



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. The male thread option has an undercut that allows the part to be surface mounted. See application example on P.234.

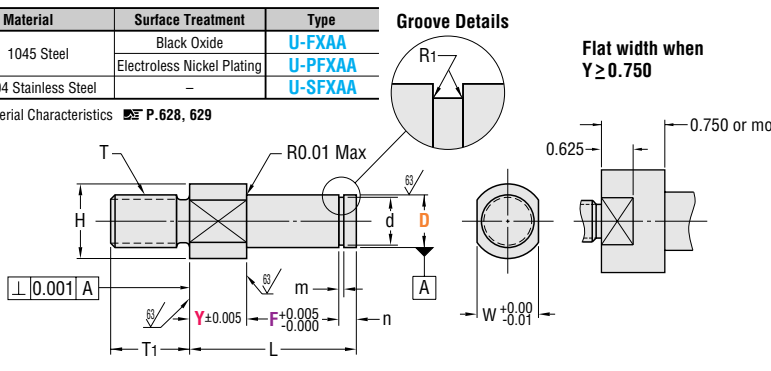
See application example on P.234.

Retaining Ring Groove



Material	Surface Treatment	Type
1045 Steel	Black Oxide	U-FXAA
	Electroless Nickel Plating	U-PFXAA
304 Stainless Steel	-	U-SFXAA

Material Characteristics  P.628, 629




Flat width when $Y \geq 0.750$

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 

Type	Part No.			Choose in 0.001" Increments		L	H	W	T (Thread)		T1	
	Callout	Nominal	Tolerance	Y	F				Size	Major Dia.		
												Y
U-FXAA U-PFXAA U-SFXAA	0.13	1/8	0.1249	0.1246	0.125 ~ 1.125	0.156 ~ 1.938	Y+F+n	0.25	0.188	#6-32	0.138	0.207
	0.19	3/16	0.1874	0.1871	0.125 ~ 2.250	0.250 ~ 3.875	Y+F+n	0.38	0.312	#10-32	0.190	0.285
	0.25	1/4	0.2498	0.2494	0.125 ~ 2.250	0.250 ~ 3.875	Y+F+n	0.50	0.438	1/4-20	0.250	0.375
	0.38	3/8	0.3748	0.3744	0.125 ~ 2.250	0.250 ~ 3.875	Y+F+n	0.59	0.500	3/8-16	0.375	0.563
	0.50	1/2	0.4998	0.4994	0.125 ~ 2.250	0.250 ~ 3.875	Y+F+n	0.69	0.560	1/2-13	0.500	0.750
	0.63	5/8	0.6248	0.6244	0.125 ~ 2.250	0.375 ~ 5.750	Y+F+n	0.81	0.688	5/8-11	0.625	0.938
	0.75	3/4	0.7497	0.7492	0.156 ~ 2.875	0.375 ~ 5.750	Y+F+n	1.00	0.875	3/4-10	0.750	1.125
1.00	1"	0.9997	0.9992	0.156 ~ 2.875	0.375 ~ 5.750	Y+F+n	1.25	1.125	1-8	1.000	1.500	

 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**

Type **D**

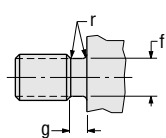
U-FXAA 0.50 — Y 1.375 — F 1.000

Retaining Ring Groove Tolerance & Details

D	d		m		n	R1 max	Compatible Retaining Rings (ASME B18.27-1998)
	Diameter	Tolerance	Width	Tolerance			
0.13	0.117	0.1185	0.1155	0.012	0.014	0.012	NA1- 12
0.19	0.175	0.1765	0.1735	0.018	0.020	0.018	NA1- 18
0.25	0.230	0.2315	0.2285	0.029	0.032	0.029	NA1- 25
0.38	0.352	0.3540	0.3500	0.029	0.032	0.029	NA1- 37
0.50	0.468	0.4700	0.4660	0.039	0.042	0.039	NA1- 50
0.63	0.588	0.5910	0.5850	0.039	0.042	0.039	NA1- 62
0.75	0.704	0.7070	0.7010	0.046	0.049	0.046	NA1- 75
1.00	0.940	0.9430	0.9370	0.046	0.049	0.046	NA1-100


Undercut Dimensions & Details

T (Thread)	g (max)	r	f
#6-32	0.047	0.012	0.098
#10-32	0.047	0.012	0.138
1/4-20	0.098	0.024	0.189
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


 Optional Modifications


Part No. — **Y** — **F** — (Ordering Code) (YKC, WSC)

Type **D**

U-FXAA 0.50 — Y 1.375 — F 1.000 — YKC

 Express

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

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

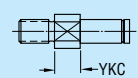
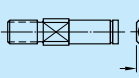
 Price


Quantity Discount Rate

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


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

D	\$ Unit Price		
	U-FXAA	U-PFXAA	U-SFXAA
0.13	7.30	8.80	11.00
0.19	10.60	12.70	15.80
0.25	11.40	13.70	17.20
0.38	13.00	15.60	19.40
0.50	14.60	17.50	22.00
0.63	17.00	20.40	25.60
0.75	22.00	26.40	33.00
1.00	25.90	31.10	38.90


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

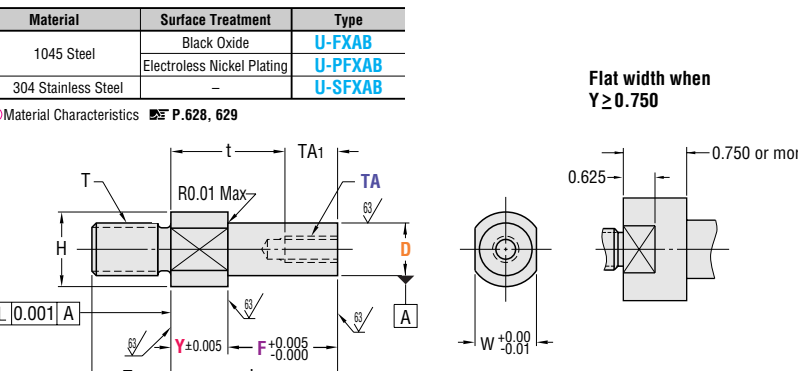
 When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".

Tapped End



Material	Surface Treatment	Type
1045 Steel	Black Oxide	U-FXAB
	Electroless Nickel Plating	U-PFXAB
304 Stainless Steel	-	U-SFXAB

Material Characteristics  P.628, 629




Flat width when $Y \geq 0.750$




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 


Type	Part No.			Choose in 0.001" Increments		Thread Selection (Callout)							L	H	W	T (Thread)		T1	
	Callout	Nominal	Tolerance	Y	F	#6-32	#8-32	#10-32	1/4-20	5/16-18	3/8-16	1/2-13				5/8-11	Size		Major Dia.
U-FXAB U-PFXAB U-SFXAB	0.25	1/4	0.2498	0.2494	0.125 ~ 2.250	0.250 ~ 3.875	6							Y+F	0.50	0.438	1/4-20	0.250	0.375
	0.38	3/8	0.3748	0.3744	0.125 ~ 2.250	0.250 ~ 3.875	6	8						Y+F	0.59	0.500	3/8-16	0.375	0.563
	0.50	1/2	0.4998	0.4994	0.125 ~ 2.250	0.250 ~ 3.875	8	10	0.25					Y+F	0.69	0.560	1/2-13	0.500	0.750
	0.63	5/8	0.6248	0.6244	0.125 ~ 2.250	0.375 ~ 5.750			10	0.25	0.31	0.38		Y+F	0.81	0.688	5/8-11	0.625	0.938
	0.75	3/4	0.7497	0.7492	0.156 ~ 2.875	0.375 ~ 5.750				0.25	0.31	0.38		Y+F	1.00	0.875	3/4-10	0.750	1.125
1.00	1"	0.9997	0.9992	0.156 ~ 2.875	0.375 ~ 5.750				0.31	0.38	0.50	0.63	Y+F	1.25	1.125	1-8	1.000	1.500	

 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-FXAB 0.50 — Y 1.375 — F 1.000 — TA 10

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

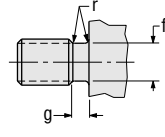
Technical Information

TA (Thread) Callout	Thread Seize	Major Dia.	TA1 (Depth)	"t" Minimum	
				TA (Thread)	t min.
6	#6-32	0.138	0.28	#6-32	0.219
8	#8-32	0.164	0.33	#8-32	0.250
10	#10-32	0.190	0.38	#10-32	0.250
0.25	1/4-20	0.250	0.50	1/4-20	0.266
0.31	5/16-18	0.313	0.63	5/16-18	0.297
0.38	3/8-16	0.375	0.75	3/8-16	0.344
0.50	1/2-13	0.500	1.00	1/2-13	0.469
0.63	5/8-11	0.625	1.25	5/8-11	0.516

"t" Minimum


Undercut Dimensions & Details


T (Thread)	g (max)	r	f
1/4-20	0.098	0.024	0.189
3/8-16	0.098	0.024	0.299
1/2-13	0.118	0.039	0.409
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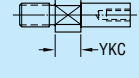
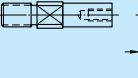
D	\$ Unit Price		
	U-FXAB	U-PFXAB	U-SFXAB
0.25	13.70	16.40	20.50
0.38	15.60	18.70	23.40
0.50	17.50	21.00	26.30
0.63	20.40	24.50	30.60
0.75	26.40	31.70	39.60
1.00	31.10	37.30	46.70


 Optional Modifications

Part No. — **Y** — **F** — **TA** — (Ordering Code) (YKC, WSC)

Type **D**

U-FXAB 0.50 — Y 1.375 — F 1.000 — TA 10 — YKC

Optional Modifications	Y Dimension Tolerance	Wrench Flats Added
		
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