


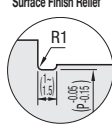
Locating Pins for Fixtures

Standard Grade, Shouldered

Feature: 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).

Threaded RoHS

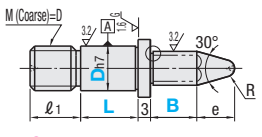


Type	Material	Hardness	Surface Finish Relief
ELANA	4137 Alloy	Hardened 35-40HRC	
ELAND	Steel		
TELANA	SCM415 Alloy	Carburized Treated Hardness: 55HRC-(Depth 0.7-0.8)	
TELAND	Steel (JIS)	Anti-carburizing on Threads	

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

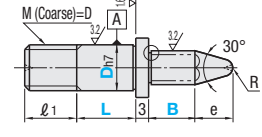
Type	Material	Hardness	Surface Treatment
D-LANA	Round	55HRC-(Surface 3000HV)	Dicoat® Treated
D-LAND	Diamond		
R-LANA	Round	4137 Alloy Steel	Hard Chrome Plating
R-LAND	Diamond		
H-LANA	Round	55HRC-(Surface 3000HV)	TiCN Treatment
H-LAND	Diamond		

Hardened, Carburized, Hard Chrome Plated

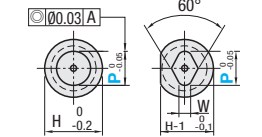


$e = P/2 \tan 15^\circ + R - (R/\sin 15^\circ)$

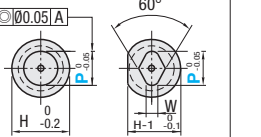
Dicoat®, TiCN Treatment



No Surface Treatment




With Surface Treatment

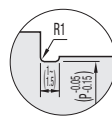


Part Number	Type	Dh7	P 0.1mm Increment	B 1mm Increment	L	L1	H	R	W	Unit Price													
										ELANA	ELAND	TELANA	TELAND	D-LANA	D-LAND	R-LANA	R-LAND	H-LANA	H-LAND				
D-LANA ELANA D-LAND ELAND R-LANA TELANA R-LAND TELAND H-LANA H-LAND	6	0	3.0-7.0	5-30 (B≤Px4)	5 8 10	6	9	1	(2)														
	8	0	3.0-9.0		5 8 10 12 15	10	11	1.5															
	10	0	4.5-12.0		(5) (8) 10 12 15	12	13	2		1-3													
	10T	0	9.0-13.0		(8) 10 12 15 18	15	15	3		4													
	12	0	13.0-16.0		(10) 12 15 18 20	18	19	4		5													
	16	0																					

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, Dicoat® and TiCN treatment.

Set Screw RoHS

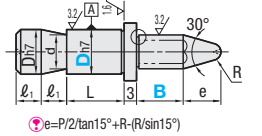


Type	Material	Hardness	Surface Finish Relief
ELATA	4137 Alloy	Hardened 35-40HRC	
ELATD	Steel		
TELATA	SCM415 Alloy	Carburized Treated Hardness: 55HRC-(Depth 0.7-0.8)	
TELATD	Steel (JIS)	Anti-carburizing on Threads	

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

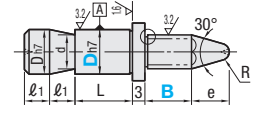
Type	Material	Hardness	Surface Treatment
D-LATA	Round	55HRC-(Surface 3000HV)	Dicoat® Treated
D-LATD	Diamond		
R-LATA	Round	4137 Alloy Steel	Hard Chrome Plating
R-LATD	Diamond		
H-LATA	Round	55HRC-(Surface 3000HV)	TiCN Treatment
H-LATD	Diamond		

Hardened, Carburized, Hard Chrome Plated

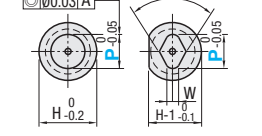


$e = P/2 \tan 15^\circ + R - (R/\sin 15^\circ)$

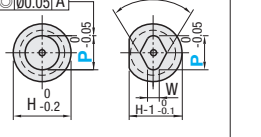
Dicoat®, TiCN Treatment



No Surface Treatment



With Surface Treatment



Part Number	Type	Dh7	P 0.1mm Increment	B 1mm Increment	L	L1	H	d	R	Applicable Set Screw	W	Unit Price														
												ELATA	ELATD	TELATA	TELATD	D-LATA	D-LATD	R-LATA	R-LATD	H-LATA	H-LATD					
D-LATA ELATA D-LATD ELATD R-LATA TELATA R-LATD TELATD H-LATA H-LATD	6	0	3.0-7.0	5-30 (B≤Px4)	8	9	4	1	M5	1	(2)															
	8	0	3.0-9.0		8	11	5	1.5																		
	10	0	4.5-12.0		10	13	7	2				M6	1-3													
	10T	0	9.0-13.0		5	15	9	3				M8	4													
	12	0	13.0-16.0		12	19	13	4				M8	5													
	16	0																								

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, No Shoulder. (P1419)

Ordering Example


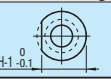
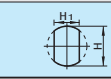
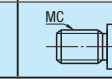
Part Number: ELANA 8 - P6.0 - B15 - L10

Alterations

Part Number: ELANA 8 - P6.8 - B14 - L5 - SC

Alterations

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


Alterations	Flat Position	Flat Machining	Wrench Flats	Thread Dia.
				
Code	KC	KD	SC	MC
Spec.	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. H-P≥2 Applicable to Round Shape Type only.	Ordering Code SC Adds wrench flats. H 9 11 13 15 19 H1 7 8 11 13 17 Applicable to Round Shape Type only.	Ordering Code MC8 Changes the thread diameter. D/3-M-D Mmin3 Applicable to Threaded Type only.
Price Adder				

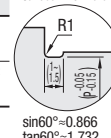
Locating Pins for Fixtures

Tip Shape Selectable, Standard Grade, Shouldered

Feature: 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.

Threaded RoHS

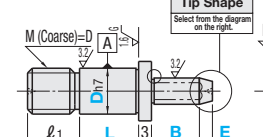


Type	Material	Hardness	Surface Finish Relief
SELANA	4137 Alloy	Hardened 35-40HRC	
SELAND	Steel		
TSELANA	SCM415 Alloy	Carburized Treated Hardness: 55HRC-(Depth 0.7-0.8)	
TSELAND	Steel (JIS)	Anti-carburizing on Threads	

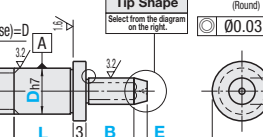
Reference: $\sin 15^\circ = 0.259$
 $\tan 15^\circ = 0.267$
 $\sin 30^\circ = 0.5$
 $\tan 30^\circ = 0.577$
 $\sin 45^\circ = 0.707$
 $\tan 45^\circ = 1$
 $\sin 60^\circ = 0.866$
 $\tan 60^\circ = 1.732$

Type	Material	Hardness	Surface Treatment
D-SLANA	Round	55HRC-(Surface 3000HV)	Dicoat® Treated
D-SLAND	Diamond		
R-SLANA	Round	4137 Alloy Steel	Hard Chrome Plating

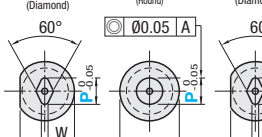
Hardened, Carburized, Hard Chrome Plated



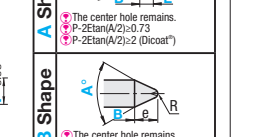
Dicoat®, TiCN Treatment



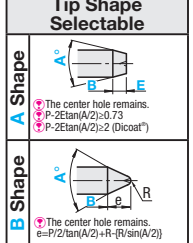
No Surface Treatment



With Surface Treatment



Tip Shape Selectable



A Shape: The center hole remains. P-2Etan(A/2)≥0.73 P-2Etan(A/2)≥2 (Dicoat®)


B Shape: The center hole remains. e=P/2tan(A/2)+R-(R/sin(A/2))

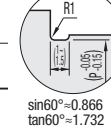
Part Number	Type	Tip Shape	Dh7	P 0.1mm Increment	B 1mm Increment	L	A E Shape A 1mm Increment	L1	H	R	W	Unit Price											
												SELANA	SELAND	TSELANA	TSELAND	D-SLANA	D-SLAND	R-SLANA					
SELANA SELAND TSELANA TSELAND	D-SLANA D-SLAND R-SLANA	A (Tapered)	6	0	3.0-7.0	5 8 10	*30	6	9	1	1												
			8	0	3.0-9.0	5 8 10 12 15	60	10	11	1.5	(2)												
			10	0	4.5-12.0	(5) (8) 10 12 15	90	12	13	2	1-3												
			10T	0	9.0-13.0	(8) 10 12 15 18	120	15	15	3	4												
			12	0	13.0-16.0	(10) 12 15 18 20	120	18	19	4	5												
			16	0																			

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, No Shoulder. (P1419)

Set Screw RoHS

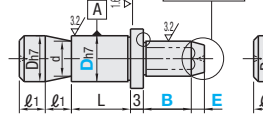


Type	Material	Hardness	Surface Finish Relief
SELATA	4137 Alloy	Hardened 35-40HRC	
SELATD	Steel		
TSELATA	SCM415 Alloy	Carburized Treated Hardness: 55HRC-(Depth 0.7-0.8)	
TSELATD	Steel (JIS)	Anti-carburizing on Threads	

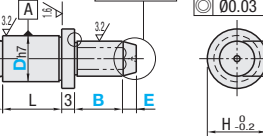
Reference: $\sin 15^\circ = 0.259$
 $\tan 15^\circ = 0.267$
 $\sin 30^\circ = 0.5$
 $\tan 30^\circ = 0.577$
 $\sin 45^\circ = 0.707$
 $\tan 45^\circ = 1$
 $\sin 60^\circ = 0.866$
 $\tan 60^\circ = 1.732$

Type	Material	Hardness	Surface Treatment
D-SLATA	Round	55HRC-(Surface 3000HV)	Dicoat® Treated
D-SLATD	Diamond		
H-SLATA	Round	55HRC-(Surface 3000HV)	TiCN Treatment

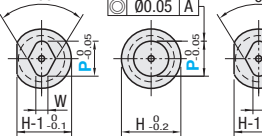
Hardened, Carburized



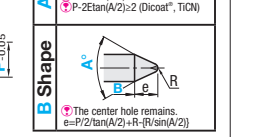
Dicoat®, TiCN Treatment



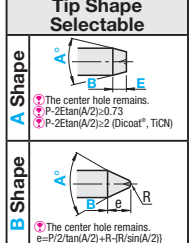
No Surface Treatment



With Surface Treatment



Tip Shape Selectable



A Shape: The center hole remains. P-2Etan(A/2)≥0.73 P-2Etan(A/2)≥2 (Dicoat®, TiCN)

B Shape: The center hole remains. e=P/2tan(A/2)+R-(R/sin(A/2))

Part Number	Type	Tip Shape	Dh7	P 0.1mm Increment	B 1mm Increment	L	A E Shape A 1mm Increment	L1	H	d	R	Applicable Set Screw	W	Unit Price											
														SELATA	SELATD	TSELATA	TSELATD	D-SLATA	D-SLATD	H-SLATA					
SELATA SELATD TSELATA TSELATD	D-SLATA D-SLATD H-SLATA	A (Tapered)	6	0	3.0-7.0	8	*30	8	9	4	1	M5	1												
			8	0	3.0-9.0	8	60	10	11	1.5	M5			(2)											
			10	0	4.5-12.0	5	90	12	13	2	M6			1-3											
			10T	0	9.0-13.0	10	120	15	15	3	M8			4											
			12	0	13.0-16.0	12	120	19	19	4	M8			5											
			16	0																					

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, No Shoulder. (P1419)

Ordering Example

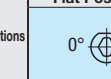
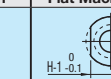
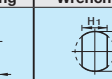
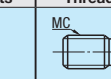
Part Number: SELATA A 6 - P6.8 - B14 - A30 - E2 - SC

Alterations

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

Alterations

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

Alterations	Flat Position	Flat Machining	Wrench Flats	Thread Dia.
				
Code	KC	KD	SC	MC
Spec.	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. H-P≥2 Applicable to Round Shape Type only.	Ordering Code SC Adds wrench flats. H 9 11 13 15 19 H1 7 8 11 13 17 Applicable to Round Shape Type only.	Ordering Code MC8 Changes the thread diameter. D/3-M-D Mmin3 Applicable to Threaded Type only.
Price Adder				