

Locating Pins for Fixtures

Standard Grade, No Shoulder

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).

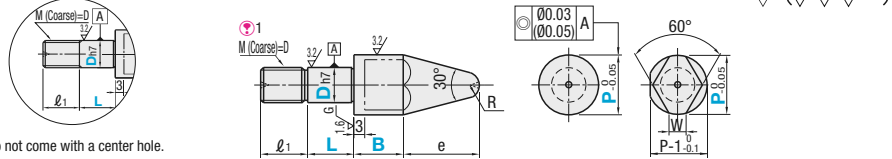
Threaded



Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
ELNNA	Round	EN 1.7220	R-LNNA	Round	EN 1.7220	35-40HRC
ELNND	Diamond	Equiv.	R-LNND	Diamond	Equiv.	Hard Chrome Plating
TELNNA	Round	EN 1.7242	D-LNNA	Round	EN 1.2379	55HRC ~ (Surface 3000HV)
TELND	Diamond	Equiv.	D-LNND	Diamond	Equiv.	Dicoat® Treated
			H-LNNA	Round	EN 1.2379	55HRC ~ (Surface 3000HV)
			H-LNND	Diamond	Equiv.	TiCN Treatment

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

Dicoat® Treated / TiCN Thread Shape



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

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

Part Number Type	Dh7	P Configurable 0.1mm Increment	B Configurable 1mm Increment	L Selection								Unit Price							
				5	8	10	12	15	18	20	22	ELNNA	ELNND	TELNNA	TELND	R-LNNA	R-LNND	D-LNNA	D-LNND
Hardened (Round)	6	-0.012	8.0-12.0																
Carburized (Round)	8	0	10.0-16.0																
Hard Chrome (Round)	10	-0.015	12.0-20.0																
Dicoat (Round)	10T		12.0-20.0																
(Diamond)	12	0	14.0-25.0																
(Diamond)	16	-0.018	18.0-32.0																
(Diamond)	20	-0.021	22.0-35.0																

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.

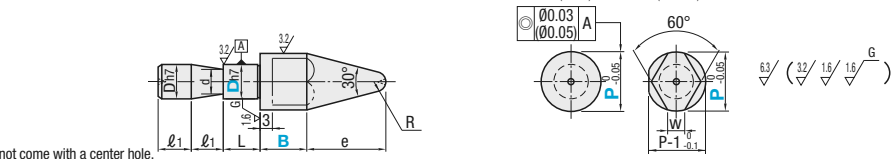
Set Screw



Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
ELNTA	Round	EN 1.7220	R-LNTA	Round	EN 1.7220	35-40HRC
ELNTD	Diamond	Equiv.	R-LNTD	Diamond	Equiv.	Hard Chrome Plating
TELNTA	Round	EN 1.7242	D-LNTA	Round	EN 1.2379	55HRC ~ (Surface 3000HV)
TELNTD	Diamond	Equiv.	D-LNTD	Diamond	Equiv.	Dicoat® Treated
			H-LNTA	Round	EN 1.2379	55HRC ~ (Surface 3000HV)
			H-LNTD	Diamond	Equiv.	TiCN Treatment

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

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

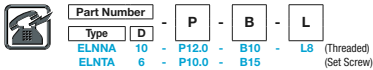


$e = P/2 \tan 15^\circ + R - (R/\sin 15^\circ)$

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

Part Number Type	Dh7	P Configurable 0.1mm Increment	B Configurable 1mm Increment	L	l1	d	R	Applicable Set Screw	W	Unit Price									
										ELNTA	ELNTD	TELNTA	TELNTD	R-LNTA	R-LNTD	D-LNTA	D-LNTD	H-LNTA	H-LNTD
Hardened (Round)	6	-0.012	8.0-12.0					M5	3										
Carburized (Round)	8	0	10.0-16.0					M5	3.5										
Hard Chrome (Round)	10	-0.015	12.0-20.0					M6	4										
Dicoat (Round)	10T		12.0-20.0					M6	5										
(Diamond)	12	0	14.0-25.0					M8	6										
(Diamond)	16	-0.018	18.0-32.0					M8	8										
(Diamond)	20	-0.021	22.0-35.0					M8	9										

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



Alterations	Wear Groove Alterations	Flat Position	Flat Machining	Thread Dia.	Thread Length
Code	MK	KC	KD	MC	FC
	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 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 MC8 Changes the thread diameter. Applicable to D3s:M-C D12, 16: M-FC:MK2.5 D20 : M-FC:MK2 Applicable to Threaded only. Not applicable to Dicoat® and TiCN treatment.	Ordering Code FC15 Changes the thread length. FC=1mm Increment D6-10 : M-FC:MK3 D12, 16: M-FC:MK2.5 D20 : M-FC:MK2 Applicable to Threaded only. Not applicable to Dicoat® and TiCN treatment.

Locating Pins for Fixtures

Tip Shape Selectable, Standard Grade, No Shoulder

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).

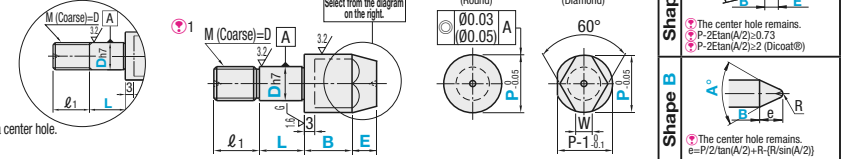
Threaded



Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
SELNNA	Round	EN 1.7220	D-SLNNA	Round	EN 1.2379	55HRC ~ (Surface 3000HV)
SELNND	Diamond	Equiv.	D-SLNND	Diamond	Equiv.	Dicoat® Treated
TSELNNA	Round	EN 1.7242				
TSELND	Diamond	Equiv.				

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

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



Only the Shape B Dicoat® Treated items do not come with a center hole.

Part Number Type	Tip Shape	Dh7	P Configurable 0.1mm Increment	B Configurable 1mm Increment	L Selection	A Selection	E 1mm Increment	L1	R	W	Unit Price										
											5	8	10	12	15	18	20	22	SELNNA	SELNND	TSELNNA
Hardened (Round)	A	6	-0.012	8.0-12.0							*30										
Carburized (Round)	8	0	10.0-16.0								60	1-10	6	3	3						
Dicoat (Round)	10	-0.015	12.0-20.0								90		12	4	4						
(Diamond)	12	0	14.0-25.0								120		15	5	5						
(Diamond)	16	-0.018	18.0-32.0										18	8	8						
(Diamond)	20	-0.021	22.0-35.0										22	8	9						

Angle A*30 is not applicable to Tip Shape B. Select from Standard Grade, No Shoulder (P.1691).

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

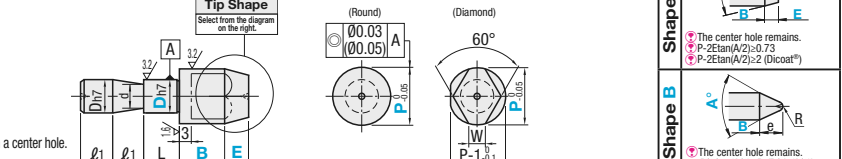
Set Screw



Type	Material	Hardness	Type	Material	Hardness	Surface Treatment
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SELNTD	Diamond	Equiv.	D-SLNTD	Diamond	Equiv.	Dicoat® Treated
TSELNTA	Round	EN 1.7242				
TSELNTD	Diamond	Equiv.				

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

Dicoat® Treated items will have the () precision.



Only the Shape B Dicoat® Treated items do not come with a center hole.

Part Number Type	Tip Shape	Dh7	P Configurable 0.1mm Increment	B Configurable 1mm Increment	A Selection	E 1mm Increment	L	l1	d	R	Applicable Set Screw	W	Unit Price					
													SELNTA	SELNTD	TSELNTA	TSELNTD	D-SLNTA	D-SLNTD
Hardened (Round)	A	6	-0.012	8.0-12.0							M5	3						
Carburized (Round)	8	0	10.0-16.0								M5	3.5						
Dicoat (Round)	10	-0.015	12.0-20.0								M6	4						
(Diamond)	12	0	14.0-25.0								M6	5						
(Diamond)	16	-0.018	18.0-32.0								M8	8						
(Diamond)	20	-0.021	22.0-35.0								M8	9						

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