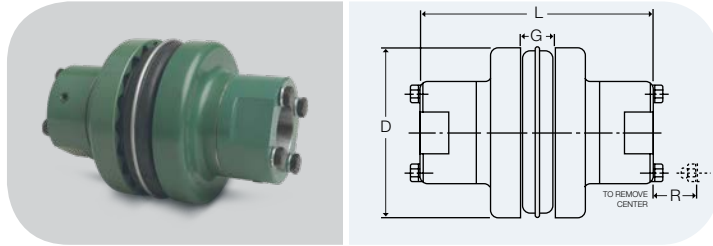


# Type SC Spacer Couplings BTS

## Selection Conventional Spacer Design



For other distances between shaft ends not shown here, please see page F1-16 or use the Coupling Selection Program at [www.TBWoods.com/Select](http://www.TBWoods.com/Select).

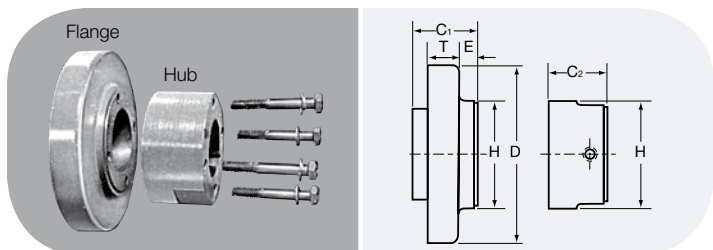
For dimensions of separate Type SC Spacer components, refer to page F1-15.

Coupling Size	Required Distance Between Shafts	Use Flange Number	Use Hub Number	Max Bore Std. KS	Dimensions				Weight (lbs.) ■
					D	L <sup>(2)</sup>	G	R	
<b>4JSC</b>	3-1/2	4JSC35	-	1-1/8 <sup>(1)</sup>	2.460	5-5/8	5/8	-	2.7
<b>5SC</b>	3-1/2	5SC35	5SCH	1-1/8	3.250	5-5/8	3/4	9/16	4.5
<b>6SC</b>	3-1/2	6SC35	6SCH-6SCHS	1-3/8	4.000	5-7/8	7/8	3/4	7.3
	4-3/8	6SC44	6SCH-6SCHS	1-3/8	4.000	6-3/4	7/8	3/4	8.1
<b>7SC</b>	5	6SC50	6SCH-6SCHS	1-3/8	4.000	7-3/8	7/8	3/4	8.7
	3-1/2	7SC35	7SCH-7SCHS	1-5/8	4.625	6-3/8	1	5/8	9.9
	4-3/8	7SC44	7SCH-7SCHS	1-5/8	4.625	7-1/4	1	5/8	10.8
<b>8SC</b>	5	7SC50	7SCH-7SCHS	1-5/8	4.625	7-7/8	1	5/8	11.4
	3-1/2	8SC35	8SCH-8SCHS	1-7/8	5.450	6-7/8	1-1/8	13/16	15.2
	4-3/8	8SC44	8SCH-8SCHS	1-7/8	5.450	7-3/4	1-1/8	13/16	16.4
	5	8SC50	8SCH-8SCHS	1-7/8	5.450	8-3/8	1-1/8	1-3/16	17.4
<b>9SC</b>	5	8SC50-10	10SCH-10SCHS	2-3/8	5.450	9-5/8	1-1/8	1-3/16	27.2
	3-1/2	9SC35	9SCH-9SCHS	2-1/8	6.350	7-1/2	1-7/16	1-1/16	18.6
	4-3/8	9SC44	9SCH-9SCHS	2-1/8	6.350	8-1/4	1-7/16	1-1/16	22.2
	5	9SC50	9SCH-9SCHS	2-1/8	6.350	8-7/8	1-7/16	1-1/16	23.2
	7	9SC70-11	11SCH-11SCHS	2-7/8	6.350	10-3/8	1-7/16	1-3/16	40.4
<b>10SC</b>	7-3/4	9SC78-11	11SCH-11SCHS	2-7/8	6.350	13-1/8	1-7/16	1-3/16	51.0
	4-3/4	10SC48	10SCH-10SCHS	2-3/8	7.500	9-3/8	1-5/8	1-3/16	37.6
	5	10SC50	10SCH-10SCHS	2-3/8	7.500	9-5/8	1-5/8	1-3/16	38.4
	7	10SC70-13	13SCH-13SCHS	3-3/8	7.500	13-5/8	1-5/8	1-7/8	72.0
<b>11SC</b>	7-3/4	10SC78-13	13SCH-13SCHS	3-3/8	7.500	14-3/8	1-5/8	1-7/8	76.0
	10	10SC100-13	13SCH-13SCHS	3-3/8	7.500	16-5/8	1-5/8	1-7/8	88.0
	4-3/4	11SC48	11SCH-11SCHS	2-7/8	8.625	10-5/16	1-7/8	1-3/16	54.5
	5	11SC50	11SCH-11SCHS	2-7/8	8.625	10-3/8	1-7/8	1-3/16	54.7
	7	11SC70-14	14SCH	3-7/8	8.625	14-5/8	1-7/8	2	86.1
<b>12SC</b>	7-3/4	11SC78-14	14SCH	3-7/8	8.625	15-3/8	1-7/8	2	90.3
	10	11SC100-14	14SCH	3-7/8	8.625	17-5/8	1-7/8	2	102.7
	7	12SC70	12SCH-12SCHS	2-7/8	10.000	12-7/8	2-5/16	1-1/2	88.1
	7-3/4	12SC70-14	14SCH	3-7/8	10.000	14-5/8	2-5/16	2	99.1
	10	12SC78-14	14SCH	3-7/8	10.000	15-3/8	2-5/16	2	103.3
<b>13SC</b>	10	12SC100-14	14SCH	3-7/8	10.000	17-5/8	2-5/16	2	115.7
	7-3/4	13SC78	13SCH-13SCHS	3-3/8	11.750	14-3/8	2-11/16	1-7/8	129.6
<b>14SC</b>	7-3/4	14SC78	14SCH	3-7/8	13.875	15-3/8	3-1/4	2	179.9

■ Approximate weight for completely assembled spacer coupling.

<sup>(1)</sup> 4JSC35 x 1-1/8 has shallow keyseat. <sup>(2)</sup> "L" dimension and weight will change if one or two short (HS) hubs used.

Note: Refer to page F1-15 to order — specify components separately.



## TYPE SC FLANGES AND HUBS

Tables on page F1-15 provide dimensional information for flanges and hubs used for Spacer Couplings. For assembled dimensions, see table above. Any of the sleeves shown on page F1-5 may be used.

# Type SC Flanges And Hubs BTS

## Selection

## Conventional Spacer Design

ILLUSTRATION AND DIMENSIONAL DRAWINGS SHOWN AT BOTTOM OF PAGE F1 – 14.

Coupling Size	Flange Number	For Distance Between Shafts*	For Hub	Dimensions					Weight (lbs.) ■
				D	E	H	C <sub>1</sub>	T	
<b>4JSC</b>	4JSC35	3-1/8	①	2.460	2-1/16	2	2-1/2	7/16	1.3
<b>5SC</b>	5SC35	3-1/2	5SCH	3.250	51/64	2	1-11/16	19/32	1.3
<b>6SC</b>	6SC35	3-1/2	6SCH-6SCHS	4.000	19/32	2-1/2	1-5/8	23/32	2.0
	6SC44	4-3/8	6SCH-6SCHS	4.000	1-1/32	2-1/2	2-1/16	23/32	2.4
	6SC50	5	6SCH-6SCHS	4.000	1-11/32	2-1/2	2-3/8	23/32	2.7
<b>7SC</b>	7SC35	3-1/2	7SCH-7SCHS	4.625	15/32	2-13/16	1-5/8	25/32	2.5
	7SC44	4-3/8	7SCH-7SCHS	4.625	29/32	2-13/16	2-1/16	25/32	3.0
	7SC50	5	7SCH-7SCHS	4.625	1-7/32	2-13/16	2-3/8	25/32	3.3
<b>8SC</b>	8SC35	3-1/2	8SCH-8SCHS	5.450	9/32	3-1/4	1-5/8	29/32	3.7
	8SC35-10	3-1/2	10SCH-10SCHS	5.450	9/32	4-3/8	1-5/8	29/32	3.5
	8SC44	4-3/8	8SCH-8SCHS	5.450	23/32	3-1/4	2-1/16	29/32	4.3
	8SC50	5	8SCH-8SCHS	5.450	1-1/32	3-1/4	2-3/8	29/32	4.8
	8SC50-10	5	10SCH-10SCHS	5.450	1-1/32	4-3/8	2-3/8	29/32	5.5
<b>9SC</b>	9SC35	3-1/2	9SCH-9SCHS	6.350	1/16	3-5/8	1-11/16	1-1/32	4.1
	9SC44	4-3/8	9SCH-9SCHS	6.350	7/16	3-5/8	2-1/16	1-1/32	5.9
	9SC50	5	9SCH-9SCHS	6.350	3/4	3-5/8	2-3/8	1-1/32	6.4
	9SC50-11	5	11SCH-11SCHS	6.350	3/4	5-1/4	2-3/8	1-1/32	7.0
	9SC70-11	7	11SCH-11SCHS	6.350	1-3/4	5-1/4	3-3/8	1-1/32	10.9
	9SC78-11	7-3/4	11SCH-11SCHS	6.350	2-1/8	5-1/4	3-3/4	1-1/32	12.3
<b>10SC</b>	10SC48	4-3/4	10SCH-10SCHS	7.500	11/32	4-3/8	2-1/4	1-7/32	9.8
	10SC50	5	10SCH-10SCHS	7.500	15/32	4-3/8	2-3/8	1-7/32	10.2
	10SC70-13	7	13SCH-13SCHS	7.500	1-15/32	6-1/8	3-3/8	1-7/32	14.5
	10SC78-13	7-3/4	13SCH-13SCHS	7.500	1-27/32	6-1/8	3-3/4	1-7/32	16.5
	10SC100-13	10	13SCH-13SCHS	7.500	2-31/32	6-1/8	4-7/8	1-7/32	22.5
<b>11SC</b>	11SC48	4-3/4	11SCH-11SCHS	8.625	1/32	5-1/4	1-1/2	1-1/2	12.5
	11SC50	5	11SCH-11SCHS	8.625	1/16	5-1/4	1-9/16	1-1/2	12.6
	11SC70-14	7	14SCH	8.625	1-1/16	6-1/2	2-9/16	1-1/2	16.3
	11SC78-14	7-3/4	14SCH	8.625	1-7/16	6-1/2	2-15/16	1-1/2	18.4
	11SC100-14	10	14SCH	8.625	2-9/16	6-1/2	4-1/16	1-1/2	24.6
<b>12SC</b>	12SC70	7	12SCH-12SCHS	10.000	21/32	5-3/4	2-15/32	1-11/16	23.4
	12SC70-14	7	14SCH	10.000	21/32	6-1/2	2-15/32	1-11/16	21.3
	12SC78	7-3/4	12SCH-12SCHS	10.000	1-1/32	5-3/4	2-27/32	1-11/16	25.3
	12SC78-14	7-3/4	14SCH	10.000	1-1/32	6-1/2	2-27/32	1-11/16	23.4
	12SC100-14	10	14SCH	10.000	2-5/32	6-1/2	3-31/32	1-11/16	29.6
<b>13SC</b>	13SC78	7-3/4	13SCH-13SCHS	11.750	9/16	6-1/8	3-1/4	1-31/32	38.4
<b>14SC</b>	14SC78	7-3/4	14SCH	13.875	1/32	6-1/2	2-23/32	2-1/4	55.2

\* Flanges can be mixed to form different Between-Shaft Dimensions. See chart page F1 – 16. ■ Approximate weight for each flange.

Coupling Size	Hub Number	Max Bore	STOCK BORES *		Dimensions			Weight (lbs.) ■
			Plain Bore	Bore with Standard Keyseat & Set Screw	C <sub>2</sub>	H	Cap Screws Furnished	
<b>4JSC</b>	①	1-1/8	-	5/8 – 7/8 – 1 – 1-1/8* ①	1-1/16	2	-	-
<b>5SC</b>	<b>5SCH</b>	1-1/8	1/2	5/8 – 3/4 – 7/8 – 1 – 1-1/8	1-3/32	2	4 – 10 x 1-1/2	.8
<b>6SC</b>	<b>6SCH</b>	1-3/8	5/8	3/4 – 7/8 – 1 – 1-1/8 – 1-1/4 – 1-3/8	1-7/32	2-1/2	4 – 1/4 x 1-3/4	1.4
	<b>6SCHS</b>	7/8	-	7/8	31/32	2-1/2	4 – 1/4 x 1-1/2	1.1
<b>7SC</b>	<b>7SCH</b>	1-5/8	5/8	7/8 – 1 – 1-1/8 – 1-3/8 – 1-1/2 – 1-5/8	1-15/32	2-13/16	4 – 1/4 x 1-7/8	2.0
	<b>7SCHS</b>	7/8	-	7/8	1-3/32	2-13/16	4 – 1/4 x 1-1/2	1.5
<b>8SC</b>	<b>8SCH</b>	1-7/8	3/4	7/8 – 1 – 1-1/8 – 1-3/8 – 1-1/2 – 1-5/8 – 1-3/4 – 1-7/8	1-23/32	3-1/4	4 – 5/16 x 2-1/4	3.2
	<b>8SCHS</b>	7/8	-	7/8	1-7/32	3-1/4	4 – 5/16 x 1-3/4	2.0
<b>9SC</b>	<b>9SCH</b>	2-1/8	7/8	1 – 1-1/8 – 1-3/8 – 1-1/2 – 1-5/8 – 1-3/4 – 1-7/8 – 2-1/8	1-31/32	3-5/8	4 – 3/8 x 2-3/4	4.2
	<b>9SCHS</b>	1-1/2	-	1-1/8	1-17/32	3-5/8	4 – 3/8 x 2-1/4	3.7
<b>10SC</b>	<b>10SCH</b>	2-3/8	1-1/8	1-5/8 – 1-7/8 – 2-1/8 – 2-3/8	2-11/32	4-3/8	4 – 7/16 x 3-1/4	7.4
	<b>10SCHS</b>	1-5/8	-	1-1/8	1-21/32	4-3/8	4 – 7/16 x 2-1/2	5.5
<b>11SC</b>	<b>11SCH</b>	2-7/8	1-1/8	1-7/8 – 2-1/8 – 2-3/8 – 2-7/8	2-23/32	5-1/4	4 – 1/2 x 3-1/2	12.2
	<b>11SCHS</b>	1-7/8	-	1-1/8 – 1-5/8	1-29/32	5-1/4	4 – 1/2 x 2-3/4	9.3
<b>12SC</b>	<b>12SCH</b>	2-7/8	1-3/8	2-1/8 – 2-3/8 – 2-7/8	2-31/32	5-3/4	4 – 5/8 x 4	16.6
	<b>12SCHS</b>	2-1/2	-	2-3/8	2-17/32	5-3/4	4 – 5/8 x 3-1/2	14.1
<b>13SC</b>	<b>13SCH</b>	3-3/8	1-3/8	2-3/8 – 2-7/8 – 3-3/8	3-11/32	6-1/8	4 – 5/8 x 4-1/2	19.9
	<b>13SCHS</b>	2-1/2	-	2-1/8 – 2-3/8	2-15/32	6-1/8	4 – 5/8 x 3-1/2	16.0
<b>14SC</b>	<b>14SCH</b>	3-7/8	1-5/8	2-3/8 – 2-7/8 – 3-3/8 – 3-7/8	3-27/32	6-1/2	4 – 5/8 x 5	24.2

① FOR 4JSC the hub is an integral part of the flange. 4JSC x 1-1/8 has 1/4 x 1/16 shallow keyseat.

\* See page F1 – 10 for bore tolerances and page F1 – 13 for standard keyseat dimensions.

② If using 10SCHS hub, 7/16-14NC x 2-1/4 long capscrew needed (not furnished).

■ Approximate weight for each hub.