


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

RoHS10

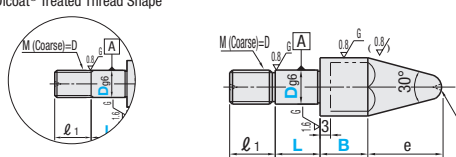
$e = P/2 \tan 15^\circ + R - (R/\sin 15^\circ)$

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

Type	Material	Hardness
LNNAN	Round	SCM435
LNNAN	Diamond	Hardening 35~40HRC
TLNNAN	Round	Carburized 55HRC~ (Depth 0.7~0.8) / Anti-carburizing on Threads
TLNNDN	Diamond	

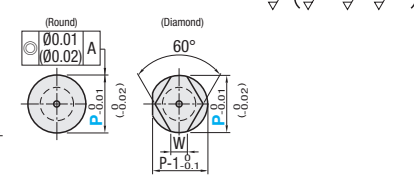
Reference: $\sin 15^\circ = 0.259$, $\tan 15^\circ = 0.267$

Ⓢ Dicoat® Treated Thread Shape




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

Ⓢ Dicoat® Treated items will have the () precision and Thread Shape will be $\sqrt{0.01}$ / $\sqrt{0.02}$ (Round) / $\sqrt{0.01}$ (Diamond)



Part Number	Type	Dg6	p 0.1mm Increment	B 1mm Increment	L Selection	ℓ ₁	R	W	Unit Price												
									LNNAN	LNNAN	TLNNAN	TLNNDN	R-NNAN	R-NNAN	D-NNAN	D-NNAN					
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	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) LNNAN	(Diamond) TLNNAN	(Diamond) R-NNAN	(Diamond) D-NNAN	12	-0.006 -0.017	14.0-25.0	(8) 10 12 15 18	15 6 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

RoHS10

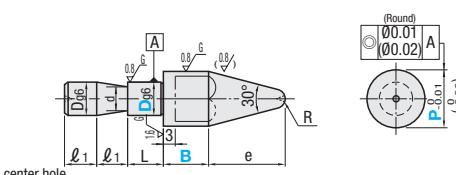
$e = P/2 \tan 15^\circ + R - (R/\sin 15^\circ)$

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

Type	Material	Hardness
LNTAN	Round	SCM435
LNTAN	Diamond	Hardening 35~40HRC
TLNTAN	Round	Carburized Treated Hardness: 55HRC~ (Depth 0.7~0.8) / Anti-carburizing on Threads
TLNTDN	Diamond	

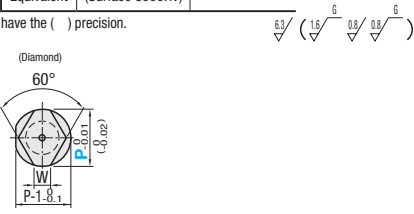
Reference: $\sin 15^\circ = 0.259$, $\tan 15^\circ = 0.267$

Ⓢ Dicoat® Treated items will have the () precision.



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

Ⓢ Dicoat® Treated items will have the () precision.



Part Number	Type	Dg6	p 0.1mm Increment	B 1mm Increment	L	ℓ ₁	d	R	Applicable Set Screw	W	Unit Price										
											LNTAN	LNTAN	TLNTAN	TLNTDN	R-NTAN	R-NTAN	D-NTAN	D-NTAN			
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) LNTAN	(Diamond) TLNTAN	(Diamond) R-NTAN	(Diamond) D-NTAN	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											

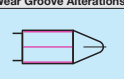
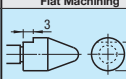
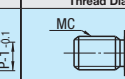
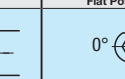

Ⓢ B Dimension is selectable from 5 mm ~ for Dicoat® Treated / Diamond Shape.

Ordering Example

Part Number	P	B	L
Type	D		
LNNAN	6	P8.0	B14
LNTAN	8	P12.0	B12

Alterations

Part Number	P	B	L	(KD, MC)
Type	D			
LNNAN	10	P12.0	B10	L5
				KD

	Wear Groove Alterations	Flat Machining	Thread Dia.	Flat Position	Thread Length
Alterations					
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 Machining on one side. Ⓢ Applicable to Round Shape Type only.	Ordering Code MC 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 06-10 -M-FC-M03 012 -M-FC-M05 020 -M-FC-M02 Ⓢ Applicable to Threaded only. Ⓢ Not applicable to Dicoat® and TCN treatment.