


Cantilever Shafts

Heavy Load

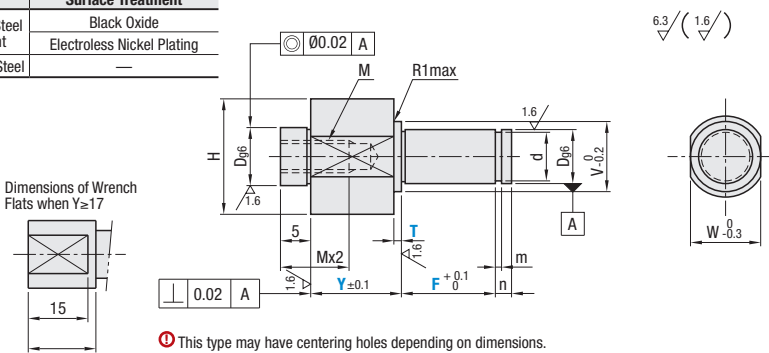
Feature: This is the highly stable type with a tapped hole mounting on a large base.



Cantilever Shafts - Heavy Load

RoHS 10

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



Dimensions of Wrench Flats when $Y \geq 17$

Ⓢ This type may have centering holes depending on dimensions.

Part Number	Type	No.	Dg _s		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	-0.012					7	+0.090	0	0.9	3			
	10	10	-0.014	-0.014					9.6	-0.090	1.15	4				
	12	12	-0.006	-0.017					11.5	0	1.15	4				
	15	15	-0.017	-0.017	10-100	2 5 8	M8	18	28	25	14.3	-0.110	1.35	5		
	17	17	-0.007	-0.020				16.2	0	1.35	5					
	20	20	-0.007	-0.020				19	-0.120	1.65	5					
	25	25	-0.007	-0.020				23.9	0	1.65	5					
	30	30	-0.020	-0.020				28.6	-0.120	1.65	5					
	34	34	-0.020	-0.020				28.6	-0.120	1.65	5					

Ⓢ When the pilot hole depth is $\geq Y+F+5$, pilot of M goes through. Also, when $Mx2 \geq Y+F+5$, M goes through.

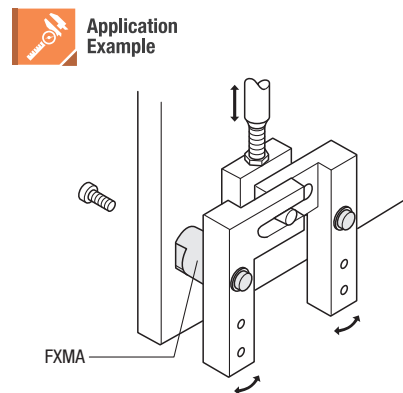
Part Number Example

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. Ordering Code: 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. Ordering Code: SC Ⓢ D (wrench flats) tolerance is $\pm 0.2/0$. Ⓢ 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</td> <td>Spring Steel</td> </tr> <tr> <td></td> <td>Electroless Nickel Plating</td> <td></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	Spring Steel		Electroless Nickel Plating		304 Stainless Steel	—	304 Stainless Steel	
Cantilever Shafts		Retaining Ring															
Material	Surface Treatment	Material															
1045 Carbon Steel or Equivalent	Black Oxide	Spring Steel															
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304 Stainless Steel	—	304 Stainless Steel															



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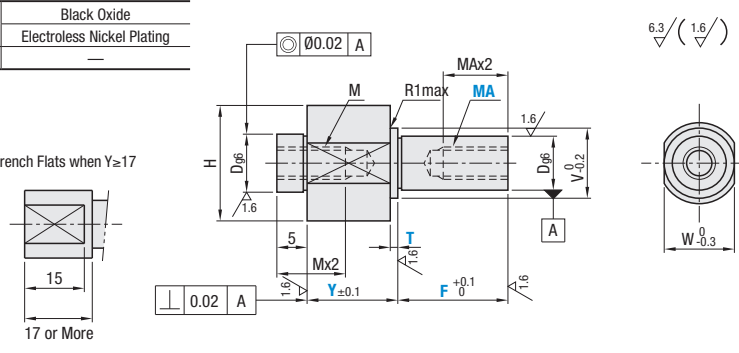
Heavy Load



Cantilever Shafts - Heavy Load

RoHS 10

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



Dimensions of Wrench Flats when $Y \geq 17$

Ⓢ This type may have centering holes depending on dimensions.

Part Number	Type	No.	Dg _s		1 mm Increment		Selection		M Coarse	V	H	W	Tap Size	Effective Length	Pilot Hole Depth	
			Y	F	T	MA (Coarse)										
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	-0.012					4	M4	10	17	14	M4	8	14
	10	10	-0.014	-0.014					4 5 6	M6	13	21	18	M5	10	17
	12	12	-0.006	-0.017					5 6 8	M8	15	24	21	M6	12	20
	15	15	-0.017	-0.017	6 8 10	18	28	25	M8		12	25				
	17	17	-0.007	-0.020		20	32	28	M10		20	29				
	20	20	-0.007	-0.020	8 10 12	24	36	32	M12		24	34				
	25	25	-0.020	-0.020		29	43	38	M16		32	44				
	30	30	-0.020	-0.020	8 10 12 16	34	50	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. Ordering Code: SC Ⓢ D (wrench flats) tolerance is $\pm 0.2/0$. Ⓢ Y-T ≥ 6

