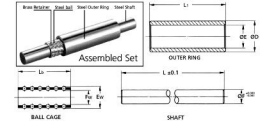




# MBA

## Bushings - Stroke Rotary - Miniature



2 to 12mm Shaft Sizes. Can operate in both linear and rotary directions at the same time.

Set includes outer ring, ball cage and shaft.

Ball Cage: Brass Balls: Hard Steel / Shaft: Hard Steel Outer Ring: Hard Steel.

Temperature: +100 °C (Constant), +120 °C (Maximum).

Stroke: = (L1 - Lb) x 2.

Supplied with extreme accuracy with zero to minimum preload.

This catalogue to be read in conjunction with information at [http://www.minibearings.com.au/ogue/tech/stroke\\_rotary/stsi\\_tech.pdf](http://www.minibearings.com.au/ogue/tech/stroke_rotary/stsi_tech.pdf)

### Bushings - Stroke Rotary - Miniature

Part Number	Shaft Diameter (F) mm	Outer Ring Bore Size (E) mm	Outer Ring Diameter (D) mm	Outer Ring Length (L1) mm	Max. Radial Runout on ØD	Basic Static Load Rating Co N	Ball Cage Bore (Fw) mm	Ball Cage Diameter (Ew) mm	Ball Cage Length (Lb) mm	Shaft Length (L) mm
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>
# STSI2151030	2.000	3.200	5.000 (+0.000/-0.0005)	15.00	0.01	21.60	2.00	3.20	10.00	30.00
	0.079	0.126		0.591			0.079	0.126	0.394	1.181
# STSI210520	2.000	3.200	5.000 (+0.000/-0.0005)	10.00	0.01	10.50	2.00	3.20	5.00	20.00
	0.079	0.126		0.394			0.079	0.126	0.197	0.787

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## Bushings - Stroke Rotary - Miniature

Part Number	Shaft Diameter (F) mm <i>inches</i>	Outer Ring Bore Size (E) mm <i>inches</i>	Outer Ring Diameter (D) mm <i>inches</i>	Outer Ring Length (L1) mm <i>inches</i>	Max. Radial Runout on ØD	Basic Static Load Rating Co N	Ball Cage Bore (Fw) mm <i>inches</i>	Ball Cage Diameter (Ew) mm <i>inches</i>	Ball Cage Length (Lb) mm <i>inches</i>	Shaft Length (L) mm <i>inches</i>
# STSI215530	2.000 <i>0.079</i>	3.200 <i>0.126</i>	5.000 (+0.000/-0.0005) <i>0.197</i>	15.00 <i>0.591</i>	0.01	10.50	2.00 <i>0.079</i>	3.20 <i>0.126</i>	5.00 <i>0.197</i>	30.00 <i>1.181</i>
# STSI3302060	3.000 <i>0.118</i>	5.000 <i>0.197</i>	7.000 (+0.000/-0.0006) <i>0.276</i>	30.00 <i>1.181</i>	0.01	76.90	3.00 <i>0.118</i>	5.00 <i>0.197</i>	20.00 <i>0.787</i>	60.00 <i>2.362</i>
# STSI3301060	3.000 <i>0.118</i>	5.000 <i>0.197</i>	7.000 (+0.000/-0.0006) <i>0.276</i>	30.00 <i>1.181</i>	0.01	38.40	3.00 <i>0.118</i>	5.00 <i>0.197</i>	10.00 <i>0.394</i>	60.00 <i>2.362</i>
# STSI3301560	3.000 <i>0.118</i>	5.000 <i>0.197</i>	7.000 (+0.000/-0.0006) <i>0.276</i>	30.00 <i>1.181</i>	0.01	57.70	3.00 <i>0.118</i>	5.00 <i>0.197</i>	15.00 <i>0.591</i>	60.00 <i>2.362</i>
# STSI3201050	3.000 <i>0.118</i>	5.000 <i>0.197</i>	7.000 (+0.000/-0.0006) <i>0.276</i>	20.00 <i>0.787</i>	0.01	38.40	3.00 <i>0.118</i>	5.00 <i>0.197</i>	10.00 <i>0.394</i>	50.00 <i>1.969</i>
# STSI3201550	3.000 <i>0.118</i>	5.000 <i>0.197</i>	7.000 (+0.000/-0.0006) <i>0.276</i>	20.00 <i>0.787</i>	0.01	57.70	3.00 <i>0.118</i>	5.00 <i>0.197</i>	15.00 <i>0.591</i>	50.00 <i>1.969</i>
# STSI4201550	4.000 <i>0.157</i>	6.000 <i>0.236</i>	8.000 (+0.000/-0.0006) <i>0.315</i>	20.00 <i>0.787</i>	0.01	89.30	4.00 <i>0.157</i>	6.00 <i>0.236</i>	15.00 <i>0.591</i>	50.00 <i>1.969</i>
# STSI4301560	4.000 <i>0.157</i>	6.000 <i>0.236</i>	8.000 (+0.000/-0.0006) <i>0.315</i>	30.00 <i>1.181</i>	0.01	89.30	4.00 <i>0.157</i>	6.00 <i>0.236</i>	15.00 <i>0.591</i>	60.00 <i>2.362</i>

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## Bushings - Stroke Rotary - Miniature

Part Number	Shaft Diameter (F) mm	Outer Ring Bore Size (E) mm	Outer Ring Diameter (D) mm	Outer Ring Length (L1) mm	Max. Radial Runout on ØD	Basic Static Load Rating Co N	Ball Cage Bore (Fw) mm	Ball Cage Diameter (Ew) mm	Ball Cage Length (Lb) mm	Shaft Length (L) mm
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>
# STSI4302060	4.000	6.000	8.000 (+0.000/-0.0006)	30.00	0.01	119.00	4.00	6.00	20.00	60.00
	<i>0.157</i>	<i>0.236</i>		<i>1.181</i>			<i>0.157</i>	<i>0.236</i>	<i>0.787</i>	<i>2.362</i>
# STSI4301060	4.000	6.000	8.000 (+0.000/-0.0006)	30.00	0.01	59.50	4.00	6.00	10.00	60.00
	<i>0.157</i>	<i>0.236</i>		<i>1.181</i>			<i>0.157</i>	<i>0.236</i>	<i>0.394</i>	<i>2.362</i>
# STSI4201050	4.000	6.000	8.000 (+0.000/-0.0006)	20.00	0.01	59.50	4.00	6.00	10.00	50.00
	<i>0.157</i>	<i>0.236</i>		<i>0.787</i>			<i>0.157</i>	<i>0.236</i>	<i>0.394</i>	<i>1.969</i>
# STSI5201050	5.000	7.000	10.000 (+0.000/-0.0006)	20.00	0.01	81.00	5.00	7.00	10.00	50.00
	<i>0.197</i>	<i>0.276</i>		<i>0.787</i>			<i>0.197</i>	<i>0.276</i>	<i>0.394</i>	<i>1.969</i>
# STSI5301580	5.000	7.000	10.000 (+0.000/-0.0006)	30.00	0.01	121.00	5.00	7.00	15.00	80.00
	<i>0.197</i>	<i>0.276</i>		<i>1.181</i>			<i>0.197</i>	<i>0.276</i>	<i>0.591</i>	<i>3.150</i>
# STSI5302050	5.000	7.000	10.000 (+0.000/-0.0006)	30.00	0.01	162.00	5.00	7.00	20.00	50.00
	<i>0.197</i>	<i>0.276</i>		<i>1.181</i>			<i>0.197</i>	<i>0.276</i>	<i>0.787</i>	<i>1.969</i>
# STSI5201550	5.000	7.000	10.000 (+0.000/-0.0006)	20.00	0.01	121.00	5.00	7.00	15.00	50.00
	<i>0.197</i>	<i>0.276</i>		<i>0.787</i>			<i>0.197</i>	<i>0.276</i>	<i>0.591</i>	<i>1.969</i>

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## Bushings - Stroke Rotary - Miniature

Part Number	Shaft Diameter (F) mm <i>inches</i>	Outer Ring Bore Size (E) mm <i>inches</i>	Outer Ring Diameter (D) mm <i>inches</i>	Outer Ring Length (L1) mm <i>inches</i>	Max. Radial Runout on ØD	Basic Static Load Rating Co N	Ball Cage Bore (Fw) mm <i>inches</i>	Ball Cage Diameter (Ew) mm <i>inches</i>	Ball Cage Length (Lb) mm <i>inches</i>	Shaft Length (L) mm <i>inches</i>
# STSI5301080	5.000 <i>0.197</i>	7.000 <i>0.276</i>	10.000 (+0.000/-0.0006) <i>1.181</i>	30.00 <i>1.181</i>	0.01	81.00	5.00 <i>0.197</i>	7.00 <i>0.276</i>	10.00 <i>0.394</i>	80.00 <i>3.150</i>
# STSI6301580	6.000 <i>0.236</i>	8.000 <i>0.315</i>	11.000 (+0.000/-0.0008) <i>1.181</i>	30.00 <i>1.181</i>	0.01	154.00	6.00 <i>0.236</i>	8.00 <i>0.315</i>	15.00 <i>0.591</i>	80.00 <i>3.150</i>
# STSI6301080	6.000 <i>0.236</i>	8.000 <i>0.315</i>	11.000 (+0.000/-0.0008) <i>1.181</i>	30.00 <i>1.181</i>	0.01	103.00	6.00 <i>0.236</i>	8.00 <i>0.315</i>	10.00 <i>0.394</i>	80.00 <i>3.150</i>
# STSI6201550	6.000 <i>0.236</i>	8.000 <i>0.315</i>	11.000 (+0.000/-0.0008) <i>0.787</i>	20.00 <i>0.787</i>	0.01	154.00	6.00 <i>0.236</i>	8.00 <i>0.315</i>	15.00 <i>0.591</i>	50.00 <i>1.969</i>
# STSI6402080	6.000 <i>0.236</i>	8.000 <i>0.315</i>	11.000 (+0.000/-0.0008) <i>1.575</i>	40.00 <i>1.575</i>	0.01	206.00	6.00 <i>0.236</i>	8.00 <i>0.315</i>	20.00 <i>0.787</i>	80.00 <i>3.150</i>
# STSI6201050	6.000 <i>0.236</i>	8.000 <i>0.315</i>	11.000 (+0.000/-0.0008) <i>0.787</i>	20.00 <i>0.787</i>	0.01	103.00	6.00 <i>0.236</i>	8.00 <i>0.315</i>	10.00 <i>0.394</i>	50.00 <i>1.969</i>
# STSI6302050	6.000 <i>0.236</i>	8.000 <i>0.315</i>	11.000 (+0.000/-0.0008) <i>1.181</i>	30.00 <i>1.181</i>	0.01	206.00	6.00 <i>0.236</i>	8.00 <i>0.315</i>	20.00 <i>0.787</i>	50.00 <i>1.969</i>

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## Bushings - Stroke Rotary - Miniature

Part Number	Shaft Diameter (F) mm	Outer Ring Bore Size (E) mm	Outer Ring Diameter (D) mm	Outer Ring Length (L1) mm	Max. Radial Runout on ØD	Basic Static Load Rating Co N	Ball Cage Bore (Fw) mm	Ball Cage Diameter (Ew) mm	Ball Cage Length (Lb) mm	Shaft Length (L) mm
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>
# STSI6401080	6.000	8.000	11.000 (+0.000/-0.0008)	40.00	0.01	103.00	6.00	8.00	10.00	80.00
	<i>0.236</i>	<i>0.315</i>		<i>1.575</i>			<i>0.236</i>	<i>0.315</i>	<i>0.394</i>	<i>3.150</i>
# STSI6401580	6.000	8.000	11.000 (+0.000/-0.0008)	40.00	0.01	154.00	6.00	8.00	15.00	80.00
	<i>0.236</i>	<i>0.315</i>		<i>1.575</i>			<i>0.236</i>	<i>0.315</i>	<i>0.591</i>	<i>3.150</i>
# STSI8402080	8.000	10.000	13.000 (+0.000/-0.0008)	40.00	0.01	209.00	8.00	10.00	20.00	80.00
	<i>0.315</i>	<i>0.394</i>		<i>1.575</i>			<i>0.315</i>	<i>0.394</i>	<i>0.787</i>	<i>3.150</i>
# STSI8401080	8.000	10.000	13.000 (+0.000/-0.0008)	40.00	0.01	105.00	8.00	10.00	10.00	90.00
	<i>0.315</i>	<i>0.394</i>		<i>1.575</i>			<i>0.315</i>	<i>0.394</i>	<i>0.394</i>	<i>3.543</i>
# STSI8302050	8.000	10.000	13.000 (+0.000/-0.0008)	30.00	0.01	209.00	8.00	10.00	20.00	50.00
	<i>0.315</i>	<i>0.394</i>		<i>1.181</i>			<i>0.315</i>	<i>0.394</i>	<i>0.787</i>	<i>1.969</i>
# STSI8201050	8.000	10.000	13.000 (+0.000/-0.0008)	20.00	0.01	105.00	8.00	10.00	10.00	50.00
	<i>0.315</i>	<i>0.394</i>		<i>0.787</i>			<i>0.315</i>	<i>0.394</i>	<i>0.394</i>	<i>1.969</i>
# STSI8401580	8.000	10.000	13.000 (+0.000/-0.0008)	40.00	0.01	157.00	8.00	10.00	15.00	90.00
	<i>0.315</i>	<i>0.394</i>		<i>1.575</i>			<i>0.315</i>	<i>0.394</i>	<i>0.591</i>	<i>3.543</i>

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## Bushings - Stroke Rotary - Miniature

Part Number	Shaft Diameter (F) mm	Outer Ring Bore Size (E) mm	Outer Ring Diameter (D) mm	Outer Ring Length (L1) mm	Max. Radial Runout on ØD	Basic Static Load Rating Co N	Ball Cage Bore (Fw) mm	Ball Cage Diameter (Ew) mm	Ball Cage Length (Lb) mm	Shaft Length (L) mm
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>
# STSI8301080	8.000	10.000	13.000 (+0.000/-0.0008)	30.00	0.01	105.00	8.00	10.00	10.00	80.00
	<i>0.315</i>	<i>0.394</i>		<i>1.181</i>			<i>0.315</i>	<i>0.394</i>	<i>0.394</i>	<i>3.150</i>
# STSI8301580	8.000	10.000	13.000 (+0.000/-0.0008)	30.00	0.01	157.00	8.00	10.00	15.00	80.00
	<i>0.315</i>	<i>0.394</i>		<i>1.181</i>			<i>0.315</i>	<i>0.394</i>	<i>0.591</i>	<i>3.150</i>
# STSI10201580	10.000	12.000	18.000 (+0.000/-0.0008)	20.00	0.01	191.00	10.00	12.00	15.00	80.00
	<i>0.394</i>	<i>0.472</i>		<i>0.787</i>			<i>0.394</i>	<i>0.472</i>	<i>0.591</i>	<i>3.150</i>
# STSI104315A	10.000	12.000	18.000 (+0.000/-0.0008)	43.00	0.01	191.00	10.00	12.00	15.00	100.00
	<i>0.394</i>	<i>0.472</i>		<i>1.693</i>			<i>0.394</i>	<i>0.472</i>	<i>0.591</i>	<i>3.937</i>
# STSI10432580	10.000	12.000	18.000 (+0.000/-0.0008)	43.00	0.01	318.00	10.00	12.00	25.00	80.00
	<i>0.394</i>	<i>0.472</i>		<i>1.693</i>			<i>0.394</i>	<i>0.472</i>	<i>0.984</i>	<i>3.150</i>
# STSI10301580	10.000	12.000	18.000 (+0.000/-0.0008)	30.00	0.01	191.00	10.00	12.00	15.00	80.00
	<i>0.394</i>	<i>0.472</i>		<i>1.181</i>			<i>0.394</i>	<i>0.472</i>	<i>0.591</i>	<i>3.150</i>
# STSI104320A	10.000	12.000	18.000 (+0.000/-0.0008)	43.00	0.01	254.00	10.00	12.00	20.00	100.00
	<i>0.394</i>	<i>0.472</i>		<i>1.693</i>			<i>0.394</i>	<i>0.472</i>	<i>0.787</i>	<i>3.937</i>

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## Bushings - Stroke Rotary - Miniature

Part Number	Shaft Diameter (F) mm	Outer Ring Bore Size (E) mm	Outer Ring Diameter (D) mm	Outer Ring Length (L1) mm	Max. Radial Runout on ØD	Basic Static Load Rating Co N	Ball Cage Bore (Fw) mm	Ball Cage Diameter (Ew) mm	Ball Cage Length (Lb) mm	Shaft Length (L) mm
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>
# STS1124020A	12.000	14.000	20.000 (+0.000/-0.0009)	40.00	0.01	341.00	12.00	14.00	20.00	100.00
	<i>0.472</i>	<i>0.551</i>		<i>1.575</i>			<i>0.472</i>	<i>0.551</i>	<i>0.787</i>	<i>3.937</i>
# STS112352080	12.000	14.000	20.000 (+0.000/-0.0009)	35.00	0.01	341.00	12.00	14.00	20.00	80.00
	<i>0.472</i>	<i>0.551</i>		<i>1.378</i>			<i>0.472</i>	<i>0.551</i>	<i>0.787</i>	<i>3.150</i>
# STS112252080	12.000	14.000	20.000 (+0.000/-0.0009)	25.00	0.01	341.00	12.00	14.00	20.00	80.00
	<i>0.472</i>	<i>0.551</i>		<i>0.984</i>			<i>0.472</i>	<i>0.551</i>	<i>0.787</i>	<i>3.150</i>
# STS112403080	12.000	14.000	20.000 (+0.000/-0.0009)	40.00	0.01	512.00	12.00	14.00	30.00	80.00
	<i>0.472</i>	<i>0.551</i>		<i>1.575</i>			<i>0.472</i>	<i>0.551</i>	<i>1.181</i>	<i>3.150</i>
# STS112302580	12.000	14.000	20.000 (+0.000/-0.0009)	30.00	0.01	427.00	12.00	14.00	25.00	80.00
	<i>0.472</i>	<i>0.551</i>		<i>1.181</i>			<i>0.472</i>	<i>0.551</i>	<i>0.984</i>	<i>3.150</i>
# STS112352580	12.000	14.000	20.000 (+0.000/-0.0009)	35.00	0.01	427.00	12.00	14.00	25.00	80.00
	<i>0.472</i>	<i>0.551</i>		<i>1.378</i>			<i>0.472</i>	<i>0.551</i>	<i>0.984</i>	<i>3.150</i>
# STS112302080	12.000	14.000	20.000 (+0.000/-0.0009)	30.00	0.01	341.00	12.00	14.00	20.00	80.00
	<i>0.472</i>	<i>0.551</i>		<i>1.181</i>			<i>0.472</i>	<i>0.551</i>	<i>0.787</i>	<i>3.150</i>

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## Bushings - Stroke Rotary - Miniature

Part Number	Shaft Diameter (F) mm	Outer Ring Bore Size (E) mm	Outer Ring Diameter (D) mm	Outer Ring Length (L1) mm	Max. Radial Runout on ØD	Basic Static Load Rating Co N	Ball Cage Bore (Fw) mm	Ball Cage Diameter (Ew) mm	Ball Cage Length (Lb) mm	Shaft Length (L) mm
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>
# STS112353080	12.000	14.000	20.000 (+0.000/-0.0009)	35.00	0.01	512.00	12.00	14.00	30.00	80.00
	<i>0.472</i>	<i>0.551</i>		<i>1.378</i>			<i>0.472</i>	<i>0.551</i>	<i>1.181</i>	<i>3.150</i>
# STS112402580	12.000	14.000	20.000 (+0.000/-0.0009)	40.00	0.01	427.00	12.00	14.00	25.00	80.00
	<i>0.472</i>	<i>0.551</i>		<i>1.575</i>			<i>0.472</i>	<i>0.551</i>	<i>0.984</i>	<i>3.150</i>

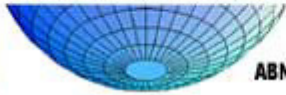
# Indicates item not stocked at time of printing - Please enquire for lead time

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MBA Size Listings are a guide to sizes only and must not be solely relied on for critical design information.

# MBA

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