

# Locating Pins for Jigs & Fixtures –Nut Fixing with Shoulder–

These Inlay Pins have a male thread on the shank side and can be secured on the opposite side of a mounting plate. The "D" dimension helps to precisely locate the pin. The shank undercut allows the pin to be fully inserted into the mounting fixture. Use diamond pins with slight dimensional misalignment (P.326).

Material	Hardness	Type	
		Round	Diamond
4137 Steel	35 ~ 40HRC	U-ELANA	U-ELAND

Material Characteristics P.628

General Tolerance: Unless otherwise specified use the table below.

From	To	Tolerance
0.000	5.000	±0.01
5.001	16.000	±0.02
16.001	60.000	±0.05

Thread or hole location tolerance: ±0.005 non-cumulative.

Surface Roughness: Unless otherwise specified.

Type	Part No.			P Choose in 0.001" Increments	B Choose in 0.01" Increments	L Selection						L1	H	R	T (Thread)	(W)
	Callout	Nominal	Tolerance			7/32	5/16	3/8	1/2	5/8	3/4					
U-ELANA U-ELAND	0.25	1/4	0.2498 0.2494	0.125 ~ 0.250	0.19~1.13 B<PX4	0.22	0.31					0.25	0.375	0.050	1/4-20	0.040*
	0.31	5/16	0.3123 0.3119	0.125 ~ 0.375		0.22	0.50	0.63				0.38	0.438	0.060	5/16-18	0.040*
	0.38	3/8	0.3748 0.3744	0.188 ~ 0.438		0.38	0.50	0.63				0.50	0.500	0.090	3/8-16	0.080*
	0.50	1/2	0.4998 0.4994	0.375 ~ 0.500		0.50	0.63	0.75				0.63	0.625	0.125	1/2-13	0.156
	0.63	5/8	0.6248 0.6244	0.500 ~ 0.625		0.63	0.75	0.81				0.75	0.750	0.156	5/8-11	0.188

Order Example: The part number consists only of the fields with blue characters.

Part No. — P — B — L

Type D

U-ELANA 0.25 — P 0.200 — B 0.28 — L 0.31

\*In D=0.25 & 0.31, when P>0.197, W=0.080. In D=0.38, when P>0.276, W=0.125.

Days to Ship: 8 Days

Price

Quantity Discount Rate

Quantity	1-4	5-19	20-49	50-
Rate	—	5%	10%	15%

For larger quantity orders "Days to Ship" may differ from published catalog term. P.29

D	\$ Unit Price (Qty. 1-4)	
	U-ELANA	U-ELAND
0.25	5.40	7.80
0.31	7.20	10.30
0.38	9.90	14.20
0.50	12.60	18.00
0.63	15.30	21.90

Optional Modifications: Part No. — P — B — L — (Ordering Code) (RTC, SC, TC...etc)

U-ELANA 0.25 — P 0.200 — B 0.28 — L 0.31 — SC

Optional Modifications	Wrench Flats	Tip Angle	Shoulder Top Radius	Thread Diameter																																																																			
Ordering Code	SC	RC	RTC	TC																																																																			
Details	Adds wrench flats. <table border="1"> <thead> <tr> <th>H</th> <th>H1</th> </tr> </thead> <tbody> <tr> <td>0.375</td> <td>0.313</td> </tr> <tr> <td>0.438</td> <td>0.375</td> </tr> <tr> <td>0.500</td> <td>0.438</td> </tr> <tr> <td>0.625</td> <td>0.563</td> </tr> <tr> <td>0.750</td> <td>0.688</td> </tr> </tbody> </table> Example SC Available for U-ELANA only.	H	H1	0.375	0.313	0.438	0.375	0.500	0.438	0.625	0.563	0.750	0.688	Changes tip angle. Selection 60°, 90°, 120° Example RC60 In the case of 90° and 120° the tip has a centerdrilled hole.	Changes specified radius into the following specified section R radius. Selection R0.008, R0.060, R0.125 Example RTC0.060	Changes thread diameter. <table border="1"> <thead> <tr> <th rowspan="2">D</th> <th colspan="7">Thread Selection (Callout)</th> </tr> <tr> <th>#5-40</th> <th>#8-32</th> <th>#10-32</th> <th>1/4-20</th> <th>5/16-18</th> <th>3/8-16</th> <th>1/2-13</th> </tr> </thead> <tbody> <tr> <td>0.25</td> <td>5</td> <td>8</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>0.31</td> <td>5</td> <td>8</td> <td>10</td> <td>0.25</td> <td></td> <td></td> <td></td> </tr> <tr> <td>0.38</td> <td>8</td> <td>10</td> <td>0.25</td> <td>0.31</td> <td></td> <td></td> <td></td> </tr> <tr> <td>0.50</td> <td></td> <td></td> <td>0.25</td> <td>0.31</td> <td>0.38</td> <td></td> <td></td> </tr> <tr> <td>0.63</td> <td></td> <td></td> <td>0.25</td> <td>0.31</td> <td>0.38</td> <td>0.50</td> <td></td> </tr> </tbody> </table> Thread Dia. 0.125 0.164 0.190 0.250 0.313 0.375 0.500 Example TC0.50	D	Thread Selection (Callout)							#5-40	#8-32	#10-32	1/4-20	5/16-18	3/8-16	1/2-13	0.25	5	8	10					0.31	5	8	10	0.25				0.38	8	10	0.25	0.31				0.50			0.25	0.31	0.38			0.63			0.25	0.31	0.38	0.50	
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When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".

Related Components

- Bushings for Locating Pins P.363
- Bushings for Locating Pins P.364
- Bushings for Locating Pins P.367
- Bushings for Locating Pins P.368

# Locating Pins for Jigs & Fixtures –Set Screw Fixing with Shoulder–

Similar to the pins from previous page, but with an ability to lock the pin in the fixture with a set screw. The angled undercut is provided for side fastening with a regular set screw. The recommended set screw size for each pin diameter can be found in the table. The undercut prevents shank damage and the centerline of the set screw should be located  $\pm 1 \times 1.5$  from the back of the shank. Use diamond pins with slight dimensional misalignment (P.326).

Material	Hardness	Type	
		Round	Diamond
4137 Steel	35 ~ 40HRC	U-ELATA	U-ELATD

Material Characteristics P.628

General Tolerance: Unless otherwise specified use the table below.

From	To	Tolerance
0.000	5.000	±0.01
5.001	16.000	±0.02
16.001	60.000	±0.05

Thread or hole location tolerance: ±0.005 non-cumulative.

Surface Roughness: Unless otherwise specified.

Type	Part No.			P Choose in 0.001" Increments	B Choose in 0.01" Increments	L	L1	H	d	R	Compatible Set Screw	(W)
	Callout	Nominal	Tolerance									
U-ELATA U-ELATD	0.25	1/4	0.2498 0.2494	0.125 ~ 0.250	0.19~1.13 B<PX4	0.31	0.313	0.375	0.156	0.050	#10-32	0.040*
	0.31	5/16	0.3123 0.3119	0.125 ~ 0.375		0.31	0.313	0.438	0.219	0.060	#10-32	0.040*
	0.38	3/8	0.3748 0.3744	0.188 ~ 0.438		0.38	0.313	0.500	0.281	0.090	1/4-20	0.080*
	0.50	1/2	0.4998 0.4994	0.375 ~ 0.500		0.50	0.375	0.625	0.406	0.125	5/16-18	0.156
	0.63	5/8	0.6248 0.6244	0.500 ~ 0.625		0.50	0.375	0.750	0.531	0.156	5/16-18	0.188

Order Example: The part number consists only of the fields with blue characters.

Part No. — P — B

Type D

U-ELATD 0.50 — P 0.438 — B 0.63

\*In D=0.25 & 0.31, when P>0.197, W=0.080. In D=0.38, when P>0.276, W=0.125.

Days to Ship: 8 Days

Price

Quantity Discount Rate

Quantity	1-4	5-19	20-49	50-
Rate	—	5%	10%	15%

For larger quantity orders "Days to Ship" may differ from published catalog term. P.29

D	\$ Unit Price (Qty. 1-4)	
	U-ELATA	U-ELATD
0.25	5.40	7.80
0.31	7.20	10.30
0.38	9.90	14.20
0.50	12.60	18.00
0.63	15.30	21.90

Optional Modifications: Part No. — P — B — (Ordering Code) (RTC, SC, RC)

U-ELATD 0.50 — P 0.438 — B 0.63 — RTC 0.060

Example

U-ELANA U-ELAND

When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".

Express Options P.30

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