


# Cantilever Shafts

## Heavy Load

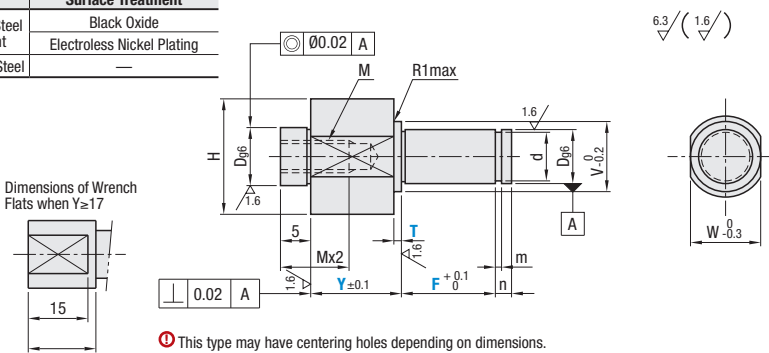
**Feature:** This is the highly stable type with a tapped hole mounting on a large base.



**Cantilever Shafts - Heavy Load**

RoHS 10

Type	Material	Surface Treatment
FXMA	1045 Carbon Steel or Equivalent	Black Oxide
PFXMA	1045 Carbon Steel or Equivalent	Electroless Nickel Plating
SFXMA	304 Stainless Steel	—



Dimensions of Wrench Flats when Y≥17

⊕ This type may have centering holes depending on dimensions.

Part Number Type	No.	Dg <sub>6</sub>		1 mm Increment		Selection		M Coarse	V	H	W	d		m	n
		Y	F	T	MA (Coarse)	Ref. Dim.	Tolerance								
FXMA PFXMA SFXMA	6	6	-0.004 -0.012	4-60	5-75	1 3 5	M3	8	14	12	5	+0.075 0	0.7	2	
	8	8	-0.005 -0.014					10	17	14	7	+0.090 0	0.9		3
	10	10	-0.014					13	21	18	9.6	-0.090	1.15	4	
	12	12	-0.006 -0.017					15	24	21	11.5	0			
	15	15	-0.006 -0.017	18	28	25	14.3	-0.110	1.35	5					
	17	17	-0.007 -0.020	20	32	28	16.2	0							
	20	20	-0.007 -0.020	24	36	32	19	0	1.65						
	25	25	-0.007 -0.020	29	43	38	23.9	-0.120							
	30	30	-0.007 -0.020	34	50	44	28.6	-0.120							

⊕ When the pilot hole depth is ≥Y+F+5, pilot of M goes through. Also, when Mx2≥Y+F+5, M goes through.

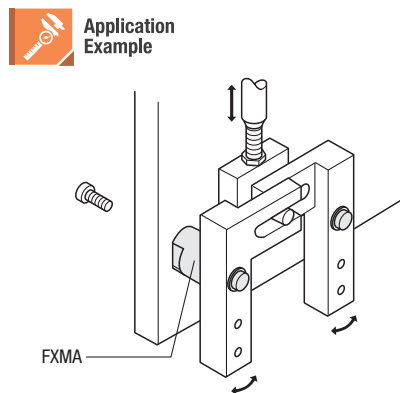
**Part Number Example**

Part Number	-	Y	-	F	-	T
FXMA20	-	20	-	F70	-	T5
SFXMA12	-	10	-	F100	-	T2

**Part Number Alterations**


Part Number	-	Y	-	F	-	7	-	(SET/SC)
FXMA15	-	20	-	F60	-	T8	-	SET-SC

Alterations	Retaining Ring Set	Width Across Flats												
Code	SET	SC												
Spec.	Attaches a retaining ring to each applicable shaft diameter. <b>Ordering Code:</b> SET Retaining Ring Shape No.6, 8: E Type Retaining Ring No.10-30: C Type Retaining Ring  Retaining Ring Material	An alteration of width across flats can be made for a slot hole guide. <b>Ordering Code:</b> SC ⊕ D (wrench flats) tolerance is +0.2/0. ⊕ Y-T≥6												
	<table border="1"> <thead> <tr> <th colspan="2">Cantilever Shafts</th> <th>Retaining Ring</th> </tr> <tr> <th>Material</th> <th>Surface Treatment</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>1045 Carbon Steel or Equivalent</td> <td>Black Oxide Electroless Nickel Plating</td> <td>Spring Steel</td> </tr> <tr> <td>304 Stainless Steel</td> <td>—</td> <td>304 Stainless Steel</td> </tr> </tbody> </table>	Cantilever Shafts		Retaining Ring	Material	Surface Treatment	Material	1045 Carbon Steel or Equivalent	Black Oxide Electroless Nickel Plating	Spring Steel	304 Stainless Steel	—	304 Stainless Steel	
Cantilever Shafts		Retaining Ring												
Material	Surface Treatment	Material												
1045 Carbon Steel or Equivalent	Black Oxide Electroless Nickel Plating	Spring Steel												
304 Stainless Steel	—	304 Stainless Steel												



# Cantilever Shafts

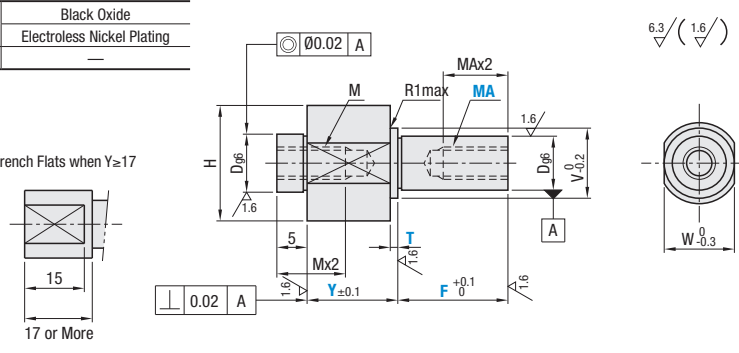
## Heavy Load



**Cantilever Shafts - Heavy Load**

RoHS 10

Type	Material	Surface Treatment
FXMB	1045 Carbon Steel or Equivalent	Black Oxide
PFXMB	1045 Carbon Steel or Equivalent	Electroless Nickel Plating
SFXMB	304 Stainless Steel	—



Dimensions of Wrench Flats when Y≥17

⊕ This type may have centering holes depending on dimensions.

Part Number Type	No.	Dg <sub>6</sub>		1 mm Increment		Selection		M Coarse	V	H	W	Tap Size		Effective Length	Pilot Hole Depth
		Y	F	T	MA (Coarse)	M3	M4								
FXMB PFXMB SFXMB	6	6	-0.004 -0.012	4-60	5-75	1 3 5	3	M3	8	14	12	M3	6	11	
	8	8	-0.005 -0.014					M4	10	17	14	M4	8	14	
	10	10	-0.014					M6	13	21	18	M5	10	17	
	12	12	-0.006 -0.017					M8	15	24	21	M6	12	20	
	15	15	-0.006 -0.017	M8	18	28	25	M8	12	25					
	17	17	-0.007 -0.020	M8	20	32	28	M10	20	29					
	20	20	-0.007 -0.020	M8	24	36	32	M12	24	34					
	25	25	-0.007 -0.020	M8	29	43	38	M16	32	44					
	30	30	-0.007 -0.020	M8	34	50	44	M16	32	44					

Please select Y / F / T so that M / MA don't interfere with each other.  
When the pilot hole interferes, it goes through.

**Part Number Example**

Part Number	-	Y	-	F	-	T	-	MA
FXMB20	-	20	-	F70	-	T5	-	MA6
SFXMB12	-	10	-	F100	-	T2	-	MA6

**Part Number Alterations**

Part Number	-	Y	-	F	-	T	-	MA	-	(SC)
PFXMB15	-	20	-	F60	-	T8	-	MA10	-	SC

Alterations	Width Across Flats
Code	SC
Spec.	An alteration of width across flats can be made for a slot hole guide. <b>Ordering Code:</b> SC ⊕ D (wrench flats) tolerance is +0.2/0. ⊕ Y-T≥6

