



Precision Linear Shafts –Both Ends Tapped–




Precision Linear Shafts match most common U.S. standards for O.D. tolerance as well as material, hardness and plating specifications. Case Hardened Steel shafts may be used with typical linear bearing applications. The 440 stainless steel shafts are suitable for cleanroom environment or when introduced to rough conditions such as high humidity or unstable temperatures.



One of our most significant advantages is the ability to designate the shaft length without a cutting charge. Use shaft modifications when additional tolerance control factors, such as more precise length tolerance are required. Additional features like wrench flats can also be selected. Simply add the modification ordering code to the end of the part number.

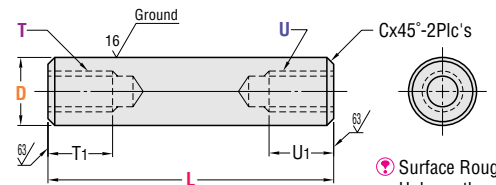


☐ : New Price



Length Selection	Material	Heat Treatment	Surface Treatment	Type
Standard Length	Case Hardened Steel	Induction Hardening* 60HRC~	—	U-SFJWS
	440C Stainless Steel	Induction Hardening* 56HRC~	Hard Chrome Plating** 750HV	U-PSFJWS
Configurable Length	Case Hardened Steel	Induction Hardening* 58HRC~	—	U-SFJW
	440C Stainless Steel	Induction Hardening* 56HRC~	Hard Chrome Plating** 750HV	U-PSFJW

*Hardening Depth and **Plating Thickness **P.38**
 Ⓢ Material Characteristics **P.628, 629**



Length Tolerance **P.38**
 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 **P.38**
 Ⓢ Circularity, Straightness, Perpendicularity and Concentricity **P.38**

Standard Length

Type	Part No. D (Class L)			L Selection						T, U	C
	Callout	Nominal	Tolerance	2.00	4.00	6.00	7.00	10.00	12.00		
U-SFJWS	0.25	1/4	0.2495 0.2490	2.00	4.00	6.00	7.00	10.00	12.00	#5-40	0.015
	0.38	3/8	0.3745 0.3740	2.00	4.00	6.00	7.00	10.00	12.00	#10-32	0.015
U-PSFJWS	0.50	1/2	0.4995 0.4990	2.00	4.00	6.00	7.00	10.00	12.00	1/4-20	0.015
U-SSFJWS	0.75	3/4	0.7495 0.7490	2.00	4.00	6.00	7.00	10.00	12.00	5/16-18	0.015
	1.00	1"	0.9995 0.9990	2.00	4.00	6.00	7.00	10.00	12.00	3/8-16	0.030

Configurable Length

Type	Part No. D (Class L)			Choose in L 0.01" Increments	Thread Selection (Callout) T, U								C		
	Callout	Nominal	Tolerance		#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-SFJW	0.25	1/4	0.2495 0.2490	0.75 ~ 24.00	5										0.015
	0.38	3/8	0.3745 0.3740	0.75 ~ 32.00	5	6	8	10							0.015
U-PSFJW	0.50	1/2	0.4995 0.4990	1.00 ~ 36.00		6	8	10	0.25						0.015
	0.63	5/8	0.6245 0.6240	1.00 ~ 36.00		8	10	0.25	0.31						0.015
U-SSFJW	0.75	3/4	0.7495 0.7490	1.25 ~ 48.00		8	10	0.25	0.31	0.38					0.015
	1.00	1"	0.9995 0.9990	1.25 ~ 48.00		8	10	0.25	0.31	0.38	0.50				0.030
	1.25	1-1/4	1.2495 1.2470	1.50 ~ 60.00				0.25	0.31	0.38	0.50	0.63	0.75		0.030
	1.50	1-1/2	1.4994 1.4989	2.00 ~ 60.00						0.38	0.50	0.63	0.75	1.00	0.030

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-SFJW 0.75 — L4.25 — T0.38 — U10

U-SFJWS 0.25 — L7.00

Technical Information

Selection Criteria: Ⓢ Required overall length L: L≥T1+U1

T, U (Thread)		T1, U1	
Callout	Thread Size	Thread Diameter	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
1.00	1-8	1.000	2.00



Days to Ship

Standard Length (U-SFJWS, U-PSFJWS, U-SSFJWS)

1 Day

Configurable Length (U-SFJW, U-PSFJW, U-SSFJW)

3 Days Ⓢ Non-Returnable **P.30**

Express

0 Days (Specify Express T) \$16.00/piece

1 Day (Specify Express A) \$8.00/piece **P.30**

Ⓢ A flat charge of \$21.60 for 3 or more identical pieces. (Express A only)



Optional Modifications
Part No. — L — T — U — (Ordering Code) (SC, LKC, WSC)
Type D
U-SFJW 0.75 — L 4.125 — T0.38 — U10 — LKC

Optional Modifications	L Tolerance	Wrench Flats Added	Two Wrench Flats Added																																																																										
Ordering Code	LKC	SC	WSC																																																																										
Details	Example LKC Adds wrench flats. Ⓢ L<20.00 → L±0.002 Ⓢ L≥20.00 → L±0.004 Ⓢ If LKC is used, 0.001" Increments can be specified for length (L) dimension. Ⓢ Please refer to order example.	Example SC0.25 Adds two wrench flats. Ⓢ SC=0.01" Increments Ⓢ SC+ℓ ≤ L Ⓢ SC=0 or SC≥0.05	Example WSC0.25-X0.25 Adds two wrench flats. Ⓢ WSC, X = 0.01" Increments Ⓢ WSC+X+ℓ 1x2<L Ⓢ WSC=0 or WSC≥0.05 Ⓢ X= 0 or X≥0.05 Ⓢ Positioning of the wrench flats will not be on the same plane.																																																																										
	<table border="1"> <thead> <tr> <th rowspan="2">D</th> <th colspan="2">W</th> <th rowspan="2">ℓ1</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>0.38</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>1/2</td><td>0.500</td><td>0.38</td></tr> <tr><td>0.75</td><td>5/8</td><td>0.625</td><td>0.38</td></tr> <tr><td>1.00</td><td>7/8</td><td>0.875</td><td>0.38</td></tr> <tr><td>1.25</td><td>1-1/8</td><td>1.125</td><td>0.38</td></tr> <tr><td>1.50</td><td>1-3/8</td><td>1.375</td><td>0.75</td></tr> </tbody> </table>	D	W		ℓ1	Wrench Size	Actual	0.25	3/16	0.188	0.31	0.38	5/16	0.313	0.38	0.50	7/16	0.438	0.38	0.63	1/2	0.500	0.38	0.75	5/8	0.625	0.38	1.00	7/8	0.875	0.38	1.25	1-1/8	1.125	0.38	1.50	1-3/8	1.375	0.75	<table border="1"> <thead> <tr> <th rowspan="2">D</th> <th colspan="2">W</th> <th rowspan="2">ℓ1</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>0.38</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>1/2</td><td>0.500</td><td>0.38</td></tr> <tr><td>0.75</td><td>5/8</td><td>0.625</td><td>0.38</td></tr> <tr><td>1.00</td><td>7/8</td><td>0.875</td><td>0.38</td></tr> <tr><td>1.25</td><td>1-1/8</td><td>1.125</td><td>0.38</td></tr> <tr><td>1.50</td><td>1-3/8</td><td>1.375</td><td>0.75</td></tr> </tbody> </table>	D	W		ℓ1	Wrench Size	Actual	0.25	3/16	0.188	0.31	0.38	5/16	0.313	0.38	0.50	7/16	0.438	0.38	0.63	1/2	0.500	0.38	0.75	5/8	0.625	0.38	1.00	7/8	0.875	0.38	1.25	1-1/8	1.125	0.38	1.50	1-3/8	1.375
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\$ Price Adder	4.00	4.00	8.00																																																																										

Ⓢ When using Optional Modifications, add the "Price Adder" to the standard "Unit Price". Ⓢ Optional Modifications do not apply to Standard Length Shafts



Quantity Discount Rate

Quantity	1	2-4	5-19	20~
Rate(1day)	Price List	2%	3%	5%
Rate(3days)	Price List	5%	15%	20%

Ⓢ Prices below include Set-Up Changes

Standard Length

Part No.	Type	D	\$ Unit Price					
			L2.00	L4.00	L6.00	L7.00	L10.00	L12.00
U-SFJWS	0.25	5.10	8.30	11.60	14.80	-	-	
	0.38	4.80	7.40	9.80	12.40	14.80	-	
	0.50	5.10	8.80	12.50	16.20	19.80	-	
	0.75	5.40	9.30	13.20	17.10	21.00	21.00	
	1.00	6.10	10.30	14.50	18.80	22.90	22.90	
	1.50	6.60	11.00	15.30	19.70	-	-	
U-PSFJWS	0.50	6.60	10.10	13.50	17.00	20.50	-	
	0.75	7.10	12.10	17.20	22.30	27.40	-	
	1.00	7.40	12.80	18.20	23.60	29.00	29.00	
U-SSFJWS	0.50	8.30	14.50	20.70	26.90	33.00	-	
	0.75	8.80	16.20	22.50	29.00	35.00	-	
	1.00	12.40	20.70	29.00	37.30	45.70	45.70	

Configurable Length

Part No.	Type	D	\$ Unit Price															
			Min. L 2.00	L2.01	L4.01	L6.01	L8.01	L12.01	L16.01	L20.01	L24.01	L32.01	L40.01	L48.01	L60.01			
U-SFJW	0.25	6.20	10.10	14.10	18.00	22.00	26.00	29.90	33.90	-	-	-	-	-	-	-	-	
	0.38	5.90	9.00	12.00	15.10	18.00	21.10	24.20	27.20	36.40	-	-	-	-	-	-	-	
	0.50	6.20	10.70	15.20	19.70	24.20	28.60	33.10	37.60	46.60	51.00	-	-	-	-	-	-	
	0.63	6.60	11.20	15.80	20.50	25.10	29.70	34.30	38.90	48.20	52.80	-	-	-	-	-	-	
	0.75	6.60	11.30	16.10	20.90	25.60	30.40	35.10	39.80	49.40	56.80	62.00	-	-	-	-	-	
	1.00	7.40	12.50	17.70	22.90	27.90	33.10	38.30	43.50	53.70	64.00	74.40	-	-	-	-	-	
	1.25	11.40	20.50	29.40	38.30	47.20	56.20	65.20	74.30	92.30	109.80	128.00	137.00	-	-	-	-	
	1.50	12.80	23.40	34.20	44.90	55.70	66.30	77.10	87.80	109.20	130.70	152.10	162.90	-	-	-	-	
	U-PSFJW	0.25	8.10	13.40	18.70	24.00	29.30	34.50	39.80	45.10	-	-	-	-	-	-	-	-
		0.38	8.00	12.30	16.50	20.70	25.00	29.20	33.40	37.60	50.10	-	-	-	-	-	-	-
0.50		8.60	14.70	21.00	27.20	33.40	39.60	45.80	52.00	64.50	70.60	-	-	-	-	-	-	
0.63		9.00	15.40	21.90	28.40	34.90	41.40	47.70	54.00	67.20	73.70	-	-	-	-	-	-	
0.75		9.00	15.60	22.20	28.80	35.40	42.00	48.60	55.20	68.40	78.50	85.70	-	-	-	-	-	
1.00		10.10	17.30	24.40	31.60	38.70	45.80	52.90	60.10	75.70	91.20	106.80	-	-	-	-	-	
1.25		14.90	26.60	38.30	49.70	61.50	73.30	84.80	96.70	120.90	144.50	168.70	187.30	-	-	-	-	
1.50		16.60	30.50	44.30	58.20	72.10	85.90	99.80	113.70	141.50	169.20	196.90	217.90	-	-	-	-	
U-SSFJW		0.25	10.00	16.50	23.00	29.50	35.90	42.40	48.80	55.30	-	-	-	-	-	-	-	-
		0.38	9.50	15.10	21.00	27.00	33.00	39.00	45.00	51.00	69.30	-	-	-	-	-	-	-
	0.50	10.10	17.70	25.20	32.80	40.30	47.70	55.30	62.80	77.90	85.40	-	-	-	-	-	-	
	0.63	12.50	20.90	29.20	37.50	45.80	54.10	62.50	70.70	87.30	95.70	-	-	-	-	-	-	
	0.75	13.40	22.30	31.10	40.00	48.80	57.60	66.60	75.40	93.10	109.60	124.90	-	-	-	-	-	
	1.00	15.10	25.20	35.40	45.50	55.70	65.90	76.00	86.20	106.50	126.80	151.10	-	-	-	-	-	
	1.25	21.10	38.30	55.40	72.50	89.70	106.70	124.10	141.10	175.80	210.10	246.70	264.00	-	-	-	-	
	1.50	22.90	43.70	64.														