


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



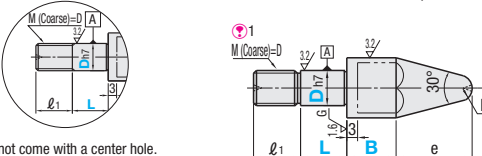
RoHS10

Ⓢ e=P/2tan15°+R-(R/sin15°)
 Ⓢ Dicoat® Treated / TiCN Treated items do not come with a center hole.

Type	Material	Hardness
ELNNA	Round	SCM435
ELNND	Diamond	Hardening 35~40HRC
TELNNA	Round	Carburized 55HRC~ (depth 0.7~0.8) / Anti-carburizing on Threads
TELNND	Diamond	

Reference: sin15°=0.259 tan15°=0.267

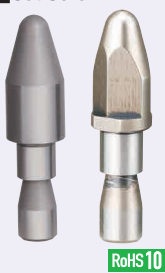
Ⓢ 1 Dicoat® Treated / TiCN Thread Shape



Part Number	Type	D _{h7}	P Configurable 0.1mm Increment	B Configurable 1mm Increment	L Selection	ℓ ₁	R	W	Unit Price											
									ELNNA	ELNND	TELNNA	TELNND	R-LNNA	R-LNND	D-LNNA	D-LNND	H-LNNA	H-LNND		
Hardened (Round)	Carburized (Round)	6	0	8.0-12.0	5 8 10	6	3	3												
		8	0	10.0-16.0	5 8 10 12 15	10	4	3.5												
		10	0	12.0-20.0	(5) (8) 10 12 15	12	4	4												
		10T	-0.015	12.0-20.0	(5) (8) 10 12 15	15	5	5												
		12	0	14.0-25.0	(8) 10 12 15 18	15	6	6												
Diamond (Diamond)	Diamond (Diamond)	16	-0.018	18.0-32.0	(10) 12 15 18 20	18	8	8												
		20	-0.021	22.0-35.0	12 15 18 20	22	8	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.

Set Screw



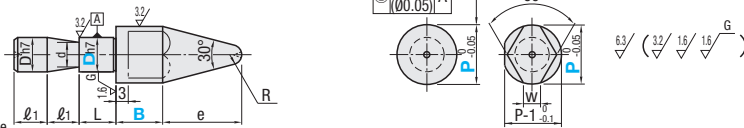
RoHS10

Ⓢ e=P/2tan15°+R-(R/sin15°)
 Ⓢ Dicoat® Treated / TiCN Treated items do not come with a center hole.

Type	Material	Hardness
ELNNTA	Round	SCM435
ELNNTD	Diamond	Hardening 35~40HRC
TELNNTA	Round	Carburized 55HRC~ (depth 0.7~0.8) / Anti-carburizing on Threads
TELNNTD	Diamond	

Reference: sin15°=0.259 tan15°=0.267

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



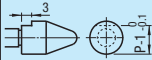





Part Number	Type	D _{h7}	P Configurable 0.1mm Increment	B Configurable 1mm Increment	L	ℓ ₁	d	R	Applicable Set Screw	W	Unit Price										
											ELNNTA	ELNNTD	TELNNTA	TELNNTD	R-LNNTA	R-LNNTD	D-LNNTA	D-LNNTD	H-LNNTA	H-LNNTD	
Hardened (Round)	Chrome (Round)	6	0	8.0-12.0	5 8 4 4 3	M5	3														
		8	0	10.0-16.0	5 8 5 4 4	M5	3.5														
		10	0	12.0-20.0	10 8 7 4	M6	4														
		10T	-0.015	12.0-20.0	5 8 7 5	M6	5														
		12	0	14.0-25.0	12 10 9 6	M8	6														
Diamond (Diamond)	Diamond (Diamond)	16	-0.018	18.0-32.0	12 10 13 8	M8	8														
		20	-0.021	22.0-35.0	12 10 17 8	M8	9														

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


Part Number = P - B - L
 Type D - P12.0 - B10 - L8 (Threaded)
 ELNNA 10 - P10.0 - B15 (Set Screw)


Alterations = P - B - L - (KC, KD --etc.)
 ELNNA 6 - P8.0 - B14 - L5 - KC

	Wear Groove Alterations	Flat Position	Flat Machining	Thread Dia.	Thread Length	Tip Angle Change
Alterations						
Code	MK	KC	KD	MC	FC	RC
Spec.	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 Ⓢ Applicable when B ≥ 4 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. Ⓢ D/3:M<D Mmin3 Ⓢ Applicable to Threaded only.	Ordering Code FC15 Changes the thread length. FC=1mm Increment D8-10 : M=FCxMk3 D12, 16 : M=FCxMk2.5 D20 : M=FCxMk2 Ⓢ Applicable to Threaded only. Ⓢ Not applicable to Dicoat® and TiCN treatment.	Ordering Code RC60 Changes the tip angle. Selection 60°, 90°, 120°