


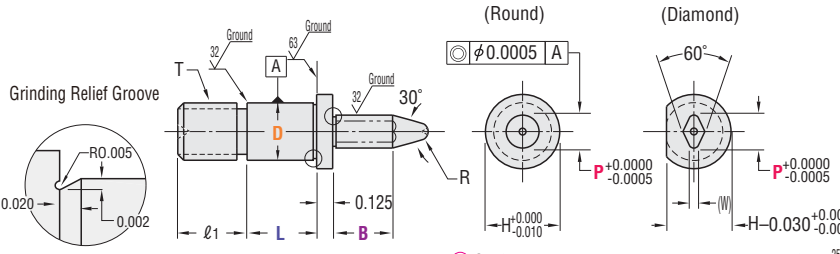
Locating Pins for Jigs & Fixtures –Precision– –Nut Fixing with Shoulder–

These Precision 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 head undercut allows the pin to be fully inserted into the pallet or fixture. Use diamond pins with slight dimensional misalignment (P.326).



Material	Hardness	Type	
		Round	Diamond
4137 Steel	35 ~ 40HRC	U-LANAN	U-LANDN

Material Characteristics P.628



Grinding Relief Groove

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 0.0005" 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	13/16					
U-LANAN U-LANDN	0.25	1/4	0.2498 0.2494	0.1250 ~ 0.2500	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	0.1250 ~ 0.3750		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	0.1875 ~ 0.4375		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	0.3750 ~ 0.5000		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	0.5000 ~ 0.6250		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-LANAN 0.25 — P 0.2000 — B 0.28 — L 0.31

*In D=0.25 & 0.31, when P>0.1970, W=0.080. In D=0.38, when P>0.2760, W=0.125.

Days to Ship 8 Days

Price

Quantity Discount Rate

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

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

D	\$ Unit Price (Qty. 1-4)	
	U-LANAN	U-LANDN
0.25	9.00	14.90
0.31	10.80	16.80
0.38	14.40	20.80
0.50	16.20	22.80
0.63	18.90	24.80

Optional Modifications

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

Type D

U-LANAN 0.25 — P 0.2000 — B 0.28 — L 0.31 — RC 60

Optional Modifications	Wrench Flats	Tip Angle	Shoulder Top Radius	Thread Diameter
		H1	RC	RTC

Ordering Code	SC	RC	RTC	TC
		Adds wrench flats.	Changes tip angle. Selection 60°, 90°, 120° Example RC60	Changes specified radius into the following specified section R radius.


Details	SC	RC	RTC	TC																										
		<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> <p>Example SC</p> <p>Available for U-LANAN only.</p>	H	H1	0.375	0.313	0.438	0.375	0.500	0.438	0.625	0.563	0.750	0.688	<p>In the case of 90° and 120° the tip has a centerdrilled hole.</p>	<p>Selection R0.008, R0.030 R0.060, R0.125</p> <p>Example RTC0.060</p>	<table border="1"> <thead> <tr> <th colspan="2">Thread Selection (Callout)</th> </tr> <tr> <th>D</th> <th>#5-40 #8-32 #10-32 1/4-20 5/16-18 3/8-16 1/2-13</th> </tr> </thead> <tbody> <tr> <td>0.25</td> <td>5 8 10</td> </tr> <tr> <td>0.31</td> <td>5 8 10 25</td> </tr> <tr> <td>0.38</td> <td>8 10 25 31</td> </tr> <tr> <td>0.50</td> <td>10 25 31 38</td> </tr> <tr> <td>0.63</td> <td>25 31 38 50</td> </tr> </tbody> </table> <p>Thread Dia. 0.125 0.164 0.190 0.250 0.313 0.375 0.500</p> <p>Example TC0.50</p>	Thread Selection (Callout)		D	#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 25	0.38	8 10 25 31	0.50	10 25 31 38	0.63
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\$Price Adder	5.00	2.00	Free of Charge	2.00
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When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".

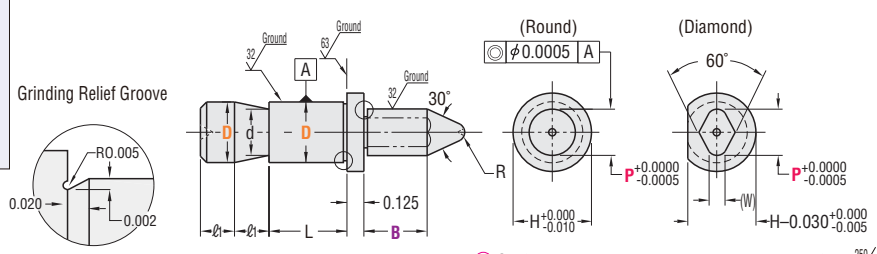
Locating Pins for Jigs & Fixtures –Precision– –Set Screw Fixing with Shoulder–

Similar to the pins from previous page, but with an ability to lock the pin in the fixture with a set screw instead. 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 ℓ1 x 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-LATAN	U-LATDN

Material Characteristics P.628



Grinding Relief Groove

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 0.0005" Increments	B Choose in 0.01" Increments	L	ℓ1	H	d	R	Compatible Set Screw	(W)
	Callout	Nominal	Tolerance									
U-LATAN U-LATDN	0.25	1/4	0.2498 0.2494	0.1250 ~ 0.2500	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	0.1250 ~ 0.3750		0.31	0.313	0.438	0.219	0.060	#10-32	0.040*
	0.38	3/8	0.3748 0.3744	0.1875 ~ 0.4375		0.38	0.313	0.500	0.281	0.090	1/4-20	0.080*
	0.50	1/2	0.4998 0.4994	0.3750 ~ 0.5000		0.50	0.375	0.625	0.406	0.125	5/16-18	0.156
	0.63	5/8	0.6248 0.6244	0.5000 ~ 0.6250		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-LATAN 0.25 — P 0.2000 — B 0.28

*In D=0.25 & 0.31, when P>0.1970, W=0.080. In D=0.38, when P>0.2760, W=0.125.

Days to Ship 8 Days

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Quantity Discount Rate

Quantity	Rate
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D	\$ Unit Price (Qty. 1-4)	
	U-LATAN	U-LATDN
0.25	9.00	14.90
0.31	10.80	16.80
0.38	14.40	20.80
0.50	16.20	22.80
0.63	18.90	24.80

Optional Modifications

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

Type D

U-LATAN 0.25 — P 0.2000 — B 0.28 — RC 60

Optional Modifications	Wrench Flats	Tip Angle	Shoulder Top Radius
		H1	RC

Ordering Code	SC	RC	RTC
		Adds wrench flats.	Changes tip angle. Selection 60°, 90°, 120° Example RC60

Details	SC	RC	RTC												
		<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> <p>Example SC</p> <p>Available for U-LATAN only.</p>	H	H1	0.375	0.313	0.438	0.375	0.500	0.438	0.625	0.563	0.750	0.688	<p>In the case of 90° and 120° the tip has a centerdrilled hole.</p>
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0.375	0.313														
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\$Price Adder	5.00	2.00	Free of Charge
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When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".

