

# Cantilever Shafts – Flanged 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. The "Flanged" is structurally stronger than the "Standard". It comes in three different styles: "Retaining Groove", "Tapped" and "Threaded". See application example for mounting details.

### Threaded Shank

Material	Surface Treatment	Type
1045 Steel	Black Oxide	U-FXFC
	Electroless Nickel Plating	U-PFXFC
304 Stainless Steel	-	U-SFXFC

Material Characteristics P.628, 629

When D=T

**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

Throat or hole location tolerance: ±0.005' non-cumulative.

Type	Part No.				Choose in 0.001" Increments		T (Thread)										
	Callout	Nominal	Tolerance		Y	F	Thread Selection (Callout)										
			0.25	0.38			#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-FXFC U-PFXFC U-SFXFC	0.25	1/4	0.2498	0.2494	0.375 - 2.250	0.250 - 3.875	8	10	0.25								
	0.38	3/8	0.3748	0.3744	0.438 - 2.250	0.250 - 3.875			0.25	0.31	0.38						
	0.50	1/2	0.4998	0.4994	0.438 - 2.250	0.250 - 3.875			0.25	0.31	0.38	0.50					
	0.63	5/8	0.6248	0.6244	0.531 - 2.250	0.375 - 5.750				0.31	0.38	0.50	0.63				
	0.75	3/4	0.7497	0.7492	0.531 - 2.875	0.375 - 5.750					0.38	0.50	0.63	0.75			
	1.00	1"	0.9997	0.9992	0.656 - 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 - T

Type D

U-FXFC 0.50 - Y 1.375 - F 1.000 - T 0.50

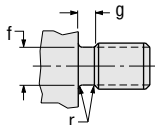
### Technical Information

Callout	D	Nominal	L	V	H	Tc	d1	d2	h	Compatible Bolt	P.C.D.
0.38	3/8	Y+F+T1	0.438	1.19	0.31	0.281	0.154	0.154	#6	0.813	
0.50	1/2	Y+F+T1	0.625	1.38	0.31	0.313	0.180	0.180	#8	1.000	
0.63	5/8	Y+F+T1	0.875	1.63	0.38	0.313	0.180	0.180	#8	1.250	
0.75	3/4	Y+F+T1	1.000	1.88	0.38	0.375	0.206	0.206	#10	1.438	
1.00	1"	Y+F+T1	1.437	2.38	0.50	0.375	0.206	0.206	#10	1.875	

T (Thread)			
Callout	Thread Size	Major Dia.	T1
8	#8-32	0.164	0.246
10	#10-32	0.190	0.285
0.25	1/4-20	0.250	0.375
0.31	5/16-18	0.313	0.469
0.38	3/8-16	0.375	0.563
0.50	1/2-13	0.500	0.750
0.63	5/8-11	0.625	0.938
0.75	3/4-10	0.750	1.125
1.00	1-8	1.000	1.500

### Undercut Dimensions & Details

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	0.039	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**

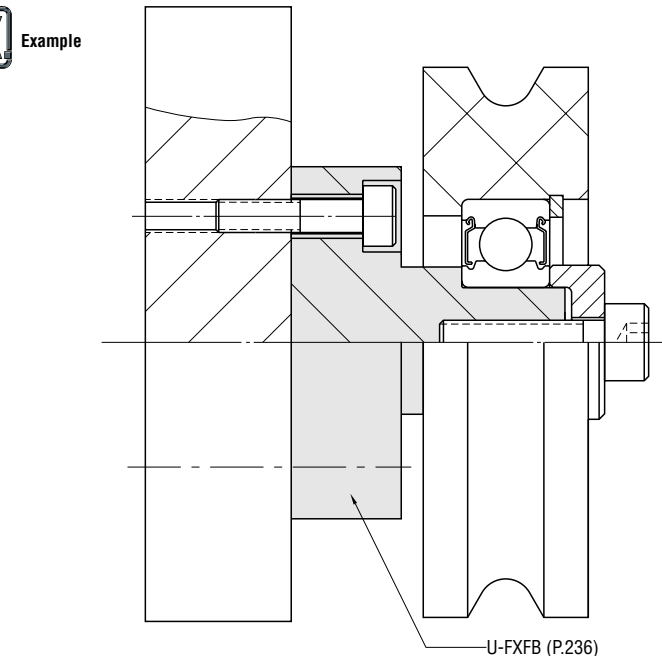
Part No. - Y - F - T (Ordering Code) (YKC, APC)

Type D

U-FXFC 0.50 - Y 1.375 - F 1.000 - T 0.50 - YKC

Optional Modifications	Y Dimension Tolerance	Pilot Added																																		
Ordering Code	YKC	APC																																		
Details	Changes the Y dimension tolerance to ±0.002. Example: YKC	Adds a pilot to the bottom of flange. Example: APC																																		
		<table border="1"> <thead> <tr> <th>D</th> <th colspan="2">Dia</th> <th>APC</th> <th>Tolerance</th> </tr> </thead> <tbody> <tr> <td>0.25</td> <td>0.3125</td> <td>0.3123</td> <td>0.3119</td> <td></td> </tr> <tr> <td>0.38</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> <td></td> </tr> <tr> <td>0.50</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> <td></td> </tr> <tr> <td>0.63</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> <td></td> </tr> <tr> <td>0.75</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> <td></td> </tr> <tr> <td>1.00</td> <td>0.3750</td> <td>0.3748</td> <td>0.3744</td> <td></td> </tr> </tbody> </table>	D	Dia		APC	Tolerance	0.25	0.3125	0.3123	0.3119		0.38	0.3750	0.3748	0.3744		0.50	0.3750	0.3748	0.3744		0.63	0.3750	0.3748	0.3744		0.75	0.3750	0.3748	0.3744		1.00	0.3750	0.3748	0.3744
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When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".



**Quantity Discount Rate**

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

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

D	\$ Unit Price		
	U-FXFC	U-PFXFC	U-SFXFC
0.25	19.70	23.50	29.50
0.38	22.40	27.00	33.70
0.50	25.30	30.20	37.90
0.63	29.60	35.50	44.50
0.75	38.00	45.70	57.10
1.00	44.90	54.00	67.40



Idler Pulleys - Timing Belt- P.303



Idler Pulleys P.305



Collars P.499

