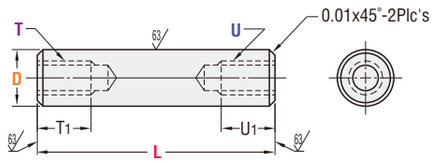
Rotary Shafts
–Both Ends Tapped–

Mostly used as drive or idler 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-SFRW
	Electroless Nickel Plating	U-PSFRW
304 Stainless Steel	-	U-SSFRW

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

Thread or hole location tolerance: ±0.005° non-cumulative.

Surface Roughness:Unless otherwise specified 250

Circularity, Straightness, Perpendicularity and Concentricity P.203

Type	D Callout	D Nominal	D Tolerance		L Choose in 0.01" Increments	T, U Thread Selection (Callout) #5-40	#6-32	#8-32	#10-32	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10
U-SFRW U-PSFRW U-SSFRW	0.25	1/4	0.2498	0.2494	0.75 ~ 12.00	5									
	0.38	3/8	0.3748	0.3744	0.75 ~ 20.00		6	8	10						
	0.50	1/2	0.4998	0.4994	1.00 ~ 24.00				10	0.25	0.31				
	0.63	5/8	0.6248	0.6244	1.50 ~ 26.00					0.25	0.31	0.38			
	0.75	3/4	0.7497	0.7492	1.75 ~ 30.00						0.31	0.38			
	1.00	1"	0.9997	0.9992	2.00 ~ 30.00							0.38	0.50	0.63	
	1.25	1-1/4	1.2496	1.2490	2.50 ~ 30.00								0.50	0.63	0.75
	1.50	1-1/2	1.4996	1.4990	3.50 ~ 30.00									0.63	0.75

Order Example

The part number consists only of the fields with blue characters. Please refer to the table below for technical information.

Part No. – L – T – U
Type D
U-SFRW 1.00 — L 20.00 — T 0.50 — U 0.63

Technical Information

T, U (Thread) Callout	Thread Size	Diameter	T1, U1 Thread Depth
5	#5-40	0.125	0.25
6	#6-32	0.138	0.28
8	#8-32	0.164	0.33
10	#10-32	0.190	0.38
0.25	1/4-20	0.250	0.50
0.31	5/16-18	0.313	0.63
0.38	3/8-16	0.375	0.75
0.50	1/2-13	0.500	1.00
0.63	5/8-11	0.625	1.25
0.75	3/4-10	0.750	1.50

Selection Criteria: L ≥ T1 + U1

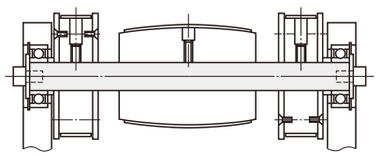
Days to Ship

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.

Example



Optional Modifications

Part No. – L – T – U – (Ordering Code) (SC, LKC, FC···etc)
Type D
U-SFRW 1.00 — L 20.125 — T 0.50 — U 0.63 — SC 1.00 — LKC

Optional Modifications	Key Groove	Set Screw Flat	Two Set Screw Flats at Angle	Wrench Flats	Length Tolerance
	•1 Key Groove: KC •2 Key Grooves: WKC	•Set Screw Flat: FC •Two Set Screw Flats: WFC			
Ordering Code	KC, WKC	FC, WFC	KFC	SC	LKC
Details	Example KC2.00-A0.50 KC: Adds one key groove. WKC: Adds two key grooves. KC, A, WKC, C, K, E = 0.01" Increments A, C, E ≤ 4.00 D = 0.25 is 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.	Example FC1.00-G0.13 KC: Adds one set screw flat. WKC: Adds two set screw flats. 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 D: From 0.25 To 0.63 H 0.04; From 0.75 To 1.50 H 0.08	Example KFC1.00-G0.13-AG120 Adds a flat at the base face (0°), and another at the designated angle. KFC, G = 0.01" Increments AG = 15° Increments 0.01 ≤ G ≤ 2.00 KFC = 0 or KFC ≥ 0.02 D: From 0.25 To 0.63 H 0.04; From 0.75 To 1.50 H 0.08	Example SC1.00 Adds wrench flats. SC = 0.01" Increments SC + ℓ2 ≤ L SC = 0 or SC ≥ 0.05 D: 0.25 W Wrench Size 3/16 Actual 0.188 ℓ2 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	Example LKC Changes the length tolerance. If the LKC is used, 0.001" Increments can be specified for L dimension. Please refer to order example. L From 0.750 To 12.000 Tolerance ± 0.002; 12.001 24.000 ± 0.004; 24.001 30.000 ± 0.006
$ Price Adder	KC: 4.00 WKC: 8.00	FC: 2.00 WFC: 4.00	6.00	4.00	4.00

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

Price

Quantity Discount Rate

Quantity	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. Type	D	$ Unit Price Min. L ≥ 2.00	L2.01 ≥ 4.00	L4.01 ≥ 6.00	L6.01 ≥ 8.00	L8.01 ≥ 12.00	L12.01 ≥ 16.00	L16.01 ≥ 24.00	L24.01 ≥ 30.00
U-SFRW	0.25	8.00	8.90	10.10	11.00	15.50	-	-	-
	0.38	8.00	8.90	10.10	11.00	15.50	17.60	20.30	-
	0.50	9.00	10.50	11.30	11.90	16.40	18.80	25.70	-
	0.63	9.90	11.60	12.20	12.90	17.70	20.30	27.80	32.40
	0.75	11.10	14.10	14.60	16.20	22.40	25.10	33.80	40.10
	1.00	13.20	16.50	18.60	20.70	25.50	31.20	42.20	49.80
	1.25	-	17.70	20.30	22.40	29.60	34.50	45.60	55.40
	1.50	-	26.70	29.70	32.90	44.00	54.00	72.30	86.40
U-PSFRW	0.25	8.90	10.20	11.60	12.50	17.00	-	-	-
	0.38	8.90	10.20	11.60	12.50	17.00	19.70	22.20	-
	0.50	10.10	11.70	12.20	13.40	18.20	20.60	29.10	-
	0.63	10.80	12.80	13.10	14.60	19.70	22.40	31.70	35.60
	0.75	13.10	16.40	17.10	19.20	26.10	29.60	38.70	54.60
	1.00	15.90	19.80	22.10	24.60	32.10	36.60	47.90	60.50
	1.25	-	21.20	23.70	26.40	34.50	39.00	54.90	62.60
	1.50	-	30.90	34.10	37.80	50.00	61.10	80.40	97.80
U-SSFRW	0.25	11.70	13.00	14.80	16.00	24.30	-	-	-
	0.38	11.70	13.00	14.80	16.00	24.30	27.00	30.10	-
	0.50	13.90	16.00	16.70	18.50	26.60	29.70	37.30	-
	0.63	14.90	17.50	18.20	20.20	28.80	32.00	40.50	51.10
	0.75	15.50	19.40	19.80	21.20	31.30	34.40	48.10	58.10
	1.00	17.10	21.20	24.30	26.80	34.40	43.40	66.80	74.90
	1.25	-	25.40	28.60	31.90	44.80	51.10	80.80	81.50
	1.50	-	40.10	45.40	50.20	71.10	80.80	113.40	129.20