



Locating Pins for Fixtures

Precision Grade, Shouldered

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 **RoHS 10**

Material/Hardness Table:

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
LANAN	4137 Alloy	Hardened 35-40HRC	R-ANAN	4137 Alloy Steel	35-40HRC (Surface 750HV ~)	Hard Chrome Plating
LANDN	Steel		R-ANDN	D2 Tool Steel	55HRC ~ (Surface 3000HV)	Dicoat® Treated
TLANAN	SCM415 Alloy	Carburized 55HRC- (depth 0.7 ~ 0.8) / Anti-carburizing on Threads	D-ANAN	D2 Tool Steel	55HRC ~ (Surface 3000HV)	TICN Treatment
TLANDN	Steel (JIS)		H-ANAN	D2 Tool Steel	55HRC ~ (Surface 3000HV)	

Dimensions & Tolerances:

- Reference: $\sin 15^\circ = 0.259$, $\tan 15^\circ = 0.267$
- Dicoat® Treated / TICN Thread Shape will be $\odot 1$.

Part Number Selection:

Part Number	Type	D _{g6}	P	B	L	Selection	l ₁	H	R	W	Unit Price
LANAN	Hardened (Round)	6	3.0-7.0		5	8 10	6	9	1	1-2	
LANDN	Carburized (Round)	8	3.0-9.0		5	8 10 12 15	10	11	1.5	1-2	
TLANAN	Hard Chrome (Round)	10	4.5-12.0	⊙2-30	(5) (8) (10) (12) (15)		12	13	2	1-3	
TLANDN	Dicoat (Diamond)	10T	4.5-12.0	(B<P×4)	(5) (8) (10) (12) (15)		18	13	2	1-3	
R-ANAN	TICN (Round)	12	9.0-13.0		(8) (10) (12) (15) (18)		15	15	3	4	
R-ANDN	Dicoat (Diamond)	12	13.0-16.0		(10) (12) (15) (18) (20)		18	19	4	5	

⊙ W Dimension D₆, D₈; W=2 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, Dicoat® and TICN treatment.
⊙ B Dimension 5 mm ~ will be selected for Dicoat® Treated / TICN Treated items.

Set Screw **RoHS 10**

Material/Hardness Table:

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
LATAN	4137 Alloy	Hardened 35-40HRC	D-ATAN	D2 Tool Steel	55HRC ~ (Surface 3000HV)	Dicoat® Treated
LATDN	Steel		D-ATDN	D2 Tool Steel	55HRC ~ (Surface 3000HV)	TICN Treatment
TLATAN	SCM415 Alloy	Carburized Treated Hardness: 55HRC- (Depth: 0.7 ~ 0.8) / Anti-carburizing on Threads	R-ATAN	4137 Alloy Steel	35-40HRC (Surface 750HV ~)	Hard Chrome Plating
TLATDN	Steel (JIS)		H-ATAN	D2 Tool Steel	55HRC ~ (Surface 3000HV)	

Dimensions & Tolerances:

- Reference: $\sin 15^\circ = 0.259$, $\tan 15^\circ = 0.267$
- Dicoat® Treated/TICN items will have the () precision and Thread Shape will be $\odot 1$.

Part Number Selection:

Part Number	Type	D _{g6}	P	B	L	Selection	l ₁	H	d	R	W	Unit Price
LATAN	Hardened (Round)	6	3.0-7.0		8	8 9	4	1	M5	1-2		
LATDN	Carburized (Round)	8	3.0-9.0		8	8 11	5	1.5	M5	1-2		
TLATAN	Hard Chrome (Round)	10	4.5-12.0	⊙2-30	10	8 13	7	2	M6	1-3		
TLATDN	Dicoat (Diamond)	10T	4.5-12.0	(B<P×4)	5	8 13	7	2	M6	1-3		
R-ATAN	TICN (Round)	12	9.0-13.0		12	10 15	9	3	M8	4		
R-ATDN	Dicoat (Diamond)	12	13.0-16.0		12	10 19	13	4	M8	5		

⊙ W Dimension D₆, D₈; W=2 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
⊙ B Dimension 5 mm ~ will be selected for Dicoat® Treated / TICN Treated items.

Ordering Example: **Type** - **D** - **P** - **B** - **L**
LANAN 8 - P5.0 - B15 - L10
LATAN 6 - P6.8 - B14

Price [Configure Online](#)

Days to Ship [Configure Online](#)

Alterations: **Part Number** - **P** - **B** - **L** - (KC, KD, SC, MC)
Type **D**
LANAN 10 - P4.5 - B10 - L5 - KD

Alterations	Grooves for Wear Sign		Flat Position		Flat Machining		Wrench Flats		Thread Dia.		Thread Length		Upper Relief Radius Change	
	Code	Alterations	Code	Alterations	Code	Alterations	Code	Alterations	Code	Alterations	Code	Alterations	Code	Alterations
MK		Machine 4 grooves on B Dimension. The wear and tear of the grooves indicate the degree of wears.	KC		KD		SC		MC		FC		RTC	



Locating Pins for Fixtures

Tip Shape Selectable, Precision Grade, Shouldered

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 **RoHS 10**

Material/Hardness Table:

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
SLANA	4137 Alloy	Hardened 35-40HRC	R-SANA	4137 Alloy Steel	35-40HRC (Surface 750HV ~)	Hard Chrome Plating
SLAND	Steel		R-SAND	D2 Tool Steel	55HRC ~ (Surface 3000HV)	Dicoat® Treated
TSLANA	SCM415 Alloy	Carburized 55HRC- (depth 0.7 ~ 0.8) / Anti-carburizing on Threads	D-SANA	D2 Tool Steel	55HRC ~ (Surface 3000HV)	Dicoat® Treated
TSLAND	Steel (JIS)		D-SAND	D2 Tool Steel	55HRC ~ (Surface 3000HV)	

Dimensions & Tolerances:

- 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 $\odot 1$.

Tip Shape Selectable:

Shape	Center hole remains	Center hole remains
Shape A	$P-2 \tan(A/2) \geq 0.73$	$P-2 \tan(A/2) \geq 2$ (Dicoat®)
Shape B	$e = P/2 \tan(A/2) + R - R/\sin(A/2)$	$e = P/2 \tan(A/2) + R - R/\sin(A/2)$

⊙ W Dimension D₆, D₈; W=2 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 and Dicoat® treatment.
⊙ Angle A*30 is not applicable to Tip Shape B. Select from Precision Grade, Shouldered (P1693).

Set Screw **RoHS 10**

Material/Hardness Table:

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
SLATA	4137 Alloy	Hardened 35-40HRC	R-SATA	4137 Alloy Steel	35-40HRC (Surface 750HV ~)	Hard Chrome Plating
SLATD	Steel		R-SATD	D2 Tool Steel	55HRC ~ (Surface 3000HV)	Dicoat® Treated
TSLATA	SCM415 Alloy	Carburized 55HRC- (depth 0.7 ~ 0.8) / Anti-carburizing on Threads	D-SATA	D2 Tool Steel	55HRC ~ (Surface 3000HV)	Dicoat® Treated
TSLATD	Steel (JIS)		D-SATD	D2 Tool Steel	55HRC ~ (Surface 3000HV)	

Dimensions & Tolerances:

- 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 $\odot 1$.

Tip Shape Selectable:

Shape	Center hole remains	Center hole remains
Shape A	$P-2 \tan(A/2) \geq 0.73$	$P-2 \tan(A/2) \geq 2$ (Dicoat®)
Shape B	$e = P/2 \tan(A/2) + R - R/\sin(A/2)$	$e = P/2 \tan(A/2) + R - R/\sin(A/2)$

⊙ W Dimension D₆, D₈; W=2 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
⊙ B Dimension 5 mm ~ will be selected for Dicoat® Treated / TICN Treated items.

Ordering Example: **Part Number** - **P** - **B** - **L** - **A** - **E**
SLANA A 6 - P6.8 - B14 - L8 - A30 - E2
SLATA B 8 - P7.5 - B15 - A60

Price [Configure Online](#)

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Alterations: **Part Number** - **P** - **B** - **L** - **A** - **E** - (KC, KD, SC, MC)
Type **D**
R-SANA B 10 - P4.5 - B10 - L5 - A60 - KD

Alterations	Grooves for Wear Sign		Flat Position		Flat Machining		Wrench Flats		Thread Dia.		Thread Length		Upper Relief Radius Change	
	Code	Alterations	Code	Alterations	Code	Alterations	Code	Alterations	Code	Alterations	Code	Alterations	Code	Alterations
MK		Machine 4 grooves on B Dimension. The wear and tear of the grooves indicate the degree of wears.	KC		KD		SC		MC		FC		RTC	