

Cantilever Shafts

Threaded with Tapped End

Standard

Type	Material	Surface Treatment
FXAB	S45C Equivalent	Black Oxide
PFXAB	S45C Equivalent	Electroless Nickel Plating
SFXAB	SUS304	-
PHFXAB	SCM435 Equivalent	Electroless Nickel Plating

Dimensions of Wrench Flats when $Y \geq 17$

RoHS 10

⚠ This type may have centering holes depending on dimensions.
 ⚠ Please refer to Table 1 to specify dimensions Y and F.
 ⚠ Refer to the table on P886 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		
Thread Length Fixed FXAB PFXAB SFXAB PHFXAB	6	6	-0.004 -0.012	2-60	5-100	6-12	3	10	8	M 6				
	6A	6	-0.004 -0.012			12-14	12	M 8						
	8	8	-0.005 -0.014			14-16	14	M 10						
	8A	8	-0.005 -0.014			16-17	14	M 12						
	10	10	-0.006 -0.017			17-18	14	M 20						
	10A	10	-0.006 -0.017			18-20	14	M 24						
	12	12				20-24	14	M 28						
	13	13					14	M 31						
	15	15					14	M 36						
	16	16					14	M 40						
Thread Length Configurable FXNAB PFXNAB SFXNAB	20	20	-0.007 -0.020	4-75	10-150	6 8 10 12	26	24	M 20					
	20A	20	-0.007 -0.020			28	M 24							
	22	22				31	M 28							
	22A	22				31	M 31							
	25	25				31	M 36							
	25A	25				31	M 40							
	30	30				36	M 48							
	30A	30				36	M 56							

Table 1

MA	Y+F
M 3	Y+F ≥ 11.5
M 4	Y+F ≥ 14.0
M 5	Y+F ≥ 16.2
M 6	Y+F ≥ 18.5
M 8	Y+F ≥ 23.5
M 10	Y+F ≥ 28.5
M 12	Y+F ≥ 35.5
M 16	Y+F ≥ 45.0
M 20	Y+F ≥ 55.0

N is available for Thread Length Configurable Type only.

Stepped

Type	Material	Surface Treatment
FXBB	S45C	Black Oxide
PFXBB	Equivalent	Electroless Nickel Plating
SFXBB	SUS304	-

Dimensions of Wrench Flats when $W < V, Y \geq 17$

RoHS 10

⚠ This type may have centering holes depending on dimensions.
 ⚠ Please refer to Table 1 to specify dimensions Y and F.
 ⚠ Refer to the table on P886 for thread undercut dimensions.

Part Number Type	No.	Dg6	1mm Increment			MA (Coarse) Selection	V	H	W	M (Coarse)	Unit Price		
			Y	F	N						FXBB	PFXBB	SFXBB
FXBB PFXBB SFXBB	6	6	-0.004 -0.012	5-75	7-60	3	8	10	8	M 6			
	6A	6	-0.004 -0.012			12-14	12	M 8					
	8	8	-0.005 -0.014			14-16	14	M 10					
	8A	8	-0.005 -0.014			16-17	14	M 12					
	10	10	-0.006 -0.017			17-18	14	M 20					
	10A	10	-0.006 -0.017			18-20	14	M 24					
	12	12				20-24	14	M 28					
	13	13					14	M 31					
	15	15					14	M 36					
	16	16					14	M 40					
Thread Length Configurable	20	20	-0.007 -0.020	10-75	8-75	6 8 10 12	24	26	24	M 20			
	20A	20	-0.007 -0.020			28	M 24						
	22	22				31	M 28						
	22A	22				31	M 31						
	25	25				31	M 36						
	25A	25				31	M 40						
	30	30				36	M 48						
	30A	30				36	M 56						

Table 1

MA	Y+F
M 3	Y+F ≥ 11.5
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M 5	Y+F ≥ 16.2
M 6	Y+F ≥ 18.5
M 8	Y+F ≥ 23.5
M 10	Y+F ≥ 28.5
M 12	Y+F ≥ 35.5
M 16	Y+F ≥ 45.0
M 20	Y+F ≥ 55.0

When $W < V$, wrench flats W reaches O.D.V.

Hex

Type	Material	Surface Treatment
LXAB	S45C	Black Oxide
PLXAB	Equivalent	Electroless Nickel Plating
SLXAB	SUS304	-

Dimensions of Wrench Flats when $Y \geq 17$

RoHS 10

⚠ Please refer to Table 1 to specify dimensions Y and F. ⚠ Refer to the table below for thread undercut dimensions. ⚠ This type may have centering holes depending on 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		
Thread Length Fixed LXAB PLXAB SLXAB	6	6	-0.004 -0.012	2-60	5-100	6-12	3	8	9.2	M 6				
	8	8	-0.005 -0.014			8-16	4	10	11.5	M 8				
	10	10	-0.006 -0.017			10-20	4 5 6	13	15	M 10				
	12	12				12-24	5 6 8	14	16.2	M 12				
	13	13					6 8 10	17	19.6					
	15	15						19	21.9					
	16	16						24	27.7	M 20				
	17	17						27	31.2	M 16				
	18	18						32	36.9	M 20				
	20	20								M 16				
Thread Length Configurable LXNAB PLXNAB SLXNAB	20A	20	-0.007 -0.020	4-60	10-100	6 8 10 12	24	27.7	M 20					
	22	22				27	M 16							
	22A	22				27	M 20							
	25	25				32	M 16							
	25A	25				32	M 20							
	30	30												
	30A	30												

N is available for Thread Length Configurable Type only.

Ordering Example

Part Number - Y - F - N - MA

FXAB10 - 25 - F18 - N12 - MA5

PLXNAB12 - 15 - F25 - N12 - MA6

Alterations

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

FXAB20 - 20 - F20 - N - MA10 - YKC

Alterations	Y Dimension Tolerance	Four Wrench Flats
	<p>Changes Y dimension tolerance to ±0.05. ⚠ Applicable to all types. Ordering Code: YKC</p>	<p>Changes from two wrench flats to four wrench flats. ⚠ Applicable to Standard and Stepped Types. Ordering Code: WSC</p>
Code	YKC	WSC
Spec.		

Example

Combination of these app. examples can be selected on our website.
 Selection Procedure Details P87
 e-Catalog Search Keyword #MA272 Search

⚠ Enter the search keyword in the search box on e-Catalog. The search result will be shown in "Modular Assembler" area.

Thread Undercut Dimensions

Thread Dia. (M)	Coarse Thread		
	g	r	f
6			4.3-4.9
8	1.5-2.5	0.2-0.6	6.3-6.6
10			8.1-8.3
12	1.5-3.0		9.8-10.1
16		0.2-1.0	13.6-13.8
20	1.5-4.0		17.0-17.2