

Cantilever Shafts –Tapped Shafts–



Cantilever Shafts are generally used in combination with rotary bearings, pulleys or as swivel mechanisms. They are often used as the idler portion of a rotary system and are mounted on a flat surface. Choose from a 1045 carbon steel or 304 stainless steel. See the application example for mounting suggestions.

Threaded Shank

Material	Surface Treatment	Type
1045 Steel	Black Oxide	U-FXHC
	Electroless Nickel Plating	U-PFXHC
304 Stainless Steel	-	U-SFXHC

Material Characteristics P.628, 629

Flat width when $Y \geq 0.750$

Surface Roughness: Unless otherwise specified

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.

Type	Part No.		Choose in 0.001" Increments				TA Thread Selection (Callout)								
	Callout	Nominal	D	Tolerance	Y	F	#8-32	#10-32	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10	1-8
U-FXHC U-PFXHC U-SFXHC	0.25	1/4	0.2498	0.2494	0.125 ~ 2.250	0.250 ~ 3.875	8	10	0.25						
	0.38	3/8	0.3748	0.3744	0.125 ~ 2.250	0.250 ~ 3.875			0.25	0.31	0.38				
	0.50	1/2	0.4998	0.4994	0.125 ~ 2.250	0.250 ~ 3.875			0.25	0.31	0.38	0.50			
	0.63	5/8	0.6248	0.6244	0.125 ~ 2.250	0.375 ~ 5.750				0.31	0.38	0.50	0.63		
	0.75	3/4	0.7497	0.7492	0.156 ~ 2.875	0.375 ~ 5.750					0.38	0.50	0.63	0.75	
	1.00	1"	0.9997	0.9992	0.156 ~ 2.875	0.375 ~ 5.750					0.50	0.63	0.75	1.00	

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

Part No. — Y — F — TA

Type D

U-FXHC 0.50 — Y 1.375 — F 1.000 — TA 0.50

Selection Criteria: Select Y and F, "t" in the drawing does not become smaller than the table below.

Technical Information

D	T (Thread)		T1	L	H	W
	Callout	Nominal				
0.25	1/4	#6-32	0.138	0.21	Y+F+TA1	0.50 0.438
0.38	3/8	#10-32	0.190	0.29	Y+F+TA1	0.59 0.500
0.50	1/2	1/4-20	0.250	0.38	Y+F+TA1	0.69 0.560
0.63	5/8	3/8-16	0.375	0.56	Y+F+TA1	0.81 0.688
0.75	3/4	1/2-13	0.500	0.75	Y+F+TA1	1.00 0.875
1.00	1"	5/8-11	0.625	0.94	Y+F+TA1	1.25 1.125

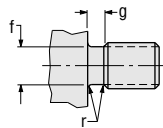
TA (Thread)				Major Dia.	TA1
Callout	Thread Size				
8	#8-32	0.164		0.164	0.246
10	#10-32	0.190		0.190	0.285
0.25	1/4-20	0.250		0.250	0.375
0.31	5/16-18	0.313		0.313	0.469
0.38	3/8-16	0.375		0.375	0.563
0.50	1/2-13	0.500		0.500	0.750
0.63	5/8-11	0.625		0.625	0.938
0.75	3/4-10	0.750		0.750	1.125
1.00	1-8	1.000		1.000	1.500

"t" Minimum

T (Thread)	t min.
#6-32	0.219
#10-32	0.250
1/4-20	0.266
3/8-16	0.344
1/2-13	0.469
5/8-11	0.516

Undercut Dimensions & Details

TA (Thread)	g (max)	r	f
#8-32	0.047	0.012	0.122
#10-32	0.047	0.012	0.138
1/4-20	0.098	0.024	0.189
5/16-18	0.098	0.024	0.244
3/8-16	0.098	0.024	0.299
1/2-13	0.118	0.039	0.409
5/8-11	0.118	0.039	0.520
3/4-10	0.157	0.039	0.630
1-8	0.197	0.059	0.846



Days to Ship **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.



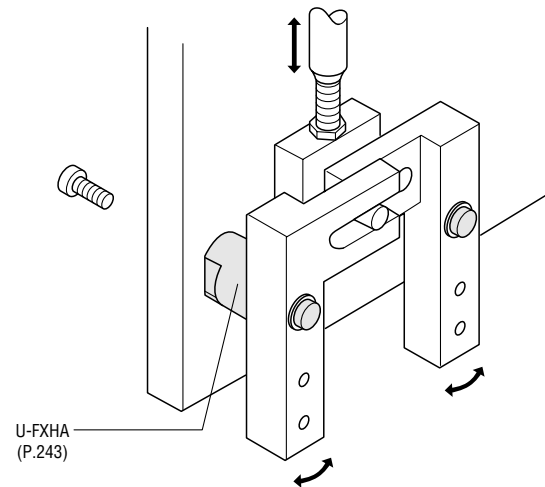
Optional Modifications Part No. — Y — F — TA — (Ordering Code) (YKC, WSC)
Type D
U-FXHC 0.50 — Y 1.375 — F 1.000 — TA 0.50 — YKC

Optional Modifications	Y Dimension Tolerance	Wrench Flats Added
Ordering Code	YKC	WSC
Details	Changes the Y dimension tolerance to ±0.002. [Example] YKC	Wrench flats have been changed from 2 sides to 4 sides. [Example] WSC
\$ Price Adder	4.00	4.00

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



Example



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

D	\$ Unit Price		
	U-FXHC	U-PFXHC	U-SFXHC
0.25	13.00	15.60	19.40
0.38	14.90	17.80	22.30
0.50	16.70	19.90	25.00
0.63	19.40	23.30	29.20
0.75	25.20	30.10	37.60
1.00	29.50	35.60	44.40

