	2 000	35,400	4 000	4,920	12,300	2.38	60	13	5.8	0.122	3.1	
185-6	29,200	3 300	58,400	6 600	4,200	10,500	2.68	68	22	10.0	0.146	3.7	
202-6	40,700	4 600	81,400	9 200	3,840	9,600	3.06	75	33	15.0	0.150	3.8	1°
228-6	62,000	7 000	123,900	14 000	3,400	8,500	3.44	85	46	21.0	0.165	4.2	
255-6	90,300	10 200	180,600	20 400	3,080	7,700	3.88	95	60	27.0	0.185	4.7	
278-6	125,700	14 200	251,400	28 400	2,800	7,000	4.25	105	79	36.0	0.205	5.2	
302-6	177,000	20 000	354,000	40 000	2,560	6,400	4.63	115	101	46.0	0.224	5.7	
325-6	221,300	25 000	442,600	50 000	2,400	6,000	4.88	125	121	55.0	0.256	6.5	
345-6	274,400	31 000	548,800	62 000	2,200	5,500	5.25	130	154	70.0	0.272	6.9	
380-6	374,400	42 300	748,800	84 600	2,040	5,100	5.75	145	203	92.0	0.299	7.6	
410-6	505,400	57 100	1,011,000	114 200	1,880	4,700	6.25	160	256	116.0	0.323	8.2	
440-6	650,500	73 500	1,301,000	147 000	1,740	4,350	6.50	165	300	136.0	0.346	8.8	

- Notes:
- 1 indicates: Operating speed must be equal or less than permissible speed. Permissible speeds could be limited by the weight and the critical speeds of the spacer.
  - 2 indicates: Couplings as manufactured can accommodate maximum speeds as listed. Higher speeds up to the value shown as "Bal" require special balancing.
  - 3 indicates: The maximum bores shown are for cylindrical or taper shafts with keys. For other type of connections contact Lovejoy Technical Support.
  - 4 indicates: Weight is given for a complete coupling with minimum BSE and maximum bores.
  - 5 indicates: Axial misalignment is given for two disc packs.
  - 6 indicates: Angular misalignment is given for one disc pack.
  - SU/SX hubs can be used (turned outward) to accommodate maximum bore sizes for the specified hub.



**BSE1:** To calculate the BSE 1 (Between Shaft Ends) with one hub turned out  
 $BSE\ 1 = BSE + LTB - FW$

**OAL1:** To calculate the OAL 1 (Overall Length) with one hub turned out  
 $OAL\ 1 = OAL + LTB - FW$

**SXC-6 Dimensional Data**

Size	OAL		BR <sup>8</sup>		S		HH		PW		LTB		BSE <sup>7</sup> Standard		FD		HD		FW	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
110-6	4.12	105	1.77	45	2.84	72	0.24	6	0.33	8.4	1.97	50	0.18	5	4.33	110	2.13	54	0.31	8
132-6	4.87	124	1.77	45	3.59	91	0.24	6	0.33	8.4	2.36	60	0.15	4	5.20	132	2.79	71	0.31	8
158-6	5.66	144	2.17	55	4.00	102	0.28	7	0.44	11.2	2.76	70	0.14	4	6.22	158	3.31	84	0.39	10
185-6	6.44	164	2.56	65	4.40	112	0.31	8	0.55	14.0	3.15	80	0.14	4	7.28	185	3.74	95	0.47	12
202-6	7.35	187	2.95	75	5.03	128	0.35	9	0.61	15.5	3.54	90	0.27	7	7.95	202	4.25	108	0.55	14
228-6	8.14	207	3.35	85	5.50	140	0.39	10	0.69	17.5	3.94	100	0.26	7	8.98	228	4.84	123	0.63	16
255-6	9.33	237	3.94	100	6.14	156	0.51	13	0.81	20.5	4.53	115	0.27	7	10.04	255	5.43	138	0.79	20
278-6	10.20	259	4.13	105	6.96	177	0.51	13	0.84	21.2	4.92	125	0.37	9	10.95	278	5.99	152	0.79	20
302-6	10.99	279	4.53	115	7.33	186	0.55	14	0.96	24.4	5.32	135	0.35	9	11.89	302	6.50	165	0.87	22
325-6	11.74	298	4.53	115	7.95	202	0.55	14	1.02	26.0	5.71	145	0.32	8	12.80	325	6.85	174	0.87	22
345-6	12.51	318	4.92	125	8.41	214	0.59	15	1.11	28.2	6.10	155	0.31	8	13.58	345	7.32	186	0.94	24
380-6	13.80	350	5.51	140	9.16	233	0.67	17	1.26	32.0	6.70	170	0.40	10	14.96	380	8.03	204	1.06	27
410-6	14.98	380	5.91	150	10.01	254	0.75	19	1.31	33.2	7.28	185	0.42	11	16.14	410	8.78	223	1.18	30
440-6	15.79	401	6.50	165	10.32	262	0.83	21	1.43	36.4	7.68	195	0.43	11	17.32	440	9.17	233	1.30	33

- Notes:
- 7 indicates: BSE is the distance between shaft ends and is a variable parameter.
  - 8 indicates: Customer is responsible for ensuring there is enough room between the coupling and equipment to install the bolts and properly torque them with a torque wrench. Additional shaft length may be required. See Disc Coupling Worksheet, page D-8 item 5.
  - Metric dimensions are rounded to the nearest 'mm' except where otherwise shown.
  - ID1 – ID2 Dimensional Data on page D-16.