



Locating Pins for Fixtures

Standard Grade, Shouldered



Locating Pins for Fixtures

Tip Shape Selectable, Standard Grade, Shouldered



Features: For Standard Grade, P Dim. Tolerance is ± 0.05 (for Precision Grade, ± 0.01 or ± 0.02), concentricity is 0.03 or 0.05 (for Precision Grade, 0.01 or 0.02). Polishing Relief Groove is smaller than the conventional products to avoid a workpiece getting stuck.

Threaded **RoHS10**

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment	Surface Finish Relief
ELANA	Round Alloy Steel	Hardened 35~40HRC	R-LANA	Round 4137 Alloy Steel	35~40HRC (Surface 750HV ~)	Hard Chrome Plating	
ELAND	Diamond	Alloy Steel	R-LAND	Diamond	4137 Alloy Steel	Hard Chrome Plating	
TELANA	Round SCM415 Alloy Steel	Carburized 55HRC - (Depth: 0.7 ~ 0.8) Anti-carburizing on Threads	D-LANA	Round D2 Tool Steel	55HRC ~ (Surface 3000HV)	Dicoat® Treated	
TELAND	Diamond	Steel (JIS)	H-LANA	Round D2 Tool Steel	55HRC ~ (Surface 3000HV)	TiCN Treatment	
			H-LAND	Diamond	Equivalent		

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

① Dicoat® Treated / TiCN Thread Shape

② Dicoat® Treated / TiCN items will have the () precision and Thread Shape will be ①.

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

③ Dicoat® Treated / TiCN Treated items do not come with a center hole.

Part Number	Type	Dh7	P Configurable 0.1mm Increment	B Configurable from Increment	L Selection	L1	H	R	W	Unit Price																	
										ELANA	ELAND	TELANA	TELAND	R-LANA	R-LAND	D-LANA	D-LAND	H-LANA	H-LAND								
Hardened (Round)	Carburized (Round)	Hard Chrome (Round)	Dicoat (Round)	TiCN (Round)	6	0.012	3.0-7.0	5	8	10	6	9	1	1-2													
					8	0	3.0-9.0	5	8	10	12	15	10	11	1.5	1-2											
					10	0	4.5-12.0	(5)	(8)	(10)	(12)	(15)	12	13	2	1-3											
					10T	-0.015	4.5-12.0	(5)	(8)	(10)	(12)	(15)	18	13	2	1-3											
(Diamond)	(Diamond)	(Diamond)	(Diamond)	(Diamond)	6	0	9.0-13.0	(8)	(10)	12	15	18	15	3	4												
					12	0	9.0-13.0	(8)	(10)	12	15	18	15	3	4												
					16	-0.018	13.0-16.0	(10)	(12)	(15)	(18)	(20)	18	19	4	5											

④ 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 ⑤ L dimension in () is not applicable to Diamond Shape, Dicoat® and TiCN treatment.

⑥ B Dimension 5 mm ~ will be selected for Dicoat® Treated / TiCN Treated items.

Set Screw **RoHS10**

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment	Surface Finish Relief
ELATA	Round Alloy Steel	Hardened 35~40HRC	R-LATA	Round 4137 Alloy Steel	35~40HRC (Surface 750HV ~)	Hard Chrome Plating	
ELATD	Diamond	Alloy Steel	R-LATD	Diamond	4137 Alloy Steel	Hard Chrome Plating	
TELATA	Round SCM415 Alloy Steel	Carburized 55HRC - (Depth: 0.7 ~ 0.8) Anti-carburizing on Threads	D-LATA	Round D2 Tool Steel	55HRC ~ (Surface 3000HV)	Dicoat® Treated	
TELATD	Diamond	Steel (JIS)	H-LATA	Round D2 Tool Steel	55HRC ~ (Surface 3000HV)	TiCN Treatment	
			H-LATD	Diamond	Equivalent		

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

① Dicoat® Treated / TiCN Treated items will have the () precision.

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

② Dicoat® Treated / TiCN Treated items do not come with a center hole.

Part Number	Type	Dh7	P Configurable 0.1mm Increment	B Configurable from Increment	L	L1	H	d	R	W	Unit Price															
											ELATA	ELATD	TELATA	TELATD	R-LATA	R-LATD	D-LATA	D-LATD	H-LATA	H-LATD						
Hardened (Round)	Carburized (Round)	Hard Chrome (Round)	Dicoat (Round)	TiCN (Round)	6	0.012	3.0-7.0	8	8	9	4	1	M5	1-2												
					8	0	3.0-9.0	8	8	11	5	1.5	M5	1-2												
					10	0	4.5-12.0	(5)	(8)	(11)	(7)	(2)	M6	1-3												
					10T	-0.015	4.5-12.0	(5)	(8)	(11)	(7)	(2)	M6	1-3												
(Diamond)	(Diamond)	(Diamond)	(Diamond)	(Diamond)	6	0	9.0-13.0	12	10	15	9	3	M8	4												
					12	0	9.0-13.0	12	10	15	9	3	M8	4												
					16	-0.018	13.0-16.0	12	10	19	13	4	M8	5												

④ 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 ⑤ B Dimension 5 mm ~ will be selected for Dicoat® Treated / TiCN Treated items.

Ordering Example: Part Number **ELANA** - **P6.0** - **B15** - **L10**

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Alterations: Part Number **ELANA** - **P6.8** - **B14** - **L5** - **SC**

Alterations	Grooves for Wear Sign	Flat Position	Flat Machining	Wrench Flats	Thread Dia.	Thread Length	Upper Relief Radius Change
Code	MK	KC	KD	SC	MC	FC	RTC
Machine 4 grooves on B Dimension. The wear and tear of the grooves indicate the degree of wear. Applicable to Hardened, Carburized and Round Shape Products only. When used together with RTC, the groove starts from the area of R value +1 mm. Groove Depth: 0.2mm (±0.05mm) Groove Shape: V Groove (90°)	Ordering Code KC Changes the flat position to 90° from the standard position 0°. Applicable to Diamond Shape Type only.	Ordering Code KD Machining on one side. Applicable to Round Shape Type only.	Ordering Code SC Adds wrench flats. Applicable to Round Shape Type only.	Ordering Code MC8 Changes the thread diameter. Applicable to Threaded only.	Ordering Code FC15 Changes the thread length. FC=1mm Increment. D6-10: M:FC-Mx2.5 D20: M:FC-Mx2. Applicable to Threaded only. Not applicable to Dicoat® and TiCN treatment.	Ordering Code RTC1 Changes the relief to the following radius R. Selection R1 R2 R3. Applicable when B=5.	Ordering Code RTC1 Changes the relief to the following radius R. Selection R1 R2 R3. Applicable when B=5.

Features: For Standard Grade, P Dim. Tolerance is ± 0.05 (for Precision Grade, ± 0.01 or ± 0.02), concentricity is 0.03 or 0.05 (for Precision Grade, 0.01 or 0.02). Tip shape is selectable. Polishing Relief Groove is smaller than the conventional products to avoid a workpiece getting stuck.

Threaded **RoHS10**

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment	Surface Finish Relief
SELANA	Round Alloy Steel	Hardened 35~40HRC	R-SLANA	Round 4137 Alloy Steel	35~40HRC (Surface 750HV ~)	Hard Chrome Plating	
SELAND	Diamond	Alloy Steel	R-SLAND	Diamond	4137 Alloy Steel	Hard Chrome Plating	
TSELANA	Round SCM415 Alloy Steel	Carburized 55HRC - (Depth: 0.7 ~ 0.8) Anti-carburizing on Threads	D-SLANA	Round D2 Tool Steel	55HRC ~ (Surface 3000HV)	Dicoat® Treated	
TSELAND	Diamond	Steel (JIS)	H-SLANA	Round D2 Tool Steel	55HRC ~ (Surface 3000HV)	TiCN Treatment	
			H-SLAND	Diamond	Equivalent		

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

① Dicoat® Treated Thread Shape

② Dicoat® Treated / TiCN Treated items do not come with a center hole.

Tip Shape Selectable

③ The center hole remains. P-2Elan(A/2)+0.73 P-2Elan(A/2)+2 (Dicoat®)

④ The center hole remains. e=P/2tan(A/2)+R-(R/sin(A/2))

Part Number	Type	Tip Shape	Dh7	P Configurable 0.1mm Increment	B Configurable from Increment	L Selection	L1	H	R	W	Unit Price															
											SELANA	SELAND	TSELANA	TSELAND	R-SLANA	R-SLAND	D-SLANA	D-SLAND								
Hardened (Round)	Carburized (Round)	Hard Chrome (Round)	Dicoat (Round)	TiCN (Round)	6	0.012	3.0-7.0	5	8	10	6	9	1	1-2												
					8	0	3.0-9.0	5	8	10	12	15	10	11	1.5	1-2										
					10	0	4.5-12.0	(5)	(8)	(10)	(12)	(15)	12	13	2	1-3										
					10T	-0.015	4.5-12.0	(5)	(8)	(10)	(12)	(15)	18	13	2	1-3										
(Diamond)	(Diamond)	(Diamond)	(Diamond)	(Diamond)	6	0	9.0-13.0	(8)	(10)	12	15	18	15	3	4											
					12	0	9.0-13.0	(8)	(10)	12	15	18	15	3	4											
					16	-0.018	13.0-16.0	(10)	(12)	(15)	(18)	(20)	18	19	4	5										

④ 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 ⑤ L dimension in () is not applicable to Diamond Shape and Dicoat® treatment.

⑥ Angle A*30 is not applicable to Tip Shape B. Select from Standard Grade, Shouldered (P.1689). ⑦ B Dimension 5 mm ~ will be selected for Dicoat® Treated / TiCN Treated items.

Set Screw **RoHS10**

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment	Surface Finish Relief
SELATA	Round Alloy Steel	Hardened 35~40HRC	R-SLATA	Round 4137 Alloy Steel	35~40HRC (Surface 750HV ~)	Hard Chrome Plating	
SELATD	Diamond	Alloy Steel	R-SLATD	Diamond	4137 Alloy Steel	Hard Chrome Plating	
TSELATA	Round SCM415 Alloy Steel	Carburized 55HRC - (Depth: 0.7 ~ 0.8) Anti-carburizing on Threads	D-SLATA	Round D2 Tool Steel	55HRC ~ (Surface 3000HV)	Dicoat® Treated	
TSELATD	Diamond	Steel (JIS)	H-SLATA	Round D2 Tool Steel	55HRC ~ (Surface 3000HV)	TiCN Treatment	
			H-SLATD	Diamond	Equivalent		

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

① Dicoat® Treated / TiCN Treated items will have the () precision.

Tip Shape Selectable

③ The center hole remains. P-2Elan(A/2)+0.73 P-2Elan(A/2)+2 (Dicoat®, TiCN)

④ The center hole remains. e=P/2tan(A/2)+R-(R/sin(A/2))

Part Number	Type	Tip Shape	Dh7	P Configurable 0.1mm Increment	B Configurable from Increment	L Selection	L1	H	d	R	W	Unit Price														
												SELATA	SELATD	TSELATA	TSELATD	R-SLATA	R-SLATD	D-SLATA	D-SLATD	H-SLATA	H-SLATD					
Hardened (Round)	Carburized (Round)	Hard Chrome (Round)	Dicoat (Round)	TiCN (Round)	6	0.012	3.0-7.0	8	8	9	4	1	M5	1-2												
					8	0	3.0-9.0	8	8	11	5	1.5	M5	1-2												
					10	0	4.5-12.0	(5)	(8)	(11)	(7)	(2)	M6	1-3												
					10T	-0.015	4.5-12.0	(5)	(8)	(11)	(7)	(2)	M6	1-3												
(Diamond)	(Diamond)	(Diamond)	(Diamond)	(Diamond)	6	0	9.0-13.0	12	10	15	9	3	M8	4												
					12	0	9.0-13.0	12	10	15	9	3	M8	4												
					16	-0.018	13.0-16.0	12	10	19	13	4	M8	5												

④ 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 ⑤ Angle A*30 is not applicable to Tip Shape B. Select from Standard Grade, Shouldered (P.1689). ⑦ B Dimension 5 mm ~ will be selected for Dicoat® Treated / TiCN Treated items.

Ordering Example: Part Number **SELANA** - **P14.2** - **B21** - **L15** - **A60** - **E2**

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Alterations: Part Number **SELATA** - **P6.8** - **B14** - **L5** - **A60** - **E2** - **SC**

Alterations	Grooves for Wear Sign	Flat Position	Flat Machining	Wrench Flats	Thread Dia.	Thread Length	Upper Relief Radius Change
Code	MK	KC	KD	SC	MC	FC	RTC
Machine 4 grooves on B Dimension. The wear and tear of the grooves indicate the degree of wear. Applicable to Hardened, Carburized and Round Shape Products only. Groove Depth: 0.2mm (±0.05mm) Groove Shape: V Groove (90°)	Ordering Code KC Changes the flat position to 90° from the standard position 0°. Applicable to Diamond Shape Type only.	Ordering Code KD Machining on one side. Applicable to Round Shape Type only.	Ordering Code SC Adds wrench flats. Applicable to Round Shape Type only.	Ordering Code MC8 Changes the thread diameter. Applicable to Threaded only.	Ordering Code FC15 Changes the thread length. FC=1mm Increment. D6-10: M:FC-Mx3 D12, 16: M:FC-Mx2.5 D20: M:FC-Mx2. Applicable to Threaded only. Not applicable to Dicoat® and TiCN treatment.	Ordering Code RTC1 Changes the relief to the following radius R. Selection R1 R2 R3. Applicable when B=5.	Ordering Code RTC1 Changes the relief to the following radius R. Selection R1 R2 R3. Applicable when B=5.