

Cantilever Shafts

Threaded with Threaded Ends

Standard

Type	Material	Surface Treatment
FXAC, FXNAC	S45C Equivalent	Black Oxide
PFXAC, PFXNAC	SUS304	Electroless Nickel Plating
SFXAC, SFXNAC	SCM435 Equivalent Hardness: 35 - 40HRC	Electroless Nickel Plating

Dimensions of Wrench Flats when Y≥17

When D=MA

Thread Length Fixed

Thread Length Configurable

RoHS10

This type may have centering holes depending on dimensions.
Refer to the table on P888 for thread undercut dimensions.

Part Number	Type	No.	Dg6	1mm Increment		MA (Coarse) Selection	H	W	M (Coarse)	Unit Price														
				Y	F					N	Thread Length Fixed	Thread Length Configurable	FXAC	PFXAC	SFXAC	PHFXAC								
Thread Length Fixed FXAC PFXAC SFXAC PHFXAC (D≥6)	3	3	-0.002	2-30	3-50	3-6	3	7	5	M 3														
	3A	3	-0.008			4-8	3 4	11	9	M 4														
	4	4	-0.004			5-10	3 4 5	8	6	M 5														
	4A	4	-0.012			6-12	4 5 6	12	10	M 6														
	5	5	-0.004			5-100	8-16	5-10	3 4 5	9	7	M 5												
	5A	5	-0.012					6-12	4 5 6	13	11	M 6												
	6	6	-0.005					8-16	5 6 8	10	8	M 8												
	6A	6	-0.014					10-20	6 8 10	12	10	M 10												
	8	8	-0.005					2-60	10-20	6 8 10 12	16	14	M 12											
	8A	8	-0.014							8 10 12 (15)	17	15	M 12											
10	10	-0.006	6 8 10 12	20	17					M 12														
10A	10	-0.017	8 10 12 (15)	21	18					M 12														
12	12	-0.006	4-60	20-40	10 12 (15) 16 20					22	19	M 20												
13	13	-0.017			10 12 (15) 16 20					23	20	M 20												
15	15	-0.006			10 12 (15) 16 20	26	24			M 20														
16	16	-0.017			10 12 (15) 16 20	28	26			M 20														
17	17	-0.007			10 12 (15) 16 20	31	27			M 20														
18	18	-0.020			10 12 (15) 16 20	32	28			M 20														
20	20	-0.007			10 12 (15) 16 20	36	32	M 20																
20A	20	-0.020			10 12 (15) 16 20			M 20																
22	22	-0.007			10 12 (15) 16 20			M 16																
22A	22	-0.020			10 12 (15) 16 20			M 16																
25	25	-0.007	10 12 (15) 16 20			M 16																		
25A	25	-0.020	10 12 (15) 16 20			M 16																		
30	30	-0.007	10 12 (15) 16 20			M 16																		
30A	30	-0.020	10 12 (15) 16 20			M 16																		

MA dimensions with () (M15 and M25) are Fine Thread. Specify MSC instead of MA. N is available for Thread Length Configurable Type only. PHFXAC is applicable to D6 or larger specifications.

Stepped

Type	Material	Surface Treatment
FXBC	S45C	Black Oxide
PFXBC	Equivalent	Electroless Nickel Plating
SFXBC	SUS304	-

Dimensions of Wrench Flats when W<V, Y≥17

When D=MA

Thread Length Fixed

Thread Length Configurable

RoHS10

This type may have centering holes depending on dimensions.
Refer to the table on P888 for thread undercut dimensions.

Part Number	Type	No.	Dgs	1mm Increment		MA (Coarse) Selection	V	H	W	M (Coarse)	Unit Price						
				Y	F						FXBC	PFXBC	SFXBC				
Thread Length Fixed FXBC PFXBC SFXBC	3	3	-0.002	7-30	3-50	3	5	7	5	M 3							
	3A	3	-0.008			3 4	9	11	9	M 4							
	4	4	-0.004			3 4 5	6	8	6	M 5							
	4A	4	-0.012			4 5 6	7	9	7	M 6							
	5	5	-0.004			5-100	5-100	5 6 8	8	10	8	M 8					
	5A	5	-0.012					6 8 10	10	12	10	M 10					
	6	6	-0.005					6 8 10 12	12	14	12	M 12					
	6A	6	-0.014					6 8 10 12	14	16	14	M 12					
	8	8	-0.005					7-60	10-100	8 10 12 (15)	13	15	13	M 12			
	8A	8	-0.014							8 10 12 (15)	15	17	14	M 12			
10	10	-0.006	10 12 (15) 16 20	16	18					15	M 12						
10A	10	-0.014	10 12 (15) 16 20	18	20					17	M 12						
12	12	-0.006	10 12 (15) 16 20	21	23					20	M 20						
13	13	-0.017	10 12 (15) 16 20	24	26					24	M 20						
15	15	-0.006	10 12 (15) 16 20	26	28	24	M 20										
16	16	-0.017	10 12 (15) 16 20	29	31	27	M 20										
17	17	-0.007	10 12 (15) 16 20	34	36	32	M 20										
18	18	-0.020	10 12 (15) 16 20				M 16										
20	20	-0.007	10 12 (15) 16 20				M 16										
20A	20	-0.020	10 12 (15) 16 20				M 16										
22	22	-0.007	10 12 (15) 16 20				M 16										
22A	22	-0.020	10 12 (15) 16 20				M 16										
25	25	-0.007	10 12 (15) 16 20				M 16										
25A	25	-0.020	10 12 (15) 16 20				M 16										
30	30	-0.007	10 12 (15) 16 20				M 16										
30A	30	-0.020	10 12 (15) 16 20				M 16										

MA dimensions with () (M15 and M25) are Fine Thread. Specify MSC instead of MA. When W<V, wrench flats W reaches O.D.V.

Hex

Type	Material	Surface Treatment
LXAC, LXNAC	S45C	Black Oxide
PLXAC, PLXNAC	Equivalent	Electroless Nickel Plating
SLXAC, SLXNAC	SUS304	-

When D=MA

Thread Length Fixed

Thread Length Configurable

RoHS10

This type may have centering holes depending on dimensions.
Refer to the table below for thread undercut dimensions.

Part Number	Type	No.	Dg6	1mm Increment		MA (Coarse) Selection	B	(C)	M (Coarse)	Unit Price							
				Y	F					N	Thread Length Fixed	Thread Length Configurable	LXAC	PLXAC	SLXAC		
Thread Length Fixed LXAC PLXAC SLXAC	3	3	-0.002	2-30	3-50	3-6	3	6	6.9	M 3							
	3A	3	-0.008			4-8	3 4	7	8.1	M 4							
	4	4	-0.004			5-10	3 4 5	8	9.2	M 5							
	4A	4	-0.012			6-12	4 5 6	9	10.3	M 6							
	5	5	-0.004			5-75	8-16	5 6 8	10	11.5	M 8						
	5A	5	-0.012					6 8 10	11	12.6	M 10						
	6	6	-0.005					6 8 10 12	12	13.7	M 10						
	6A	6	-0.014					8 10 12 (15)	13	14.8	M 12						
	8	8	-0.005					2-60	12-24	6 8 10 12	14	16.2	M 12				
	8A	8	-0.014							8 10 12 (15)	15	17.3	M 12				
10	10	-0.006	10 12 (15) 16 20	16	18.4					M 12							
10A	10	-0.017	10 12 (15) 16 20	17	19.5					M 12							
12	12	-0.006	4-60	20-40	10 12 (15) 16 20					18	20.6	M 16					
13	13	-0.017			10 12 (15) 16 20					19	21.7	M 16					
15	15	-0.006			10 12 (15) 16 20	24	27.7			M 20							
16	16	-0.017			10 12 (15) 16 20	25	28.8			M 20							
17	17	-0.007			10 12 (15) 16 20	27	30.9			M 20							
18	18	-0.020			10 12 (15) 16 20	28	32.0			M 20							
20	20	-0.007			10 12 (15) 16 20	32	36.9	M 20									
20A	20	-0.020			10 12 (15) 16 20			M 16									
22	22	-0.007			10 12 (15) 16 20			M 16									
22A	22	-0.020			10 12 (15) 16 20			M 16									
25	25	-0.007	10 12 (15) 16 20			M 16											
25A	25	-0.020	10 12 (15) 16 20			M 16											
30	30	-0.007	10 12 (15) 16 20			M 16											
30A	30	-0.020	10 12 (15) 16 20			M 16											

MA dimensions with () (M15 and M25) are Fine Thread. Specify MSC instead of MA. N is available for Thread Length Configurable Type only.

Ordering Example

Part Number - Y - F - N - MA

FXAC12 - 25 - F22 - N10 - MA8

LXNAC10 - 30 - F50 - N10 - MA6

Alterations

Part Number - Y - F - N - MA (MSC) - (YKC, WSC)

FXAC10 - 53 - F30 - MSC10 - WSC

Alterations	Y Dimension Tolerance	Four Wrench Flats	Fine Thread																																																																						
Code	YKC	WSC	MSC																																																																						
Spec.	Changes Y dimension tolerance to ±0.05. Applicable to all types. Ordering Code: YKC	Changes from two wrench flats to four wrench flats. Applicable to Standard and Stepped Types. Ordering Code: WSC	Changes Thread MA to Fine Thread in the table below. Applicable to all types. Specify MSC instead of MA. Ordering Code: MSC8																																																																						
			<table border="1"> <thead> <tr> <th colspan="3">Coarse Thread</th> <th colspan="3">Fine Thread</th> </tr> <tr> <th>Thread Dia. (M, MA)</th> <th>g</th> <th>r</th> <th>Thread Dia. (MSC)</th> <th>g</th> <th>r</th> </tr> </thead> <tbody> <tr> <td>3</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>1.2-1.5</td> <td>0.2-0.3</td> <td>4</td> <td>1.2-1.5</td> <td>0.2-0.3</td> </tr> <tr> <td>5</td> <td></td> <td></td> <td>5</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td>6</td> <td></td> <td></td> </tr> <tr> <td>8</td> <td>1.5-2.5</td> <td>0.2-0.6</td> <td>8</td> <td>1.5-2.5</td> <td>0.2-0.6</td> </tr> <tr> <td>10</td> <td></td> <td></td> <td>10</td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>1.5-3.0</td> <td>0.2-1.0</td> <td>12</td> <td>1.5-3.0</td> <td>0.2-1.0</td> </tr> <tr> <td>16</td> <td></td> <td></td> <td>16</td> <td></td> <td></td> </tr> <tr> <td>20</td> <td>1.5-4.0</td> <td>0.2-1.0</td> <td>20</td> <td>1.5-4.0</td> <td>0.2-1.0</td> </tr> <tr> <td>24</td> <td></td> <td></td> <td>24</td> </tr></tbody></table>	Coarse Thread			Fine Thread			Thread Dia. (M, MA)	g	r	Thread Dia. (MSC)	g	r	3			3			4	1.2-1.5	0.2-0.3	4	1.2-1.5	0.2-0.3	5			5			6			6			8	1.5-2.5	0.2-0.6	8	1.5-2.5	0.2-0.6	10			10			12	1.5-3.0	0.2-1.0	12	1.5-3.0	0.2-1.0	16			16			20	1.5-4.0	0.2-1.0	20	1.5-4.0	0.2-1.0	24			24
Coarse Thread			Fine Thread																																																																						
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