



Locating Pins for Fixtures - Standard Grade, Short Set Screw

Circumference Groove



Locating Pins for Fixtures - Standard Grade, Short Set Screw

Tip Shape Selectable, Circumference Groove / Notched



Features: Can be used for thin locators due to the short retaining part. For Standard Grade, P Dim. For Standard Grade, P Dim. Tolerance is ± 0.05 and concentricity is 0.03 or 0.05. Polishing Relief Groove is smaller than the conventional products to avoid a workpiece getting stuck.

Shouldered

Type	Circumference Groove	Shape	Material	Hardness	Surface Treatment
ELASA	Round	4137 Alloy Steel	Treated Hardness 35-40HRC		
ELASD	Diamond	4137 Alloy Steel	Treated Hardness 35-40HRC		
TELASA	Round	SQM415 Alloy Steel (JS)	Carburized Treated Hardness: 55HRC - (Depth: 0.7 - 0.8) / Anti-carburizing on Threads		
TELASD	Diamond	SQM415 Alloy Steel (JS)	Carburized Treated Hardness: 55HRC - (Depth: 0.7 - 0.8) / Anti-carburizing on Threads		

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

Surface Finish Relief: $R0.2$

Tip Shape Selectable: Shape A, Shape B

Notch Shape: 10°

Circumference Groove Shape: $6.3 / (3.2 / 1.5 / 1.6 / 6)$

D	d1	d	Applicable Set Screw
6	4	4	M4
8	6	5	M5
10	7	7	M5
12	9	9	M6
16	8	13	M6

Part Number	Type	Dh7	P 0.1mm Increment	B 1mm Increment	L 1mm Increment	H	R	W	Unit Price											
									ELASA	ELASD	TELASA	TELASD	D-LASA	D-LASD	R-LASA	R-LASD				
6	Hardened (Round)	6	3.0-7.0	2-30	5-10	9	1	1-2												
8	Carburized (Round)	8	3.0-9.0			11	1.5	1-2												
10	Hard Chrome (Round)	10	4.5-12.0			13	2	1-3												
12	Dicoat® (Round)	12	9.0-13.0			15	3	4												
16	Dicoat® (Diamond)	16	13.0-16.0			19	4	5												

W Dimension: D6, D8: W=2 when P<5.0, D10: W=1 when P<5.0, W=2 when 5.0<P<7.0, W=3 when P>7.0

B dimension of Dicoat treated products are to be specified from 5mm~

No Shoulder

Type	Circumference Groove	Shape	Material	Hardness	Surface Treatment
ELNSA	Round	4137 Alloy Steel	Treated Hardness 35-40HRC		
ELNSD	Diamond	4137 Alloy Steel	Treated Hardness 35-40HRC		
TELNSA	Round	SQM415 Alloy Steel (JS)	Carburized Treated Hardness: 55HRC - (Depth: 0.7 - 0.8) / Anti-carburizing on Threads		
TELNSD	Diamond	SQM415 Alloy Steel (JS)	Carburized Treated Hardness: 55HRC - (Depth: 0.7 - 0.8) / Anti-carburizing on Threads		

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

Surface Finish Relief: $R0.2$

Tip Shape Selectable: Shape A, Shape B

Notch Shape: 10°

Circumference Groove Shape: $6.3 / (3.2 / 1.5 / 1.6 / 6)$

D	d1	d	Applicable Set Screw
6	4	4	M4
8	6	5	M5
10	7	7	M5
12	9	9	M6
16	8	13	M6
20	17	17	M6

Part Number	Type	Dh7	P 0.1mm Increment	B 1mm Increment	L 1mm Increment	R	W	Unit Price												
								ELNSA	ELNSD	TELNSA	TELNSD	R-NSA	R-NSD	D-NSA	D-NSD					
6	Hardened (Round)	6	8.0-12.0	2-30	5-10	3	3													
8	Carburized (Round)	8	10.0-16.0			4	3.5													
10	Hard Chrome (Round)	10	12.0-20.0			4	4													
12	Dicoat® (Round)	12	14.0-25.0			6	6													
16	Dicoat® (Diamond)	16	18.0-32.0			8	8													
20	Dicoat® (Diamond)	20	22.0-35.0			8	9													

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

Ordering Example: Part Number: ELASA 6 - P5.0 - B10 - L5

Price: [Configure Online](#)

Days to Ship: [Configure Online](#)

Alterations: Part Number: ELASA10 - P10.0 - B15 - L10 - (KC, KD, SC, RTC) KD

Alterations	Grooves for Wear Sign	Flat Position	Flat Machining	Wrench Flats	Upper Relief Radius Change	Tip Angle Change
Code	MK	KC	KD	SC	RTC	RC
	Machine 4 grooves on B Dimension. The wear and tear of the grooves indicate the degree of wear. *Applicable to Flat Position, 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°)	Enter Code KC Changes the flat position to 90° from the standard position 0°. *Applicable to Diamond Shape Type only.	Enter Code KD Machining on one side. *Applicable to Round Shape Type.	Enter Code SC Adds wrench flats. Selection: R1 R2 R3 *Applicable to Round Shape with Shoulder Type only.	Enter Code RTC Changes the relief to the following radius R. Selection: R1 R2 R3 *Applicable to Shouldered only. *RTC:(H-P)/2 *B:5	Enter Code RC Changes the relief to the tip angle. Selection: 60°, 90°, 120°

Features: Can be used for thin locators due to the short retaining part. For Standard Grade, P Dim. For Standard Grade, P Dim. Tolerance is ± 0.05 and concentricity is 0.03 or 0.05. Polishing Relief Groove is smaller than the conventional products to avoid a workpiece getting stuck.

Shouldered

Type	Circumference Groove	Notched	Shape	Material	Hardness	Surface Treatment
ELACA	Round	4137 Alloy Steel	Treated Hardness 35-40HRC			
ELACD	Diamond	4137 Alloy Steel	Treated Hardness 35-40HRC			
TELACA	Round	SQM415 Alloy Steel (JS)	Carburized Treated Hardness: 55HRC - (Depth: 0.7 - 0.8) / Anti-carburizing on Threads			
TELACD	Diamond	SQM415 Alloy Steel (JS)	Carburized Treated Hardness: 55HRC - (Depth: 0.7 - 0.8) / Anti-carburizing on Threads			

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

Surface Finish Relief: $R0.2$

Tip Shape Selectable: Shape A, Shape B

Notch Shape: 10°

Circumference Groove Shape: $6.3 / (3.2 / 1.5 / 1.6 / 6)$

D	d1	d	Applicable Set Screw
6	4	4	M4
8	6	5	M5
10	7	7	M5
12	9	9	M6
16	8	13	M6

Part Number	Type	Dh7	P 0.1mm Increment	B 1mm Increment	L 1mm Increment	A Selection	E (Shape A) 1mm Increment	H	R	W	Unit Price									
											ELACA	ELACD	TELACA	TELACD	ELACA	ELACD	TELACA	TELACD		
6	Hardened (Round)	6	3.0-7.0	2-30	5-10	10	12	16	3	3										
8	Carburized (Round)	8	3.0-9.0			12	16	19	4	3.5										
10	Hard Chrome (Round)	10	4.5-12.0			12	16	19	4	4										
12	Dicoat® (Round)	12	9.0-13.0			12	16	19	6	6										
16	Dicoat® (Diamond)	16	13.0-16.0			19	20	25	8	8										

W Dimension: D6, D8: W=2 when P<5.0, D10: W=1 when P<5.0, W=2 when 5.0<P<7.0, W=3 when P>7.0

Angle A*30 is not applicable to Tip Shape B of Circumference Groove. Select from Circumference Groove Type (P1699).

Conventional RC alteration (change of angle) can be substituted with Tip Shape B.

No Shoulder

Type	Circumference Groove	Notched	Shape	Material	Hardness	Surface Treatment
ELNSA	Round	4137 Alloy Steel	Treated Hardness 35-40HRC			
ELNSD	Diamond	4137 Alloy Steel	Treated Hardness 35-40HRC			
TELNSA	Round	SQM415 Alloy Steel (JS)	Carburized Treated Hardness: 55HRC - (Depth: 0.7 - 0.8) / Anti-carburizing on Threads			
TELNSD	Diamond	SQM415 Alloy Steel (JS)	Carburized Treated Hardness: 55HRC - (Depth: 0.7 - 0.8) / Anti-carburizing on Threads			

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

Surface Finish Relief: $R0.2$

Tip Shape Selectable: Shape A, Shape B

Notch Shape: 10°

Circumference Groove Shape: $6.3 / (3.2 / 1.5 / 1.6 / 6)$

D	d1	d	Applicable Set Screw
6	4	4	M4
8	6	5	M5
10	7	7	M5
12	9	9	M6
16	8	13	M6
20	17	17	M6

Part Number	Type	Dh7	P 0.1mm Increment	B 1mm Increment	L 1mm Increment	A Selection	E (Shape A) 1mm Increment	H	R	W	Unit Price									
											ELNSA	ELNSD	TELNSA	TELNSD	ELNSA	ELNSD	TELNSA	TELNSD		
6	Hardened (Round)	6	8.0-12.0	2-30	5-10	10	12	16	3	3										
8	Carburized (Round)	8	10.0-16.0			12	16	19	4	3.5										
10	Hard Chrome (Round)	10	12.0-20.0			12	16	19	4	4										
12	Dicoat® (Round)	12	14.0-25.0			12	16	19	6	6										
16	Dicoat® (Diamond)	16	18.0-32.0			19	20	25	8	8										
20	Dicoat® (Diamond)	20	22.0-35.0			19	20	25	8	9										

Angle A*30 is not applicable to Tip Shape B of Circumference Groove. Select from Circumference Groove Type (P1699).

B Dimension is selectable from 5mm ~ for Diamond Shape.

Conventional RC alteration (change of angle) can be substituted with Tip Shape B.

Ordering Example: Part Number: ELNSA 6 - P5.0 - B10 - L5 - A60 - E5

Days to Ship: [Configure Online](#)

Price: [Configure Online](#)

Alterations	Grooves for Wear Sign	Flat Position	Flat Machining	Wrench Flats	Upper Relief Radius Change
Code	MK	KC	KD	SC	RTC
	Machine 4 grooves on B Dimension. The wear and tear of the grooves indicate the degree of wear. *Applicable to Flat Position, 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°)	Enter Code KC Changes the flat position to 90° from the standard position 0°. *Applicable to Diamond Shape Type only.	Enter Code KD Machining on one side. *Applicable to Round Shape Type.	Enter Code SC Adds wrench flats. Selection: R1 R2 R3 *Applicable to Round Shape with Shoulder Type only.	Enter Code RTC Changes the relief to the following radius R. Selection: R1 R2 R3 *Applicable to Shouldered only. *RTC:(H-P)/2 *B:5