For **Pricing** and **Days to Ship**, Please Configure Online.

Locating Pins for Fixtures - Standard Grade, Round Edge

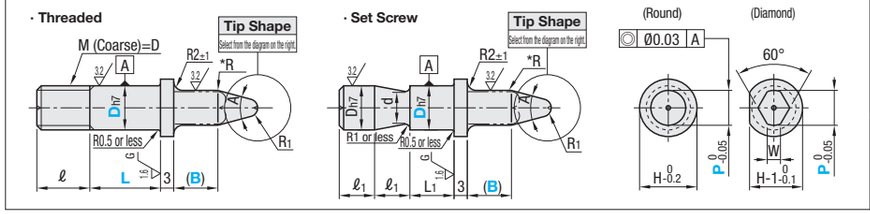
Tip Shape Selectable

Feature: Addition of a radius to the edge makes for smooth insertion and extraction of workpiece. For damage prevention, radius is added to upper-lower surface of shoulder.

Shouldered RoHS

Type: Threaded	Type: Set Screw	Type: Shape	M Material	H Hardness
RANA	RATA	Round	4137 Alloy Steel	Treated Hardness 35~40HRC
RAND	RATD	Diamond		
TRANA	TRATA	Round	SCM415 Alloy Steel (JIS)	Carburized Treated Hardness: 55HRC~(Depth 0.7~0.8) Anti-carburizing on Threads
TRAND	TRATD	Diamond		

*A30=R10
A60, 90, 120=R3, however, for A90, 120 of B Shape, only edge part will be removed as the tip becomes short.
Reference: sin15°≈0.259 sin30°=0.5 sin45°≈0.707 sin60°≈0.866
tan15°≈0.267 tan30°=0.577 tan45°=1 tan60°≈1.732



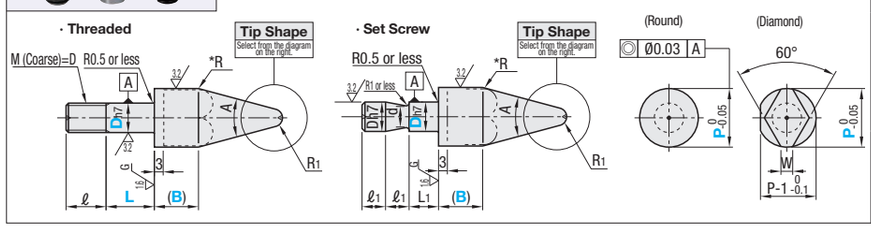
Part Number: Type	Tip Shape	Dh7	P 0.1mm Increment	B 1mm Increment	L	A	E (Shape A) 1mm Increment	ℓ	L1	ℓ1	d	Applicable Set Screw	H	R1	W	Unit Price: RANA RATA	RAND RATD	TRANA TRATA	TRAND TRATD
Threaded RANA RAND TRANA TRAND / Set Screw RATA RATD TRATA TRATD	A	6 (0 -0.015)	3.0~7.0	5~30 (B≤Px4)	5 8 10	30 60 90 120	3~10	6	8	8	4	M5	9	1	1				
		8	3.0~9.0		5 8 10 12 15			10			5		11	1.5	(2)				
		10	4.5~12.0		(5) (8) 10 12 15			12	10		7	M6	13	2	1~3				
		10T						18	5										
	B	12 (0 -0.018)	9.0~13.0		(8) 10 12 15 18			15	12	10	9	M8	15	3	4				
		16	13.0~16.0		(10) 12 15 18 20			18			13		19		5				

W Dimension D6, 8, 10, 10T: W=1 when P>5.0 D10, 10T: W=1 when P<5.0, W=2 when 5.0≤P≤7.0, W=3 when P>7.0 ⊗L dimension in ( ) is not applicable to Diamond Shape.

No Shoulder RoHS

Type: Threaded	Type: Set Screw	Type: Shape	M Material	H Hardness
RNNA	RNTA	Round	4137 Alloy Steel	Treated Hardness 35~40HRC
RNND	-	Diamond		
TRNNA	TRNTA	Round	SCM415 Alloy Steel (JIS)	Carburized Treated Hardness: 55HRC~(Depth 0.7~0.8) Anti-carburizing on Threads
TRNND	-	Diamond		

*A30, 60=R10
A90, 120=R3
Reference: sin15°≈0.259 sin30°=0.5 sin45°≈0.707 sin60°≈0.866
tan15°≈0.267 tan30°=0.577 tan45°=1 tan60°≈1.732



Part Number: Type	Tip Shape	Dh7	P 0.1mm Increment	B 1mm Increment	L	A	E (Shape A) 1mm Increment	ℓ	L1	ℓ1	d	Applicable Set Screw	R1	W	Unit Price: RNNA RNTA	RNND	TRNNA TRNTA	TRNND
Threaded RNNA RNND TRNNA TRNND / Set Screw RNTA TRNTA	A	6 (0 -0.015)	9.0~12.0	5~30 (B≤Px3)	5 8 10	30	3~10	6	8	8	4	M5	3	3				
		8	11.0~16.0		5 8 10 12 15	60		10			5			3.5				
		10	13.0~20.0		(5) (8) 10 12 15			12	10		7	M6		4				
		10T						18	5				5	5				
	B	12 (0 -0.018)	15.0~25.0	5~30 (B≤Px4)	(8) 10 12 15 18	90		15	12	10	9	M8		6				
		16	19.0~32.0		(10) 12 15 18 20	120		18			13		6	8				
		20 (0 -0.021)	23.0~35.0		12 15 18 20			22			17			9				

⊗L dimension in ( ) is not applicable to Diamond Shape.

Ordering Example

Part Number												
Type	Tip Shape	D	-	P	-	B	-	L	-	A	-	E
RANA	A	10	-	P8.8	-	B10	-	L10	-	A30	-	E5
RNTA	B	10	-	P15.0	-	B15	-	L12	-	A60		

Alterations

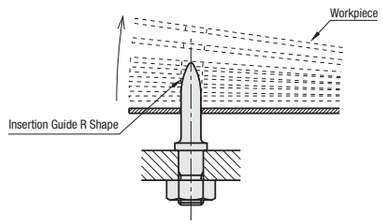
Part Number														
RNNDA10	-	P13.8	-	B10	-	L10	-	A60	-	E5	-	KC

Alterations	Flat Position	Wrench Flats
	Shouldered 0° / No Flange 0°	H1 H
Code	KC	SC
Spec.	Ordering Code KC Changes the flat position to 90° from the standard position 0°. Applicable to Diamond Shape Type only.	Ordering Code SC Adds wrench flats. H 9 11 13 15 19 H1 7 8 11 13 17 Applicable to Round Shape with Shoulder Type only.
Price Adder		

Days to Ship: Configure Online

Price: Configure Online

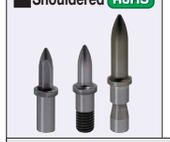
Example Workpiece insertion and extraction is smooth as the insertion guide has an R shape.



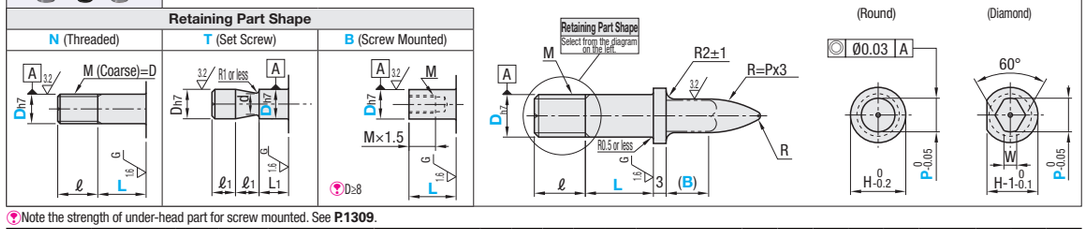
Locating Pins for Fixtures - Standard Grade, Bullet Nose

Feature: R shape at insertion guide enables smooth insertion of workpiece.

Shouldered RoHS



Type	Retaining Part Shape	Shape	M Material	H Hardness
HATA	N (Threaded) T (Set Screw) B (Screw Mounted)	Round	4137 Alloy Steel	Treated Hardness 35~40HRC
HATD		Diamond		
THATA		Round	SCM415 Alloy Steel (JIS)	Carburized Treated Hardness: 55HRC~(Depth 0.7~0.8) Anti-carburizing on Threads
THATD		Diamond		



Note the strength of under-head part for screw mounted. See **P.1309**.

Part Number: Type	Retaining Part Shape	Dh7	P 0.1mm Increment	B 1mm Increment	L: Threaded Selection	L: Screw Mounted 1mm Increment	ℓ	L1	ℓ1	d	Applicable Set Screw	M (Coarse) Screw Mounted	H	R	W
HATA HATD THATA THATD	N (Threaded) T (Set Screw) B (Screw Mounted)	6 (0 -0.015)	3.0~7.0	5~30 (B≤Px4)	5 8 10	-	6	8	8	4	M5	-	9	1	1
		8	3.0~9.0		5 8 10 12 15	12~20	10			5		M4	11		(2)
		10	4.5~12.0		(5) (8) 10 12 15	15~30	12	10		7	M6	M5	13		1~3
		10T					18	5				M6			
		12 (0 -0.018)	9.0~13.0		(8) 10 12 15 18		15	12	10	9	M8	M5	15		4
		16	13.0~16.0		(10) 12 15 18 20	20~40	18			13		M8	19	2	5

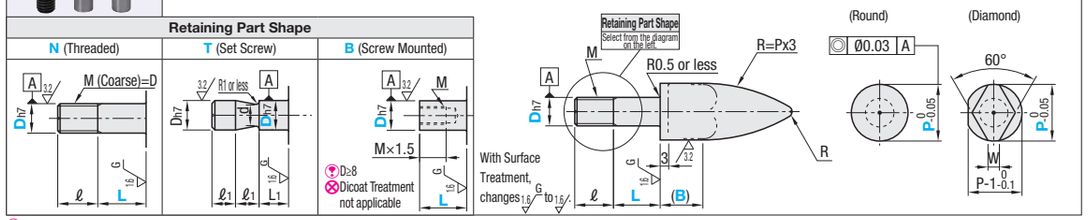
W Dimension D6, 8, 10, 10T: W=1 when P>5.0 D10, 10T: W=1 when P<5.0, W=2 when 5.0≤P≤7.0, W=3 when P>7.0 ⊗L dimension in ( ) is not applicable to Diamond Shape.

D	Unit Price: HATAN HATAT	HATDN HATDT	THATAN THATAT	THATDN THATDT	HATAB	HATDB	THATAB	THATDB
6					-	-	-	-
8								
10								
10T								
12								
16								

No Shoulder RoHS

Type	Retaining Part Shape	Shape	M Material	H Hardness
HNTA	N (Threaded) T (Set Screw) B (Screw Mounted)	Round	4137 Alloy Steel	Treated Hardness 35~40HRC
THNTA		Round	SCM415 Alloy Steel (JIS)	Carburized Treated Hardness: 55HRC~(Depth 0.7~0.8) Anti-carburizing on Threads
THNTD		Diamond		

Type	Retaining Part Shape	Shape	M Material	H Hardness	S Surface Treatment
D-HNTA	N (Threaded) T (Set Screw)	Round	D2 Tool Steel	55HRC~ (Surface 3000HV)	Dicoat® Treated
D-HNTD		Diamond			



Note the strength of under-head part for screw mounted. See **P.1309**.

Part Number: Type	Retaining Part Shape	Dh7	P 0.1mm Increment	B 1mm Increment	L: Threaded Selection	L: Screw Mounted 1mm Increment	ℓ	L1	ℓ1	d	Applicable Set Screw	M (Coarse) Screw Mounted	R	W
HNTA THNTA THNTD D-HNTA D-HNTD	N (Threaded) T (Set Screw) B (Screw Mounted)	6 (0 -0.015)	9.0~12.0	5~30 (B≤Px3)	5 8 10	-	6	8	8	4	M5	-	2	3
		8	11.0~16.0		5 8 10 12 15	10~20	10			5		M4		3.5
		10	13.0~20.0	5~30 (B≤Px4)	(5) (8) 10 12 15	10~30	12	10		7	M6	M5		4
		10T					18	5				M6		5
		12 (0 -0.018)	15.0~25.0		(8) 10 12 15 18		15	12	10	9	M8	M5	3	6
		16	19.0~32.0		(10) 12 15 18 20	10~32	18			13		M8		8
		20 (0 -0.021)	23.0~35.0		12 15 18 20	10~40	22			17		M10		9

⊗L dimension in ( ) is not applicable to Diamond Shape and Dicoat® treatment.

D	Unit Price: HNTAN HNTAT	THNTAN THNTAT	THNTDN THNTDT	D-HNTAN D-HNTAT	D-HNTDN D-HNTDT	HNTAB	THNTAB	THNTDB
6						-	-	-
8								
10								
10T								
12								
16				-	-			
20				-	-			

Ordering Example

Part Number								
Type	Retaining Part Shape	D	-	P	-	B	-	L
HATA	N	8	-	P7.8	-	B15	-	L8
HNTA	T	8	-	P12.0	-	B15		

Alterations

Part Number								
HATDB8	-	P4.5	-	B10	-	L12	-	KC

Alterations	Flat Position	Wrench Flats
	Shouldered 0° / No Flange 0°	H1 H
Code	KC	SC
Spec.	Ordering Code KC Changes the flat position to 90° from the standard position 0°. Applicable to Diamond Shape Type only.	Ordering Code SC Adds wrench flats. H 9 11 13 15 19 H1 7 8 11 13 17 Applicable to Round Shape with Shoulder Type only.
Price Adder		

Days to Ship: Configure Online

Price: Configure Online