



Locating Pins

Nonmagnetic Type

Feature: Nonmagnetic (Aluminum) Locating Pins. Does not magnetically affect the surroundings.

Locating Pins – Nonmagnetic Type

Type	Tip Shape	Material	Surface Treatment
Press Fit AFPMA AFPMD	Round Diamond	2017Aluminum Alloy	Clear Anodize
Tapped AFPMTA AFPMTD	Round Diamond	2017Aluminum Alloy	Clear Anodize
Threaded AFPMA AFPMD	Round Diamond	2017Aluminum Alloy	Clear Anodize

Press Fit
 $6.3/(0.4)^\circ$
 When $P < 3$, $a = 0.5$, $d = D - 0.1$
 When $P \geq 3$, $a = 1.0$, $d = D - 0.2$
 Relief dimension is reference value.

Tapped
 Relief dimension is reference value.

Threaded
 Relief dimension is reference value.

RoHS 10

Press Fit

Part Number Type	D	D Tolerance m6	P 0.01 mm Increment	L 1 mm Increment	B 0.1 mm Increment	C	m	(W)	ℓ	Compliance with Standard		Available Types	
										AFPMA	AFPMD	AFPMA	AFPMD
AFPMA AFPMD	1	+0.008	1.50-2.50	2-3	1.0-5.0	0.1	0.5	—	0	—	—	—	—
	2	+0.002	2.50-4.00	2-6	1.0-10.0	—	1	1.2	—	1.2	—	—	—
	3	—	3.50-6.00	3-6	1.0-10.0	0.5	2	1.5	—	1.5	—	—	—
	4	+0.012	4.50-7.00	4-8	1.0-10.0	—	—	1.8	—	1.8	—	—	—
	5	+0.004	5.50-8.00	5-10	1.0-10.0	1	3	2.2	—	2.2	—	—	—
	6	—	6.50-10.00	6-12	1.0-12.0	—	—	3	—	3	—	—	—
	8	+0.015	9.00-13.00	8-16	1.0-15.0	1.5	3	3.5	—	3.5	—	—	—
	10	+0.006	11.00-15.00	10-20	3.0-20.0	—	—	4	—	4	—	—	—
	12	—	13.00-16.00	12-24	3.0-20.0	2	4	5	—	5	—	—	—
	13	+0.018	14.00-18.00	13-26	5.0-20.0	—	—	5.5	—	5.5	—	—	—
	16	+0.007	17.00-25.00	16-32	5.0-20.0	3	5	7	—	7	—	—	—

Tapped

Part Number Type	D	D Tolerance g6	P 0.01 mm Increment	L 1 mm Increment	B 0.1 mm Increment	m	(W)	ℓ	M (Coarse)	Recommended Tightening Torque (kgf • cm)
AFPMTA AFPMTD	6	-0.004 -0.012	6.50-10.00	6 (9)-12	2.0-12.0	3	3	5	M3	6.25
	8	-0.005 -0.014	9.00-13.00	8 (12)-16	2.0-15.0	—	3.5	—	—	—
	10	—	11.00-15.00	10 (12)-20	3.0-20.0	4	4	8	M5	10
	12	—	13.00-16.00	12-24	3.0-20.0	—	—	—	—	—
	13	-0.006 -0.017	14.00-18.00	13 (14)-26	5.0-20.0	—	5.5	10	—	—
	16	—	17.00-25.00	16-32	5.0-20.0	5	7	12	M8	22.5

Ⓛ Dimension in () is applicable to Diamond Shape. Ⓢ Recommended tightening torque is reference value.
 Ⓣ Threads are prone to damage due to the soft material. Refer to the recommended tightening torque in the table for mounting.

Threaded

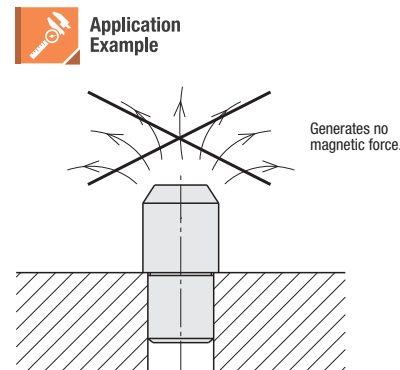
Part Number Type	D	D Tolerance g6	P 0.01 mm Inc.	L 1 mm Inc.	B 0.1 mm Inc.	m	(W)	M (Coarse)	Recommended Tightening Torque (kgfcm)
AFPMA AFPMD	3	-0.002 -0.008	3.50-6.00	0-6	1.0-10.0	2	1.5	3	5
	4	—	4.50-7.00	0-8	1.0-10.0	—	1.8	4	7
	5	-0.004 -0.012	5.50-8.00	0-10	1.0-10.0	3	2.2	5	8.75
	6	—	6.50-10.00	0-10	1.0-12.0	—	3	6	17.5
	8	-0.005 -0.014	9.00-13.00	0-10	1.0-15.0	4	3.5	8	18.75
	10	—	11.00-15.00	0-15	3.0-20.0	—	4	10	27.5
	12	-0.006 -0.017	13.00-18.00	0-15	3.0-20.0	—	5	12	92.5
	16	—	17.00-25.00	0-20	5.0-20.0	5	7	16	100

Ⓢ Recommended tightening torque is reference value. Ⓣ Threads are prone to damage due to the soft material. Refer to the recommended tightening torque in the table for mounting. Ⓛ For full thread, specify L = 0 and alteration NNC.

Part Number Example AFPMA6 - P8.50 - L6 - B3.0

Part Number Alterations AFPMTA10 - P12.00 - L15 - B6.0 - AC

Alterations	Tapping	Air Vent	Relief	Radius
	MH	AC	NNC	RC
Code	MH	AC	NNC	RC
Spec.	Tapped end -Ordering Code: MH -Applies to D≥6 -B≥L+4 -M+2≥P-2 x tan15° (≈0.27) -Not applicable for tapped pins	Wrench Hole Dim. D MH (Coarse) ℓ ₂ 6 M3 4 8-13 M4 6 16 M6 9	Adds an air vent. -Not applicable to threaded type. Ordering Code: NNC -Applicable when L=0 -Adds a relief at the thread end.	Changes the relief to R0.5. Ordering Code: RC



Locating Pins

Large Head with Resin Tip

Features: Plastic material bonded to the tip of insertion guide prevents workpiece from being scratched.

Locating Pins – Large Head with Resin Tip

Material No.	Material	Pin Hardness	Head Plastic Material	Type	D Tolerance & Shape Code
(1)	O1 Tool Steel	Treated Hardness: 60-63 HRC min.	MC Nylon	JPPH	B Standard, m6
(2)	304 Stainless Steel	—		SJPPH	PB Standard, p6
(3)	440C or 420 Stainless Steel	Treated Hardness: 50-55 HRC min.		CJPPH	TA Tapped, g6

Ⓢ Features of MC Nylon P.3067
 Ⓣ 440C or 420 Stainless Steel has an identification groove on D mounting section.

Standard **Tapped** **Threaded**

Ⓢ Features of MC Nylon P.3067
 Ⓣ 440C or 420 Stainless Steel has an identification groove on D mounting section.

Ⓢ Relief dimension is reference value.
 Ⓣ When L=0, no relief is provided. Specify alteration NNC.

*Insertion Guide is applicable to tolerance p6 type only.

Standard

Type	Shape Code	D	D Tolerance		P 0.01 mm Increment	L 1 mm Increment	B 0.1 mm Increment	C	m	x	ℓ
			m6	p6							
JPPH SJPPH CJPPH	B m6 PB p6	5	+0.012	+0.020	5.50-8.00	5-10	2.0-10.0	1	5	4	1
		6	+0.004	+0.012	6.50-10.00	6-12	2.0-12.0	1.5			
		8	+0.015	+0.024	9.00-13.00	8-16	2.0-15.0	—			
		10	+0.006	+0.015	11.00-15.00	10-20	3.0-20.0	—			
		12	+0.018	+0.029	13.00-16.00	12-24	—	—			
		13	+0.007	+0.018	14.00-18.00	13-26	—	—			
		16	+0.021	+0.035	17.00-25.00	16-32	—	—			
		20	+0.008	+0.022	22.00-30.00	20-40	5.0-20.0	3	6	5	2

Tapped

Type	Shape Code	D	D Tolerance g6	P 0.01 mm Increment	L 1 mm Increment	B 0.1 mm Increment	m	x	M (Coarse)		ℓ
									M	ℓ	
JPPH SJPPH CJPPH	TA	5	-0.004	5.50-8.00	5-10	2.0-10.0	5	4	M2	3	—
		6	-0.012	6.50-10.00	6-12	2.0-12.0			M3	5	
		8	-0.005	9.00-13.00	8-16	2.0-15.0			—	—	
		10	-0.014	11.00-15.00	10-20	3.0-20.0			—	—	
		12	-0.006	13.00-16.00	12-24	—			—	—	
		13	-0.017	14.00-18.00	13-26	—	—	—			
		16	-0.007	17.00-25.00	16-32	—	—	—			
		20	-0.020	22.00-30.00	20-40	5.0-20.0	6	5	M6	9	

Ⓢ When D=5, L+B≥Mx4+1 When D≥6, L+B≥Mx3+1

*The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on MISUMI 2019 catalog P.4015). Not applicable when using locking agents or spring washers.

Threaded

Type	Shape Code	D	D Tolerance g6	P 0.01 mm Increment	L 1 mm Increment	B 0.1 mm Increment	m	x	M (Coarse)	
									M	ℓ
JPPH SJPPH CJPPH	NA	5	-0.004	5.50-8.00	0-10	2.0-10.0	5	4	M5	—
		6	-0.012	6.50-10.00	0-10	2.0-12.0			M6	—
		8	-0.005	9.00-13.00	0-10	2.0-15.0			M8	—
		10	-0.014	11.00-15.00	0-15	3.0-20.0			M10	—
		12	-0.006	13.00-16.00	0-15	—			M12	—
		16	-0.017	17.00-25.00	0-20	—	M16	—		
		20	-0.007	22.00-30.00	0-20	5.0-20.0	6	5	M20	—

*The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on MISUMI 2019 catalog P.4015). Not applicable when using locking agents or spring washers.

Part Number Example JPPH B 8 - P10.00 - L10 - B5.5
CJPPH TA 16 - P25.00 - L22 - B13.0

Part Number Alterations SJPPHB10 - P15.00 - L12 - B6.4 - RC

Alteration	Wrench Hole	Relief	Radius
		LAC	NNC
Code	LAC	NNC	RC
Spec.	Machines wrench hole. -Ordering Code: LAC -Applies to D≥6 -The diamond-shaped wrench hole opens vertically. The direction is arbitrary.	Ordering Code: NNC -Applicable when L=0 -Adds a relief at the thread end. -Can not be combined with RC alteration.	Changes the relief to R0.5. Ordering Code: RC -Applicable when P-D≥2.
	D B Applicable Dim. Wrench Hole Dim. P Q 6 5.0~ 6.50-9.99 2 8 5.0~ 10.00-16.99 3.5 10 5.0~ 17.00~ 5 12 5.0~ 16 5.0~ 20 5.0~		