


Locating Pins for Fixtures - Standard Grade, Round Edge

Tip Shape Selectable

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

Shouldered



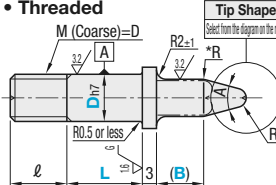
RoHS

Type			Material	Hardness
Threaded	Set Screw	Shape		
RANA	RATA	Round	EN 1.7220 Equiv.	Treated Hardness 35~40HRC
RAND	RATD	Diamond		
TRANA	TRATA	Round	EN 1.7242 Equiv.	Carburized Treated Hardness: 55HRC~ (Depth: 0.7 ~ 0.8) / Anti-carburizing on Threads
TRAND	TRATD	Diamond		

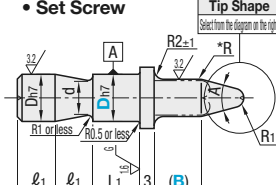
* A30=R10
A60, 90, 120=R3, however, for B Shape, only edge part will be removed as the tip becomes short.

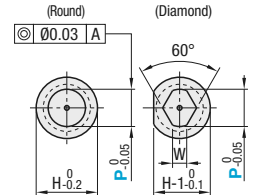
Reference: $\sin 15^\circ=0.259$ $\sin 30^\circ=0.5$ $\sin 45^\circ=0.707$ $\sin 60^\circ=0.866$
 $\tan 15^\circ=0.267$ $\tan 30^\circ=0.577$ $\tan 45^\circ=1$ $\tan 60^\circ=1.732$

• Threaded



• Set Screw






Type		Tip Shape	D _{h7}	P 0.1mm Increment	B 1mm Increment	L Selection	A Selection	E (Shape A) 1mm Increment	ℓ	L ₁	ℓ ₁	d	Applicable Set Screw	H	R ₁	W	Unit Price										
Threaded	Set Screw																RANA	RATA	RAND	RATD	TRANA	TRATA	TRAND	TRATD			
Hardened (Round) RANA	Carburized (Round) TRANA	A	6	0 - 0.015	3.0~7.0	5 8 10	30	3~10	6	8	8	4	M5	9	1	1~2											
			8		3.0~9.0	5 8 10 12 15			10	8	8	5	M5	11	1.5	1~2											
			10T		4.5~12.0	(5) (8) 10 12 15			12	10	8	7	M6	13	2	1~3											
(Diamond) RNAD	(Diamond) TRAD	B	12	0 - 0.018	9.0~13.0	(8) 10 12 15 18	90	3~10	15	12	10	9	M8	15	3	4											
			16		13.0~16.0	(10) 12 15 18 20			18	12	10	13	M8	19	3	4											
			18																								

⊕ 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



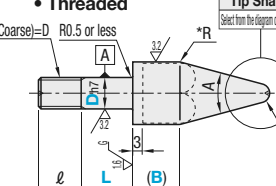
RoHS

Type			Material	Hardness
Threaded	Set Screw	Shape		
RNNA	RNTA	Round	EN 1.7220 Equiv.	Treated Hardness 35~40HRC
RNND	RNTD	Diamond		
TRNNA	TRNTA	Round	EN 1.7242 Equiv.	Carburized Treated Hardness: 55HRC~ (Depth: 0.7 ~ 0.8) / Anti-carburizing on Threads
TRNND	TRNTD	Diamond		

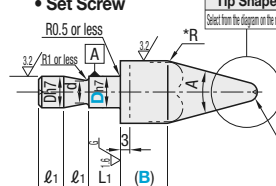
* A30, 60=R10
A90, 120=R3

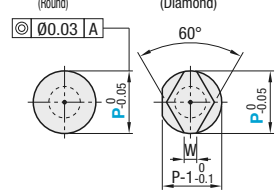
Reference: $\sin 15^\circ=0.259$ $\sin 30^\circ=0.5$ $\sin 45^\circ=0.707$ $\sin 60^\circ=0.866$
 $\tan 15^\circ=0.267$ $\tan 30^\circ=0.577$ $\tan 45^\circ=1$ $\tan 60^\circ=1.732$

• Threaded



• Set Screw



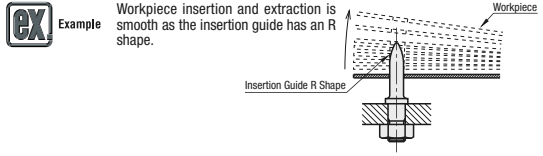


Type		Tip Shape	D _{h7}	P 0.1mm Increment	B 1mm Increment	L Selection	A Selection	E (Shape A) 1mm Increment	ℓ	L ₁	ℓ ₁	d	Applicable Set Screw	H	R ₁	W	Unit Price									
Threaded	Set Screw																RNNA	RNTA	RNND	RNTD	TRNNA	TRNTA	TRNND	TRNTD		
Hardened (Round) RNNA	Carburized (Round) TRNNA	A	6	0 - 0.015	9.0~12.0	5 8 10	30	3~10	6	8	8	4	M5	3	3											
			8		11.0~16.0	5 8 10 12 15			10	8	8	5	M5	11	3	3.5										
			10T		13.0~20.0	(5) (8) 10 12 15			12	10	8	7	M6	3	4											
(Diamond) RNND	(Diamond) TRND	B	12	0 - 0.018	15.0~25.0	(8) 10 12 15 18	90	3~10	15	12	10	9	M8	5	6											
			16		19.0~32.0	(10) 12 15 18 20			18	12	10	13	M8	6	8											
			20		23.0~35.0	12 15 18 20			22	12	10	17	M8	6	9											

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

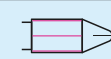


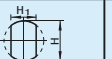


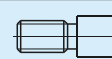
Ordering Example

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



Alterations

Part Number	P	B	L	A	E	(KC, SC)
RNDA10	P13.8	B10	L10	A60	E5	KC

Alterations	Wear Groove Alterations	Flat Position	Wrench Flats	Flat Machining	Thread Dia.	Relief
		Shouldered 0°  No Shoulder 0° 				
Code	MK	KC	SC	KD	MC	NNC
Spec.	Drill 4 grooves at B Dimension. The wear and tear of the grooves indicates the degree of wear. ⊕ Applicable to Hardening, Carburized and Round Shape Products only ⊕ The groove starts from the area of R value + 1 mm. Groove Depth: 0.2mm Groove Shape: V Groove	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 H: 7 8 11 13 17 ⊕ Applicable to Round Shape with Shoulder Type only.	Ordering Code KD Machining on one side. ⊕ Applicable to Round Shape Type only. ⊕ H-P≥2	Ordering Code MC8 Changes the thread diameter. ⊕ D/3≤M<D ⊕ Mmin3 ⊕ Applicable to Threaded only.	Ordering Code NNC Adds a relief at the thread end. ⊗ Not applicable to Set Screw Type. ⊗ For damage prevention, Dicoat® treatment is not applicable.