

Cantilever Shafts

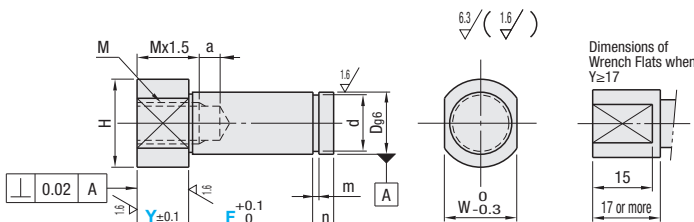
Screw Mount with Retaining Ring Groove

Standard



RoHS 10

Type	Material	Surface Treatment
FXHA	EN 1.1191 Equiv.	Black Oxide
PFXHA	EN 1.1191 Equiv.	Electroless Nickel Plating
SFXHA	EN 1.4301 Equiv.	-



This type may have centering holes depending on dimensions.

Part Number		Dg6		1mm Increment		M	H	W	d		m	n	Unit Price						
Type	No.			Y	F	(Coarse)			Ref. Dim.	Tolerance			FXHA	PFXHA	SFXHA				
FXHA PFXHA SFXHA	6	6	-0.004	2-60	5-100	M 3	10	8	5	+0.075	0.7	2							
	6A		-0.012				14	12		0									
	8	8	-0.005				12	10		7			+0.090	0.9	3				
	8A		-0.014				16	14					0						
	10	10	-0.006			M 6	15	13	9.6	0	1.15	4							
	10A						-0.017	20		17			-0.090						
	12	12					17	14		11.5			0	-0.110	1.35	5			
	13	13					18	15		12.4									
	15	15	20			17	14.3												
	16	16	21			18	15.2												
	17	17	-0.007	10-150	M10	23	20	16.2	0	-0.210	1.65								
	18	18				17													
	20	20				M12	26	24				19							
	20A					M 8													
	22	22				M16	28	26				21							
	22A					M12													
	25	25	-0.020	4-75	M16	31	27	23.9	0	-0.210	1.35	5							
	25A					M12													
	30	30				M20	36	32					28.6						
	30A					M16													

M	a
M 3~M10	5
M12~M20	7

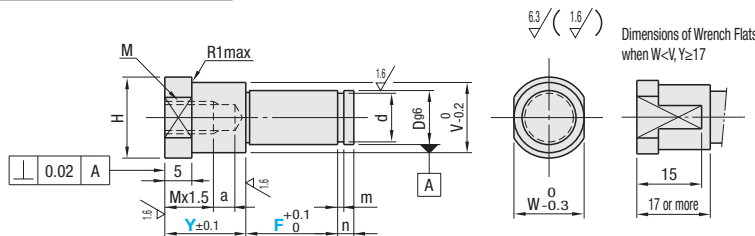
When (Mx1.5)+a≥Y+F, the pilot hole for M goes through.
When Mx1.5≥Y+F, M also goes through.

Stepped



RoHS 10

Type	Material	Surface Treatment
FXJA	EN 1.1191 Equiv.	Black Oxide
PFXJA	EN 1.1191 Equiv.	Electroless Nickel Plating
SFXJA	EN 1.4301 Equiv.	-



This type may have centering holes depending on dimensions.

Part Number		Dg6		1mm Increment		M	a	V	H	W	d		m	n	Unit Price					
Type	No.			Y	F	(Coarse)					Ref. Dim.	Tolerance			FXJA	PFXJA	SFXJA			
FXJA PFXJA SFXJA	6	6	-0.004	7~60	5~100	M 3	5	8	10	8	5	+0.075	0.7	2						
	6A		-0.012					12	14	12		0								
	8	8	-0.005					10	12	10		+0.090			0.9	3				
	8A		-0.014					14	16	14	0									
	10	10						13	15	13	0									
	10A							18	20	17	9.6	-0.090	1.15	4						
	12	12						15	17	14	11.5									
	13	13						16	18	15	12.4									
	15	15	-0.006					18	20	17	14.3	0								
	16	16	-0.017					19	21	18	15.2	-0.110								
	17	17		20		20	16.2													
	18	18		21	23	20	17													
	20	20		M12	24	26	24	19	0	-0.210	1.35	5								
	20A			M 8																
	22	22	-0.007	M12	26	28	26	21												
	22A		-0.020	M 8																
	25	25		M16	29	31	27	23.9												
	25A			M12																
	30	30		M20	34	36	32	28.6												
	30A			M16																

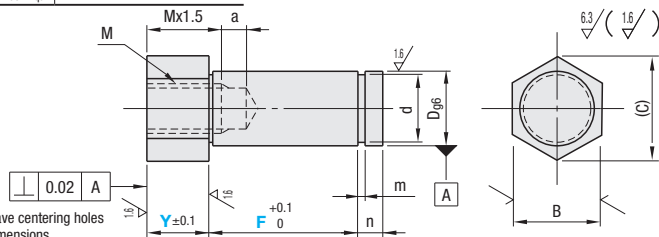
When W<V, wrench flats W reaches O.D.V. When (Mx1.5)+a≥Y+F, the pilot hole for M goes through. When Mx1.5≥Y+F, M also goes through.

Hex



RoHS 10

Type	Material	Surface Treatment
LXHA	EN 1.1191 Equiv.	Black Oxide
PLXHA	EN 1.1191 Equiv.	Electroless Nickel Plating
SLXHA	EN 1.4301 Equiv.	-

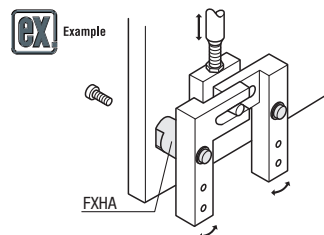


This type may have centering holes depending on dimensions.

Part Number		Dg6		1mm Increment		M (Coarse)	a	B	(C)	d		m	n	Unit Price			
Type	No.			Y	F					Ref. Dim.	Tolerance			LXHA	PLXHA	SLXHA	
LXHA PLXHA SLXHA	6	6	-0.004 -0.012	2~60	5~100	M 3	5	8	9.2	5	+0.075 0 0 0 -0.090	0.7	2				
	8	8	-0.005			M 4		10	11.5	7	+0.090	0.9	1.15	3			
	10	10	-0.014			M 6		13	15.0	9.6	0						
	12	12				M 8		14	16.2	11.5	-0.090						
	13	13			M10	17		19.6	12.4	0	-0.110	1.35			4		
	15	15	-0.006 -0.017			19		21.9	14.3	15.2							
	16	16				16.2											
	17	17		10~150	M12	7	24	27.7	19	17	0 -0.210	1.65	5				
	18	18					21										
	20	20					27	31.2	23.9	0							
	22	22					32	36.9	28.6	-0.210							
	25	25	-0.007 -0.020														
	25A																
	30	30					M20										
	30A			M16													

When (Mx1.5)+a≥Y+F, the pilot hole for M goes through. When Mx1.5≥Y+F, M also goes through.

Ordering Example	Part Number	-	Y	-	F
	FXHA12	-	5	-	F15
	PLXHA10	-	20	-	F35



Alterations	Part Number	-	Y	-	F	(YKC, WSC, APC, SET)
	FXHA15	-	20	-	F22	APC

Alterations	Y Dimension Tolerance	Four Wrench Flats	Adds a Pilot	Dimensions of Wrench Flats	Adds a Straight Slot	Y Dimension	Retaining Ring Set
Code	YKC	WSC	APC	FW	MM	YC	SET
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	Adds a pilot to the shaft seat. Applicable to all types. For 8A and 12A, pilot depth is 2mm. Ordering Code APC	Applies Wrench Flat Dimension Changes. 1mm Increment Ordering Code FW3 0≤FW≤15 When FW=0, there are no Wrench Flats. Applicable to Standard and Stepped Types.	Adds a straight slot to D. Ordering Code MM It will not be aligned with wrench flats. Applicable when (Mx15)+a<Y+F.	Increases Y dimension by increments. 0.1mm Increment Ordering Code YC10.8	Retaining Ring applicable to each shaft diameter is included. Ordering Code SET Applicable to all types. Retaining Ring Shape No.=6, 8, E Type Retaining Ring No.=10 ~ 30A, C Type Retaining Ring Retaining Ring Material Cantilever Shafts Material Surface Treatment Material EN 1.1191 Equiv. Black Oxide Spring Steel EN 1.4301 Equiv. Electroless Nickel Plating EN 1.4301 (CSP) Equiv.