


Locating Pins for Fixtures

Tip Shape Selectable, Precision Grade, No Shoulder

Features: For Precision Grade, P Dim. Tolerance is 0 or -0.02 (for Standard Grade, 0), concentricity is 0.01 or 0.02 (for Standard Grade, 0.03 or 0.05). Tip shape is selectable.

Threaded

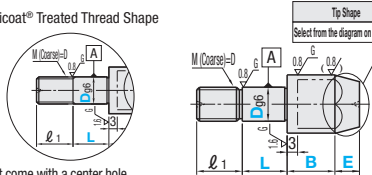


RoHS10

Type	Material	Hardness
SLNNA Round	SCM435	35-40HRC
SLNND Diamond	SCM435	35-40HRC
TSLNNA Round	SCM415	Carburized 55HRC-(Depth: 0.7-0.8)
TSLNND Diamond	SCM415	Carburized 55HRC-(Depth: 0.7-0.8) / Anti-carburizing on Threads

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

1 Dicoat® Treated Thread Shape



Type	Material	Hardness	Surface Treatment
R-SNNA Round	SCM435	35-40HRC (Surface 750HV-)	Hard Chrome Plating
R-SNND Diamond	SCM435	35-40HRC (Surface 750HV-)	Hard Chrome Plating
D-SNNA Round	SKD11 Equivalent	55HRC~ (Surface 3000HV)	Dicoat® Treated
D-SNND Diamond	SKD11 Equivalent	55HRC~ (Surface 3000HV)	Dicoat® Treated

Dicoat® Treated items will have the () precision and Thread Shape will be 1.

Tip Shape Selectable


Shape	Diagram	Notes
Shape A		<ul style="list-style-type: none"> The center hole remains $P = 2 \tan(A/2) \pm 0.73$ $P = 2 \tan(A/2) \pm 2$ (Dicoat®)
Shape B		<ul style="list-style-type: none"> The center hole remains $e = P/2 \tan(A/2) + R - R \sin(A/2)$

Only the Shape B Dicoat® Treated items do not come with a center hole.

Part Number	Type	Tip Shape	Dg6	P 0.1mm Increment	B 1mm Increment	L Selection	A Selection	E 1mm Increment	l1	R	W	Unit Price							
												SLNNA	SLNND	TSLNNA	TSLNND	R-SNNA	R-SNND	D-SNNA	D-SNND
Hardened (Round) (Round) (Round) (Round) (Diamond) (Diamond) (Diamond) (Diamond)	A (Tapered)	6	-0.004 -0.012	8.0-12.0		5 8 10		30		6	3	3							
		8		10.0-16.0		5 8 10 12 15		60	1-10	10	4	3.5							
		10	-0.005 -0.014	12.0-20.0		(5) (8) 10 12 15		90		12	4	4							
		10T		12.0-20.0	2-30	(5) (8) 10 12 15		120		15	5	5							
		12	-0.006 -0.017	14.0-25.0		(8) 10 12 15 18				15	6	6							
	B (Taper R)	16		18.0-32.0		(10) 12 15 18 20				18	8	8							
		20	-0.007 -0.020	22.0-35.0		12 15 18 20				22	8	9							

Angle A*30 is not applicable to Tip Shape B. Select from Precision Grade, No Shoulder (P1695). B Dimension is selectable from 5 mm ~ for Dicoat® Treated / Diamond Shape.

Set Screw

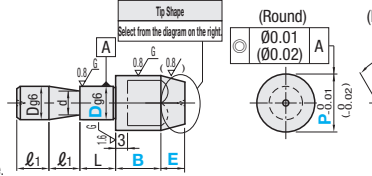


RoHS10

Type	Material	Hardness
SLNTA Round	SCM435	Hardening 35-40HRC
SLNTD Diamond	SCM435	Hardening 35-40HRC
TSLNTA Round	SCM415	Carburized 55HRC-(depth 0.7-0.8) / Anti-carburizing on Threads
TSLNTD Diamond	SCM415	Carburized 55HRC-(depth 0.7-0.8) / Anti-carburizing on Threads

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

1 Dicoat® Treated items will have the () precision and Thread Shape will be 1.



Type	Material	Hardness	Surface Treatment
R-SNTA Round	SCM435	35-40HRC (Surface 750HV-)	Hard Chrome Plating
R-SNTD Diamond	SCM435	35-40HRC (Surface 750HV-)	Hard Chrome Plating
D-SNTA Round	SKD11 Equivalent	55HRC~ (Surface 3000HV)	Dicoat® Treated
D-SNTD Diamond	SKD11 Equivalent	55HRC~ (Surface 3000HV)	Dicoat® Treated

Tip Shape Selectable

Shape	Diagram	Notes
Shape A		<ul style="list-style-type: none"> The center hole remains $P = 2 \tan(A/2) \pm 0.73$ $P = 2 \tan(A/2) \pm 2$ (Dicoat®)
Shape B		<ul style="list-style-type: none"> The center hole remains $e = P/2 \tan(A/2) + R - R \sin(A/2)$

Only the Shape B Dicoat® Treated items do not come with a center hole.

Part Number	Type	Tip Shape	Dg6	P 0.1mm Increment	B 1mm Increment	L Selection	l1	d	R	Applicable Set Screw	W	Unit Price							
												SLNTA	SLNTD	TSLNTA	TSLNTD	R-SNTA	R-SNTD	D-SNTA	D-SNTD
Hardened (Round) (Round) (Round) (Round) (Diamond) (Diamond) (Diamond) (Diamond)	A (Tapered)	6	-0.004 -0.012	8.0-12.0		5 8 4 3				M5	3								
		8		10.0-16.0		5 8 5 4				M5	3.5								
		10	-0.005 -0.014	12.0-20.0		10 8 7 4				M6	4								
		10T		12.0-20.0	2-30	5 8 7 5				M6	5								
		12	-0.006 -0.017	14.0-25.0		12 10 9 6				M8	6								
	B (Taper R)	16		18.0-32.0		12 10 13 8				M8	8								
		20	-0.007 -0.020	22.0-35.0		12 10 17 8				M8	9								

Angle A*30 is not applicable to Tip Shape B. Select from Precision Grade, No Shoulder (P1695). B Dimension is selectable from 5 mm ~ for Dicoat® Treated / Diamond Shape.

Part Number: **P - B - L - A - E**

Type: **SLNND** A 6 - P8.0 - B14 - L8 - A30 - E2
SLNTA B 8 - P12.0 - B15 - - A60

Alterations: **D - P - B - L - A - E - (KD, MC)**

Type: **D-SNNA** B 10 - P12.0 - B10 - L5 - A60 - - KD

Alterations	Wear Groove Alterations	Flat Machining	Thread Dia.	Flat Position	Thread Length
Code	MK	KD	MC	KC	FC
Spec.	Drill 4 grooves at B Dimension. The wear and tear of the grooves indicate the degree of wear. <ul style="list-style-type: none"> Applicable to Hardening, Carburized and Round Shape Products only Applicable when B ≥ 4 Groove Depth: 0.2mm (±0.05mm) Groove Shape: V Groove (90°) 	Ordering Code KD Machining on one side. Applicable to Round Shape Type only.	Ordering Code MC8 Changes the thread diameter. D/3:M<D Mmin3 Applicable to Threaded only.	Ordering Code KC Changes the flat position to 90° from the standard position 0°. Applicable to Diamond Shape Type only.	Ordering Code FC15 Changes the thread length. FC=1mm Increment D5-10 :M<FC:MC3 D12, 16:M<FC:MC2.5 D20 :M<FC:MC2 D30 :M<FC:MC2 Applicable to Threaded only. Not applicable to Dicoat® and TON treatment.