

Locating Pins for Fixtures

Precision Grade, No Shoulder

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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).

Threaded

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment	
LNNAN	Round	SCM435	R-NNAN	Round	35-40HRC	Hard Chrome	
LNNND	Diamond	SCM435	R-NNND	Diamond	(Surface 750HV ~)	Plating	
TLNNAN	Round	SCM415	D-NNAN	Round	SKD11	55HRC~	
TLNNND	Diamond	SCM415	D-NNND	Diamond	Equivalent	(Surface 3000HV)	Dicoat® Treated

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

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

1 Dicoat® Treated Thread Shape

$e = P/2 \tan 15^\circ + R - (R/\sin 15^\circ)$

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)	Carburized (Round)	Hard Chrome (Round)	Dicoat (Round)	Dicoat (Round)	6	8.0-12.0	5	8	10	6	3	3											
					8	10.0-16.0	5	8	10	12	15	10	4	3.5									
					10	12.0-20.0	(5) (8) (10) (12) (15)	12	4	4													
					10T	12.0-20.0	(5) (8) (10) (12) (15)	15	5	5													
(Diamond)	(Diamond)	(Diamond)	(Diamond)	(Diamond)	12	14.0-25.0	(8) (10) (12) (15) (18)	15	6	6													
					16	18.0-32.0	(10) (12) (15) (18) (20)	18	8	8													
					20	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	SCM435	R-NTAN	Round	35-40HRC	Hard Chrome	
LNTDN	Diamond	SCM435	R-NTDN	Diamond	(Surface 750HV ~)	Plating	
TLNTAN	Round	SCM415	D-NTAN	Round	SKD11	55HRC~	
TLNTDN	Diamond	SCM415	D-NTDN	Diamond	Equivalent	(Surface 3000HV)	Dicoat® Treated

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

Dicoat® Treated items will have the () precision.

$e = P/2 \tan 15^\circ + R - (R/\sin 15^\circ)$

Dicoat® Treated items do not come with a center hole.

Part Number	Type	Dg6	P 0.1mm Increment	B 1mm Increment	L	L1	d	R	Applicable Set Screw	W	Unit Price												
											LNTAN	LNTDN	TLNTAN	TLNTDN	R-NTAN	R-NTDN	D-NTAN	D-NTDN					
Hardened (Round)	Carburized (Round)	Hard Chrome (Round)	Dicoat (Round)	Dicoat (Round)	6	8.0-12.0	5	8	4	3	M5	3											
					8	10.0-16.0	5	8	5	4	M5	3.5											
					10	12.0-20.0	10	8	7	4	M6	4											
					10T	12.0-20.0	5	8	7	5	M6	5											
(Diamond)	(Diamond)	(Diamond)	(Diamond)	(Diamond)	12	14.0-25.0	12	10	9	6	M8	6											
					16	18.0-32.0	12	10	13	8	M8	8											
					20	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: Type D - P - B - L

LNNAN 6 - P8.0 - B14 - L10

LNTAN 8 - P12.0 - B12

Alterations

Part Number: 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 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/3M-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 06-10 : M-FC-MM3 012-16 : M-FC-MM2.5 020 : M-FC-MM2 Applicable to Threaded only. Not applicable to Dicoat® and TON treatment.

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	SCM435	R-SNNA	Round	35-40HRC	Hard Chrome	
SLNND	Diamond	SCM435	R-SNND	Diamond	(Surface 750HV ~)	Plating	
TSLNNA	Round	SCM415	D-SNNA	Round	SKD11	55HRC~	
TSLNND	Diamond	SCM415	D-SNND	Diamond	Equivalent	(Surface 3000HV)	Dicoat® Treated

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 $\phi 1$.

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)	Carburized (Round)	Hard Chrome (Round)	Dicoat (Round)	Dicoat (Round)	Dicoat (Round)	6	8.0-12.0	5	8	10	6	3	3											
						8	10.0-16.0	5	8	10	12	15	10	4	3.5									
						10	12.0-20.0	(5) (8) (10) (12) (15)	12	4	4													
						10T	12.0-20.0	(5) (8) (10) (12) (15)	15	5	5													
(Diamond)	(Diamond)	(Diamond)	(Diamond)	(Diamond)	(Diamond)	12	14.0-25.0	(8) (10) (12) (15) (18)	15	6	6													
						16	18.0-32.0	(10) (12) (15) (18) (20)	18	8	8													
						20	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

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment	
SLNTA	Round	SCM435	R-SNTA	Round	35-40HRC	Hard Chrome	
SLNTD	Diamond	SCM435	R-SNTD	Diamond	(Surface 750HV ~)	Plating	
TSLNTA	Round	SCM415	D-SNTA	Round	SKD11	55HRC~	
TSLNTD	Diamond	SCM415	D-SNTD	Diamond	Equivalent	(Surface 3000HV)	Dicoat® Treated

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 $\phi 1$.

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	TSLNTA	TSLNTD	R-SNTA	R-SNTD	D-SNTA	D-SNTD		
Hardened (Round)	Carburized (Round)	Hard Chrome (Round)	Dicoat (Round)	Dicoat (Round)	Dicoat (Round)	6	8.0-12.0	5	8	4	3	M5	3										
						8	10.0-16.0	5	8	5	4	M5	3.5										
						10	12.0-20.0	10	8	7	4	M6	4										
						10T	12.0-20.0	5	8	7	5	M6	5										
(Diamond)	(Diamond)	(Diamond)	(Diamond)	(Diamond)	(Diamond)	12	14.0-25.0	12	10	9	6	M8	6										
						16	18.0-32.0	12	10	13	8	M8	8										
						20	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.

Ordering Example

Part Number: Type Tip Shape D - P - B - L - A - E

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

SLNTA B 8 - P12.0 - B15 - L - A60

Alterations

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

R-SNND 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 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/3M-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 06-10 : M-FC-MM3 012-16 : M-FC-MM2.5 020 : M-FC-MM2 Applicable to Threaded only. Not applicable to Dicoat® and TON treatment.