

Rotary Shafts

-Standard-



Mostly used as drive shafts in rotary motion applications. Available in 1045 carbon steel and 304 stainless steel. Choose from a wide variety of modifications. Simply add the modification ordering code to the end of the part number. The overall length can be specified with 0.01" increments. MISUMI's Rotary Shafts are delivered with complete shaft end machining, fine surface finish, and can fit into your system right out of the box.

Material	Surface Treatment	Type
1045 Steel	Black Oxide	U-SFR
	Electroless Nickel Plating	U-PSFR
304 Stainless Steel	-	U-SSFR

Material Characteristics **P.628, 629**

Tolerance of L and Y **P.203**
General Tolerance
Unless otherwise specified use the table below.

From	To	Tolerance
0.000	5.000	+0.01
5.001	16.000	+0.02
16.001	60.000	+0.05

Surface Roughness: Unless otherwise specified **P.203**
Circularity, Straightness, Perpendicularity and Concentricity **P.203**

Type	Part No.				L Choose in 0.01" Increments
	Callout	Nominal	Tolerance		
U-SFR U-PSFR U-SSFR	0.13	1/8	0.1249	0.1246	0.75 ~ 6.00
	0.19	3/16	0.1874	0.1871	0.75 ~ 10.00
	0.25	1/4	0.2498	0.2494	0.75 ~ 12.00
	0.38	3/8	0.3748	0.3744	0.75 ~ 20.00
	0.50	1/2	0.4998	0.4994	1.00 ~ 24.00
	0.63	5/8	0.6248	0.6244	1.50 ~ 26.00
	0.75	3/4	0.7497	0.7492	1.75 ~ 30.00
	1.00	1"	0.9997	0.9992	2.00 ~ 30.00
	1.25	1-1/4	1.2496	1.2490	2.50 ~ 30.00
	1.50	1-1/2	1.4996	1.4990	3.50 ~ 30.00

Order Example The part number consists only of the fields with blue characters.

Part No. **L**

Type **D**

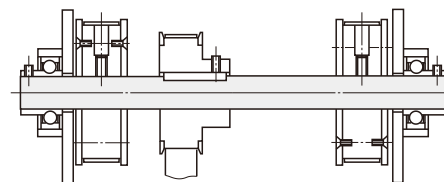
U-SFR 1.00 - L 20.00

Days to Ship

Standard **6** Days **Non-Returnable P.30**

Express **4** Days (Specify Express **A**) \$ 8.00/piece **P.30**

A flat charge of \$21.60 for 3 or more identical pieces.



Optional Modifications

Part No. **L** (Ordering Code) (SC, WKC, KFC...etc)

Type **D**

U-SFR 1.00 - L 20.00 - **KC 2.00 - A 0.50**

Optional Modifications	Key Groove	Set Screw Flat	Two Set Screw Flats at Angle	Wrench Flats																																																																									
	<ul style="list-style-type: none"> 1 Key Groove: KC 2 Key Grooves: WKC 	<ul style="list-style-type: none"> Set Screw Flat: FC Two Set Screw Flats: WFC 																																																																											
Ordering Code	KC, WKC	FC, WFC	KFC	SC																																																																									
Details	<p>Example KC2.00-A0.50</p> <p>KC: Adds one key groove. WKC: Adds two key grooves.</p> <ul style="list-style-type: none"> KC, A, WKC, C, K, E = 0.01" Increments A, C, E ≤ 4.00 D = 0.13, 0.19, 0.25 are not available Key Groove Dimensions: Please refer to specifications on P.204. When 3 key grooves are required, please use both KC and WKC. Please see P.204. 	<p>Example FC1.00-G0.13</p> <p>FC: Adds one set screw flat. WFC: Adds two set screw flats.</p> <ul style="list-style-type: none"> FC, G, WFC, J, W, V = 0.01" Increments 0.01 ≤ G, J, V ≤ 2.00 FC, WFC, W = 0 or FC, WFC, W ≥ 0.02 <table border="1"> <thead> <tr> <th colspan="2">D</th> <th>H</th> </tr> <tr> <th>From</th> <th>To</th> <th></th> </tr> </thead> <tbody> <tr> <td>0.13</td> <td>0.19</td> <td>0.02</td> </tr> <tr> <td>0.25</td> <td>0.63</td> <td>0.04</td> </tr> <tr> <td>0.75</td> <td>1.50</td> <td>0.08</td> </tr> </tbody> </table>	D		H	From	To		0.13	0.19	0.02	0.25	0.63	0.04	0.75	1.50	0.08	<p>Example KFC1.00-G0.13-AG120</p> <p>Adds a flat at the base face (0°), and another at the designated angle.</p> <ul style="list-style-type: none"> KFC, G = 0.01" Increments AG = 15° Increments 0.01 ≤ G ≤ 2.00 KFC = 0 or KFC ≥ 0.02 <table border="1"> <thead> <tr> <th colspan="2">D</th> <th colspan="2">W</th> </tr> <tr> <th>From</th> <th>To</th> <th></th> <th>H</th> </tr> </thead> <tbody> <tr> <td>0.13</td> <td>0.19</td> <td>0.02</td> <td></td> </tr> <tr> <td>0.25</td> <td>0.63</td> <td>0.04</td> <td></td> </tr> <tr> <td>0.75</td> <td>1.50</td> <td>0.08</td> <td></td> </tr> </tbody> </table>	D		W		From	To		H	0.13	0.19	0.02		0.25	0.63	0.04		0.75	1.50	0.08		<p>Example SC1.00</p> <p>Adds wrench flats.</p> <ul style="list-style-type: none"> SC = 0.01" Increments SC + δ_2 ≤ L SC = 0 or SC ≥ 0.05 D = 0.13, 0.19 not available <table border="1"> <thead> <tr> <th rowspan="2">D</th> <th colspan="2">W</th> <th rowspan="2">δ_2</th> </tr> <tr> <th>Wrench Size</th> <th>Actual</th> </tr> </thead> <tbody> <tr> <td>0.25</td> <td>3/16</td> <td>0.188</td> <td>0.31</td> </tr> <tr> <td>0.38</td> <td>5/16</td> <td>0.313</td> <td>0.31</td> </tr> <tr> <td>0.50</td> <td>7/16</td> <td>0.438</td> <td>0.38</td> </tr> <tr> <td>0.63</td> <td>9/16</td> <td>0.563</td> <td>0.38</td> </tr> <tr> <td>0.75</td> <td>11/16</td> <td>0.688</td> <td>0.50</td> </tr> <tr> <td>1.00</td> <td>7/8</td> <td>0.875</td> <td>0.50</td> </tr> <tr> <td>1.25</td> <td>1-1/8</td> <td>1.125</td> <td>0.50</td> </tr> <tr> <td>1.50</td> <td>1-3/8</td> <td>1.375</td> <td>0.63</td> </tr> </tbody> </table>	D	W		δ_2	Wrench Size	Actual	0.25	3/16	0.188	0.31	0.38	5/16	0.313	0.31	0.50	7/16	0.438	0.38	0.63	9/16	0.563	0.38	0.75	11/16	0.688	0.50	1.00	7/8	0.875	0.50	1.25	1-1/8	1.125	0.50	1.50	1-3/8	1.375	0.63
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\$ Price Adder	KC: 4.00 WKC: 8.00	FC: 2.00 WFC: 4.00	6.00	4.00																																																																									

When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".



Price

Quantity	Quantity Discount Rate			
	1	2-4	5-19	20-
Rate	-	5%	10%	15%

For larger quantity orders "Days to Ship" may differ from published catalog term. **P.29**

Part No.	\$ Unit Price									
	Type	D	Min. L	L2.01	L4.01	L6.01	L8.01	L12.01	L16.01	L24.01
U-SFR		0.13	4.70	5.60	6.50	-	-	-	-	-
		0.19	4.70	5.60	6.50	7.00	7.80	-	-	-
		0.25	5.60	6.20	7.00	7.70	10.90	-	-	-
		0.38	5.60	6.20	7.00	7.70	10.90	12.40	14.30	-
		0.50	6.50	7.50	7.90	8.50	11.60	13.30	18.20	-
		0.63	7.00	8.10	8.70	9.10	12.50	14.40	19.60	22.90
		0.75	7.80	10.00	10.30	11.40	15.90	17.80	23.90	28.50
		1.00	9.40	11.70	13.30	14.70	18.10	22.10	29.90	35.20
		1.25	-	12.50	14.40	15.90	20.90	24.40	32.20	39.30
		1.50	-	18.90	21.10	23.30	31.20	38.20	51.10	61.10
U-PSFR		0.13	5.20	6.20	7.20	-	-	-	-	-
		0.19	5.20	6.20	7.20	7.90	8.80	-	-	-
		0.25	6.20	7.20	8.10	8.80	12.10	-	-	-
		0.38	6.20	7.20	8.10	8.80	12.10	13.80	15.70	-
		0.50	7.00	8.30	8.60	9.50	12.70	14.60	20.50	-
		0.63	7.70	9.00	9.20	10.30	13.80	15.70	22.40	25.20
		0.75	9.20	11.60	12.20	13.50	18.30	20.90	27.40	41.30
		1.00	11.30	14.00	15.60	17.40	22.80	25.90	33.80	42.90
		1.25	-	15.00	16.80	18.60	24.30	27.60	39.00	44.20
		1.50	-	21.80	24.10	26.80	35.40	43.30	56.90	69.20
U-SSFR		0.13	6.00	7.00	8.30	-	-	-	-	-
		0.19	6.00	7.00	8.30	9.10	10.00	-	-	-
		0.25	6.90	7.70	8.70	9.50	14.30	-	-	-
		0.38	6.90	7.70	8.70	9.50	14.30	15.90	17.70	-
		0.50	8.10	9.50	9.90	10.90	15.70	17.40	22.00	-
		0.63	8.80	10.30	10.70	11.80	17.00	19.00	23.90	30.20
		0.75	9.50	11.90	12.20	13.00	19.00	21.10	29.60	42.30
		1.00	11.60	14.40	16.70	18.30	23.40	26.60	40.80	45.80
		1.25	-	15.00	17.00	18.90	26.40	30.00	47.60	48.10
		1.50	-	23.70	26.70	29.60	41.90	47.60	67.00	76.20

Express Options **P.30**

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