

Cantilever Shafts –Standard Shafts–



Cantilever Shafts are generally used in combination with rotary bearings or bearings with pulleys. 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 application example for mounting details.

Threaded Shank

Material	Surface Treatment	Type
1045 Steel	Black Oxide	U-FXAC
	Electroless Nickel Plating	U-PFXAC
304 Stainless Steel	-	U-SFXAC

Material Characteristics P.628, 629

Flat width when $Y \geq 0.750$

When $D=TA$

Surface Roughness: Unless otherwise specified $\sqrt{32}$

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													
	Callout	Nominal	Tolerance	Y	F	#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	1-8	
U-FXAC U-PFXAC U-SFXAC	0.13	1/8	0.1249 0.1246	0.125 - 1.125	0.156 - 1.938	5											
	0.19	3/16	0.1874 0.1871	0.125 - 2.250	0.250 - 3.875	5	6	8	10								
	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.

Part No. - Y - F - TA

Type D

U-FXAC 0.50 - Y 1.375 - F 1.000 - TA 0.50

Technical Information

Callout	Nominal	L	H	W	T (Thread)		T1
					Size	Major Dia.	
0.13	1/8	Y+F+TA1	0.25	0.188	#6-32	0.138	0.207
0.19	3/16	Y+F+TA1	0.38	0.312	#10-32	0.190	0.285
0.25	1/4	Y+F+TA1	0.50	0.438	1/4-20	0.250	0.375
0.38	3/8	Y+F+TA1	0.59	0.500	3/8-16	0.375	0.563
0.50	1/2	Y+F+TA1	0.69	0.560	1/2-13	0.500	0.750
0.63	5/8	Y+F+TA1	0.81	0.688	5/8-11	0.625	0.938
0.75	3/4	Y+F+TA1	1.00	0.875	3/4-10	0.750	1.125
1.00	1"	Y+F+TA1	1.25	1.125	1-8	1.000	1.500

Undercut Dimensions & Details

TA, T (Thread)	g (max)	r	f
#5-40	0.047	0.012	0.091
#6-32	0.047	0.012	0.098
#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

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. - Y - F - TA (Ordering Code) (YKC, WSC)

Type D

U-FXAC 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

Quantity Discount Rate

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

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

D	\$ Unit Price		
	U-FXAC	U-PFXAC	U-SFXAC
0.13	8.80	10.60	13.20
0.19	12.70	15.20	19.10
0.25	13.70	16.40	20.50
0.38	15.60	18.70	23.40
0.50	17.50	21.00	26.30
0.63	20.40	24.50	30.60
0.75	26.40	31.70	39.60
1.00	31.10	37.30	46.70



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