

Locating Pins for Fixtures

Precision Grade, No Shoulder

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

Threaded

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
LNNAN	Round EN 1.7220	Hardening 35~40HRC	R-NNAN	Round EN 1.7220	35~40HRC	Hard Chrome
LNNND	Diamond	Equiv.	R-NNND	Diamond	Equiv.	Plating
TLNNAN	Round EN 1.7242	Carburized 55HRC~ (depth 0.7~0.8) / Anti-carburizing on Threads	D-NNAN	Round EN 1.2379	55HRC~ (Surface 3000HV)	Dicoat® Treated
TLNNND	Diamond	Equiv.	D-NNND	Diamond	Equiv.	

Reference: $\sin 15^\circ = 0.259$, $\tan 15^\circ = 0.267$

Ⓢ Dicoat® Treated items will have the () precision and Thread Shape will be Ⓢ1. $6.3 / \sqrt[3]{(1.5 \frac{G}{0.8} \frac{0.8}{0.8} \frac{0.8}{0.8})}$

Ⓢ1 Dicoat® Treated Thread Shape

Ⓢ e=P/2tan15°+R-(R/sin15°)
Ⓢ Dicoat® Treated items do not come with a center hole.

Part Number	Type	Dg6	P 0.1mm Increment	B 1mm Increment	L Selection	L1	R	W	Unit Price													
									LNNAN	LNNND	TLNNAN	TLNNND	R-NNAN	R-NNND	D-NNAN	D-NNND						
Hardened (Round) LNNAN	Carburized (Round) TLNNAN	Hard Chrome (Round) R-NNAN	Dicoat (Round) D-NNAN	6	-0.004 -0.012	8.0-12.0	5 8 10	6 3 3														
				8	-0.005 -0.014	10.0-16.0	5 8 10 12 15	10 4 3.5														
				10	-0.005 -0.014	12.0-20.0	(5) (8) 10 12 15	12 4 4														
				10T	-0.006 -0.017	12.0-20.0	(5) (8) 10 12 15	15 5 5														
(Diamond) LNNND	(Diamond) TLNNND	(Diamond) R-NNND	(Diamond) D-NNND	12	-0.006 -0.017	14.0-25.0	(8) 10 12 15 18	15 6 6														
				16	-0.007 -0.020	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														

Ⓢ L dimension in () is not applicable to Diamond Shape and Dicoat® treatment. Ⓢ B Dimension is selectable from 5 mm ~ for Dicoat® Treated / Diamond Shape.

Set Screw

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
LNTAN	Round EN 1.7220	Hardening 35~40HRC	R-NTAN	Round EN 1.7220	35~40HRC	Hard Chrome
LNTDN	Diamond	Equiv.	R-NTDN	Diamond	Equiv.	Plating
TLNTAN	Round EN 1.7242	Carburized 55HRC~ (depth 0.7~0.8) / Anti-carburizing on Threads	D-NTAN	Round EN 1.2379	55HRC~ (Surface 3000HV)	Dicoat® Treated
TLNTDN	Diamond	Equiv.	D-NTDN	Diamond	Equiv.	

Reference: $\sin 15^\circ = 0.259$, $\tan 15^\circ = 0.267$

Ⓢ Dicoat® Treated items will have the () precision. $6.3 / \sqrt[3]{(1.5 \frac{G}{0.8} \frac{0.8}{0.8} \frac{0.8}{0.8})}$

Ⓢ e=P/2tan15°+R-(R/sin15°)
Ⓢ Dicoat® Treated items do not come with a center hole.

Part Number	Type	Dg6	P 0.1mm Increment	B 1mm Increment	L Selection	L1	d	R	Applicable Set Screw	W	Unit Price											
											LNTAN	LNTDN	TLNTAN	TLNTDN	R-NTAN	R-NTDN	D-NTAN	D-NTDN				
Hardened (Round) LNTAN	Carburized (Round) TLNTAN	Hard Chrome (Round) R-NTAN	Dicoat (Round) D-NTAN	6	-0.004 -0.012	8.0-12.0	5 8 4 3	M5	3													
				8	-0.005 -0.014	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	-0.006 -0.017	12.0-20.0	5 8 7 5	M6	5													
(Diamond) LNTDN	(Diamond) TLNTDN	(Diamond) R-NTDN	(Diamond) D-NTDN	12	-0.006 -0.017	14.0-25.0	12 10 9 6	M8	6													
				16	-0.007 -0.020	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													

Ⓢ B Dimension is selectable from 5 mm ~ for Dicoat® Treated / Diamond Shape.

Ordering Example

Part Number: LNNAN 6 - P8.0 - B14 - L10

Type D - P - B - L

LNNAN 6 - P8.0 - B14 - L10

LNTAN 8 - P12.0 - B12

Alterations

Part Number: LNNAN 10 - P12.0 - B10 - L5 - KD

Type D - P - B - L - (KD, MC)

LNNAN 10 - P12.0 - B10 - L5 - 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. Ⓢ 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 Changes the flat position to 90° from the standard position 0°. Ⓢ Applicable to Diamond Shape Type only.	Ordering Code MC8 Changes the thread diameter. Ⓢ D/3:M-C 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 D6-10 -M:FC-MM3 D12, 16-M:FC-MM2.5 D20 -M:FC-MM2 Ⓢ Applicable to Threaded only. Ⓢ Not applicable to Dicoat® and TiCN treatment.

Locating Pins for Fixtures

Tip Shape Selectable, Precision Grade, No Shoulder

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

Threaded

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
SLNNA	Round EN 1.7220	Hardening 35~40HRC	R-SNNA	Round EN 1.7220	35~40HRC	Hard Chrome
SLNND	Diamond	Equiv.	R-SNND	Diamond	Equiv.	Plating
TSLNNA	Round EN 1.7242	Carburized 55HRC~ (depth 0.7~0.8) / Anti-carburizing on Threads	D-SNNA	Round EN 1.2379	55HRC~ (Surface 3000HV)	Dicoat® Treated
TSLNND	Diamond	Equiv.	D-SNND	Diamond	Equiv.	

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

Ⓢ Dicoat® Treated items will have the () precision and Thread Shape will be Ⓢ1. $6.3 / \sqrt[3]{(1.5 \frac{G}{0.8} \frac{0.8}{0.8} \frac{0.8}{0.8})}$

Ⓢ1 Dicoat® Treated Thread Shape

Ⓢ 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) SLNNA	Carburized (Round) TSLNNA	Hard Chrome (Round) R-SNNA	Dicoat (Round) D-SNNA	6	-0.004 -0.012	8.0-12.0				6 3 3											
				8	-0.005 -0.014	10.0-16.0			5 8 10 12 15	*30		10 4 3.5									
				10	-0.005 -0.014	12.0-20.0			(5) (8) 10 12 15	60		12 4 4									
				10T	-0.006 -0.017	12.0-20.0			(5) (8) 10 12 15	90	1-10	15 5 5									
(Diamond) SLNND	(Diamond) TSLNND	(Diamond) R-SNND	(Diamond) D-SNND	12	-0.006 -0.017	14.0-25.0				(8) 10 12 15 18											
				16	-0.007 -0.020	18.0-32.0			(10) 12 15 18 20	120		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). Ⓢ L dimension in () is not applicable to Diamond Shape and Dicoat® treatment.

Set Screw

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
SLNTA	Round EN 1.7220	Hardening 35~40HRC	R-SNTA	Round EN 1.7220	35~40HRC	Hard Chrome
SLNTD	Diamond	Equiv.	R-SNTD	Diamond	Equiv.	Plating
TLNTA	Round EN 1.7242	Carburized 55HRC~ (depth 0.7~0.8) / Anti-carburizing on Threads	D-SNTA	Round EN 1.2379	55HRC~ (Surface 3000HV)	Dicoat® Treated
TLNTD	Diamond	Equiv.	D-SNTD	Diamond	Equiv.	

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

Ⓢ Dicoat® Treated items will have the () precision and Thread Shape will be Ⓢ1. $6.3 / \sqrt[3]{(1.5 \frac{G}{0.8} \frac{0.8}{0.8} \frac{0.8}{0.8})}$

Ⓢ1 Dicoat® Treated Thread Shape

Ⓢ 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	d	R	Applicable Set Screw	W	Unit Price							
														SLNTA	SLNTD	TLNTA	TLNTD	R-SNTA	R-SNTD	D-SNTA	D-SNTD
Hardened (Round) SLNTA	Carburized (Round) TLNTA	Hard Chrome (Round) R-SNTA	Dicoat (Round) D-SNTA	6	-0.004 -0.012	8.0-12.0				5 8 4 3	M5	3									
				8	-0.005 -0.014	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	-0.006 -0.017	12.0-20.0			5 8 7 5	M6	5										
(Diamond) SLNTD	(Diamond) TLNTD	(Diamond) R-SNTD	(Diamond) D-SNTD	12	-0.006 -0.017	14.0-25.0				12 10 9 6	M8	6									
				16	-0.007 -0.020	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).

Ordering Example

Part Number: SLNND A 6 - P8.0 - B14 - L8 - A30 - E2

Type Tip Shape D - P - B - L - A - E

SLNND A 6 - P8.0 - B14 - L8 - A30 - E2

SLNTA B 8 - P12.0 - B15 - A60

Alterations

Part Number: D-SNNA B 10 - P12.0 - B10 - L5 - A60 - KD

Type Tip Shape D - P - B - L - A - E - (KD, MC)

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. Ⓢ 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 Changes the flat position to 90° from the standard position 0°. Ⓢ Applicable to Diamond Shape Type only.	Ordering Code MC8 Changes the thread diameter. Ⓢ D/3:M-C 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 D6-10 -M:FC-MM3 D12, 16-M:FC-MM2.5 D20 -M:FC-MM2 Ⓢ Applicable to Threaded only. Ⓢ Not applicable to Dicoat® and TiCN treatment.