


Locating Pins for Fixtures - Standard Grade, Screw Mounted

For products uncovered by e-Catalog Standard, see P.131.

Features: Screw Mounted Pins. Polishing Relief Groove is smaller than the conventional products to avoid a workpiece from getting stuck.

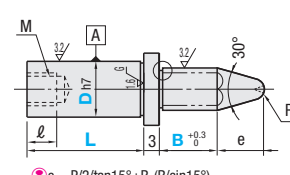
Shouldered



RoHS 10

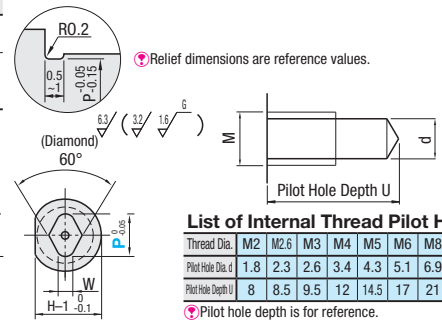
Type	Material	Hardness
Shouldered		
ELABA	Round	SCM435 Treated Hardness 35~40HRC
ELABD	Diamond	SCM435 Treated Hardness 35~40HRC
TELABA	Round	SCM415 Carburized Treated Hardness: 55HRC~ (Depth: 0.7~0.8) Anti-carburizing on Tapped Part
TELABD	Diamond	SCM415 Carburized Treated Hardness: 55HRC~ (Depth: 0.7~0.8) Anti-carburizing on Tapped Part

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



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

Surface Finish Relief



Relief dimensions are reference values.

List of Internal Thread Pilot Hole


Thread Dia.	M2	M2.6	M3	M4	M5	M6	M8	M10
Pilot Hole Dia. d	1.8	2.3	2.6	3.4	4.3	5.1	6.9	8.6
Pilot Hole Depth U	8	8.5	9.5	12	14.5	17	21	24

Pilot hole depth is for reference.

Part Number		P		B		L		ℓ	H	R	M (Coarse)	W	Unit Price			
Type	D _{h7}	0.1mm Increment	0.1mm Increment	1mm Increment	1mm Increment	1mm Increment	1mm Increment						ELABA	ELABD	TELABA	TELABD
Hardened (Round) ELABA TELABA	6	0 -0.012	3.0-8.0	2.0-35.0 (B≤Px4)	10-16	5	9	1	M3	1-2						
	8	0	3.0-10.0			6	11	1.5	M4	1-2						
	10	-0.015	4.5-12.0			8	13	2	M5	1-3						
	10T	0	4.5-12.0			8	13	2	M6	1-3						
	12	0	7.0-14.0			8	15	3	M5	4						
	16	-0.018	13.0-18.0			12	19	4	M8	5						
(Diamond) ELABD TELABD	12	0	7.0-14.0	8	15	3	M5	4								
	16	-0.018	13.0-18.0	12	19	4	M8	5								
	20	0	16.0-22.0	12	23	4	M8	5								
	20	-0.021	16.0-22.0	12	23	4	M8	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

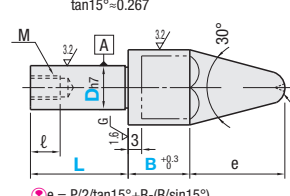
No Shoulder



RoHS 10

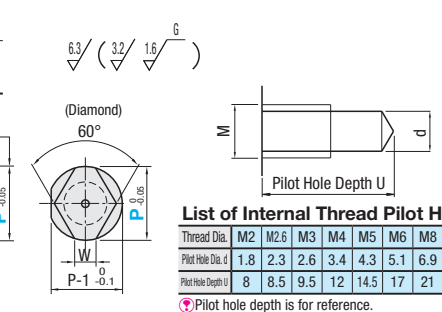
Type	Material	Hardness
No Shoulder		
ELNBA	Round	SCM435 Treated Hardness 35~40HRC
ELNBD	Diamond	SCM435 Treated Hardness 35~40HRC
TELNBA	Round	SCM415 Carburized Treated Hardness: 55HRC~ (Depth: 0.7~0.8) Anti-carburizing on Tapped Part
TELNBD	Diamond	SCM415 Carburized Treated Hardness: 55HRC~ (Depth: 0.7~0.8) Anti-carburizing on Tapped Part

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



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

Surface Finish Relief



Relief dimensions are reference values.

List of Internal Thread Pilot Hole

Thread Dia.	M2	M2.6	M3	M4	M5	M6	M8	M10
Pilot Hole Dia. d	1.8	2.3	2.6	3.4	4.3	5.1	6.9	8.6
Pilot Hole Depth U	8	8.5	9.5	12	14.5	17	21	24

Pilot hole depth is for reference.

Part Number		P		B		L		ℓ	R	M (Coarse)	W	Unit Price			
Type	D _{h7}	0.1mm Increment	0.1mm Increment	1mm Increment	1mm Increment	1mm Increment	1mm Increment					ELNBA	ELNBD	TELNBA	TELNBD
Hardened (Round) ELNBA TELNBA	6	0 -0.012	8.0-12.0	2.0-35.0 (B≤Px4)	9-16	5	3	M3	3						
	8	0	10.0-16.0			6	4	M4	3.5						
	10	-0.015	12.0-20.0			8	4	M5	4						
	10T	0	12.0-20.0			8	5	M6	4						
	12	0	14.0-25.0			8	6	M5	6						
	16	-0.018	18.0-32.0			12	8	M8	8						
(Diamond) ELNBD TELNBD	12	0	14.0-25.0	8	6	M5	6								
	16	-0.018	18.0-32.0	12	8	M8	8								
	20	0	22.0-35.0	12	8	M8	9								
	20	-0.021	22.0-35.0	12	8	M8	9								

For the Diamond Shape, the value of 5mm~ can be configured for the B dimension.

Ordering Part Number - P - B - L

Example ELABA 8 - P6.8 - B14.0 - L10
ELNBA 10 - P14.0 - B25.0 - L15

Alterations Part Number - P - B - L - (KC, KD... etc.)

ELABA10 - P7.0 - B14.0 - L12 - KD

Alterations	Wear Groove Alterations	Flat Position	Flat Machining	Wrench Flats	Upper Relief Radius Change	Tip Angle Change	Example
	MK	KC	KD	SC	RTC	RC	
Spec.	Drill 4 grooves at D Dim. Abrasion manage. can be facilitated by checking the wear of the grooves. Applicable to Hardening, Carburized and Round Shape prods. only Applicable when B ≥ 4 When combined with RTC, Groove starts from "R" value + 1 mm" areas. 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. KD cannot be combined with SC.	Ordering Code SC Adds wrench flats. H 9 11 13 15 19 23 H 7 8 11 13 17 21 Applicable to Round Shape Type with Shoulder only.	Ordering Code RTC Changes the relief to the following radius R. R1 R2 R3 Applicable to Shouldered Type only. RTC-(H-P)/2 B:5	Ordering Code RC60 Changes the tip angle. 60°, 90°, 120°	Workpiece Threaded Type Screw Mounted Type