

Locating Pin for Jig & Fixtures

Standard with Shoulder & Pilot Shape Selectable

Features: For Standard Grade, P dimension 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.

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
SELANA	Round	4137 Alloy Steel	D-SLANA	Round	D2 Tool Steel	55 HRC min.
SELAND	Diamond	4137 Alloy Steel	D-SLAND	Diamond	Equivalent	(Surface 3000 HV min.)
TSELANA	Round	SCM415 Alloy Steel (JIS)	R-SLANA	Round	4137 Alloy Steel	35-40 HRC min.
TSELAND	Diamond	SCM415 Alloy Steel (JIS)	R-SLAND	Diamond	Equivalent	(Surface 750 HV min.)

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

Part Number	Type	Tip Shape	D _{h7}	P 0.1 mm Increment	B 1 mm Increment	L Selection	A Selection	E (Shape A) 1 mm Increment	L ₁	H	R	W
SELANA	Hardened (Round)	A (Taper)	6	3.0-7.0	2-30 (B≤Px4)	5 8 10	*30	1-10	6	9	1	1
SELAND	Carburized (Round)	A (Taper)	8	3.0-9.0		5 8 10 12 15	60		10	11	1.5	1.5
TSELANA	Hard Chrome (Round)	B (Taper R)	10	4.5-12.0	2-30 (B≤Px4)	(5) (8) 10 12 15	90	1-10	12	13	2	1-3
TSELAND	Dicoat® (Round)	B (Taper R)	12	9.0-13.0		10 12 15 18	120		15	15	3	4
			16	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 and Dicoat® treatment.
 ⊙ Angle A *30 is not applicable to Tip Shape B. Select from Standard Grade, Shouldered P.1542 ⊙ B Dimension 5 mm - will be selected for Dicoat® Treated / TiCN Treated items.

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
SELATA	Round	4137 Alloy Steel	R-SLATA	Round	4137 Alloy Steel	35-40HRC
SELATD	Diamond	4137 Alloy Steel	D-SLATA	Diamond	Equivalent	(Surface 750 HV min.)
TSELATA	Round	SCM415 Alloy Steel	D-SLATD	Round	D2 Tool Steel	55 HRC min.
TSELATD	Diamond	SCM415 Alloy Steel	H-SLATD	Diamond	Equivalent	(Surface 3000 HV min.)

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

Part Number	Type	Tip Shape	D _{h7}	P 0.1 mm Increment	B 1 mm Increment	A Selection	E (Shape A) 1 mm Inc.	L	L ₁	H	d	R	Applicable Set Screw	W
SELATA	Hardened (Round)	A (Tapered)	6	3.0-7.0	2-30 (B≤Px4)	*30	1-10	8	8	9	4	1	M5	1
SELATD	Carburized (Round)	A (Tapered)	8	3.0-9.0		60		10	11	5	1.5	1.5		
TSELATA	Hard Chrome (Round)	B (Taper R)	10	4.5-12.0	2-30 (B≤Px4)	90	1-10	10	5	13	7	2	M6	1-3
TSELATD	Dicoat® (Round)	B (Taper R)	12	9.0-13.0		120		12	10	15	9	3		
			16	13.0-16.0				12	10	19	13	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. ⊗ Angle A *30 is not applicable to Tip Shape B. Select from Standard Grade, Shouldered P.1542
 ⊙ B Dimension 5 mm - will be selected for Dicoat® Treated / TiCN Treated items.

Part Number Example

Part Number: SELANA A 16 - P14.2 - B21 - L15 - A60 - E2

Part Number Alterations

Part Number: SELATA A 6 - P6.8 - B14 - A30 - E2 - SC

Alterations	Flat Position	Flat	Wrench Flats	Thread Diameter
Code	KC	KD	SC	MC
Spec.	Ordering Code: KC Changes the flat position to 90° from the standard position 0°. ⊙ Applicable to Diamond shape only.	Ordering Code: KD Machining on one side. ⊙ H-P≥2 ⊙ Applicable to Round Shape Only.	Ordering Code: SC Adds wrench flats. H 9 11 13 15 19 H 7 8 11 13 17	Ordering Code: MC8 Changes the thread diameter. ⊙ D/3≤M<D Mmin3 ⊙ Applicable to Threaded Type only.

Locating Pin for Jigs & Fixtures

Standard (h7)

Features: For Standard Grade, P dimension 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).

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
ELNNA	Round	4137 Alloy Steel	R-LNNA	Round	4137 Alloy Steel	35-40 HRC min.
ELNND	Diamond	4137 Alloy Steel or Equivalent	R-LNND	Diamond	Equivalent	(Surface 750 HV min.)
TELNNA	Round	SCM415 Alloy Steel (JIS)	D-LNNA	Round	D2 Tool Steel	55 HRC min.
TELNND	Diamond	SCM415 Alloy Steel (JIS)	D-LNND	Diamond	Equivalent	(Surface 3000 HV min.)

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

Part Number	Type	D _{h7}	P 0.1 mm Increment	B 1 mm Increment	L Selection	L ₁	R	W
ELNNA	Hardened (Round)	6	8.0-12.0	2-30	5 8 10	6	3	3
ELNND	Carburized (Round)	8	10.0-16.0		5 8 10 12 15	10	4	3.5
TELNNA	Hard Chrome (Round)	10	12.0-20.0	2-30	(8) 10 12 15 18	15	6	6
TELNND	Dicoat® (Round)	12	14.0-25.0		10 12 15 18 20	18	8	8
		16	18.0-32.0		12 15 18 20	22		9

⊗ L dimension in () is not applicable to Diamond Shape, Dicoat® and TiCN treatment. ⊙ B Dimension is selectable from 5 mm - for Dicoat® Treated / TiCN Treated Products/Diamond Shape.
 ⊙ D16, D20 not available for R-LNNA, R-LNND, D-LNNA, D-LNND, H-LNNA, H-LNND part types. ⊙ D6, D8 not available for H-LNNA, H-LNND part types.

Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
ELNTA	Round	4137 Alloy Steel	R-LNTA	Round	4137 Alloy Steel	35-40 HRC min.
ELNTD	Diamond	4137 Alloy Steel or Equivalent	R-LNTD	Diamond	Equivalent	(Surface 750 HV min.)
TELNTA	Round	SCM415 Alloy Steel	D-LNTA	Round	D2 Tool Steel	55 HRC min.
TELNTD	Diamond	SCM415 Alloy Steel	D-LNTD	Diamond	Equivalent	(Surface 3000 HV min.)

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

Part Number	Type	D _{h7}	P 0.1 mm Increment	B 1 mm Increment	L	L ₁	d	R	Applicable Set Screw	W
ELNTA	Hardened (Round)	6	8.0-12.0	5-30	5	8	4	3	M5	3
ELNTD	Carburized (Round)	8	10.0-16.0		10	8	5	4		M5
TELNTA	Hard Chrome (Round)	10	12.0-20.0	5-30	5	7	5		M6	4
TELNTD	Dicoat® (Round)	12	14.0-25.0		12	10	9	6		M6
		16	18.0-32.0			13			M8	8
		20	22.0-35.0			17	8			9

⊙ D16, D20 not available for R-LNTA, R-LNTD, D-LNTA, D-LNTD, H-LNTA, H-LNTD part types.
 ⊙ D6, D8 not available for H-LNTA, H-LNTD part types.

Part Number Example

Part Number: ELNNA 10 - P12.0 - B10 - L8 Threaded Set Screw

Part Number Alterations

Part Number: ELANA 6 - P8.0 - B14 - L5 - KD

Alterations	Grooves for Wear Sign	Flat Position	Flat Machining	Thread Diameter	Thread Length
Code	MK	KC	KD	MC	FC
Spec.	Machine 4 grooves on B Dimension. The wear and tear of the grooves indicate the degree of wears. ⊙ Applicable to Hardened, Carburized and Round Shape Products only. Groove Depth: 0.2mm (±0.05 mm) 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: MC8 Changes the thread diameter. ⊙ D/3≤M<D Mmin3 ⊙ Applicable to Threaded only.	Ordering Code: FC15 Changes the thread length. FC=1 mm Increment D6-10: M≤FC≤Mx3 D12, 16: M≤FC≤Mx2.5 D20: M≤FC≤Mx2 ⊙ Applicable to Threaded only ⊗ Not applicable to Dicoat® treatment and TiCN treatment.