


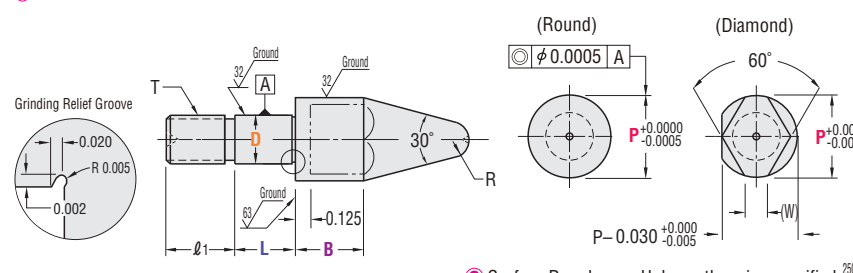
# Locating Pins for Jigs & Fixtures –Precision– –Nut Fixing–

These Precision 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-LNNAN | U-LNNDN |

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<br>Choose in<br>0.0005" Increments | B<br>Choose in<br>0.01" Increments | L<br>Selection |      |      |      |       | L1    | R      | T<br>(Thread) | (W) |
|--------------------|----------|---------|-----------|--------------------------------------|------------------------------------|----------------|------|------|------|-------|-------|--------|---------------|-----|
|                    | D        |         |           |                                      |                                    | 3/8            | 1/2  | 5/8  | 3/4  | 13/16 |       |        |               |     |
|                    | Callout  | Nominal | Tolerance |                                      |                                    |                |      |      |      |       |       |        |               |     |
| U-LNNAN<br>U-LNNDN | 0.38     | 3/8     | 0.3748    | 0.3744                               | 0.5000 ~ 0.6875                    | 0.19 ~ 1.13    | 0.38 | 0.50 | 0.63 | 0.50  | 0.156 | 3/8-16 | 0.156         |     |
|                    | 0.50     | 1/2     | 0.4998    | 0.4994                               | 0.6250 ~ 1.0000                    | 0.19 ~ 1.13    | 0.50 | 0.63 | 0.75 | 0.63  | 0.250 | 1/2-13 | 0.250         |     |
|                    | 0.63     | 5/8     | 0.6248    | 0.6244                               | 1.0000 ~ 1.2500                    | 0.19 ~ 1.13    | 0.63 | 0.75 | 0.81 | 0.75  | 0.313 | 5/8-11 | 0.313         |     |

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

Part No. — P — B — L

Type D

U-LNNAN 0.38 — P 0.5625 — B 0.63 — L 0.50

Days to Ship: 8 Days (Non-Returnable P.30)

Price

| 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-LNNAN                  | U-LNNDN |
| 0.38 | 14.40                    | 20.80   |
| 0.50 | 16.20                    | 22.80   |
| 0.63 | 18.90                    | 24.80   |

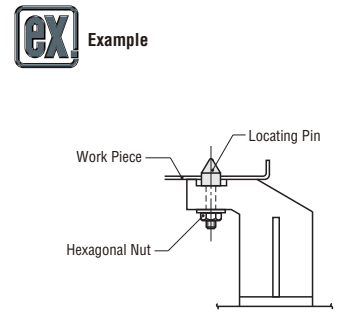
Optional Modifications: Part No. — P — B — L — (Ordering Code) (TC, RC)

Type D

U-LNNAN 0.38 — P 0.5625 — B 0.63 — L 0.50 — RC 60


| Optional Modifications | Tip Angle                                                                                                                       | Thread Diameter                                                                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | RC                                                                                                                              | TC                                                                                                                                                                                                                                                                |
| Ordering Code          | RC                                                                                                                              | TC                                                                                                                                                                                                                                                                |
|                        | Changes tip angle.<br>Selection 60°, 90°, 120°<br>Example RC60<br>In the case of 90° and 120° the tip has a centerdrilled hole. | Changes thread diameter.<br>D Thread Selection (Callout)<br>#8-32   #10-32   1/4-20   5/16-18   3/8-16   1/2-13<br>0.38 8 10 0.25 0.31<br>0.50 10 0.25 0.31 0.38<br>0.63 0.25 0.31 0.38 0.50<br>Thread Dia. 0.164 0.190 0.250 0.313 0.375 0.500<br>Example TC0.50 |
| \$ Price Adder         | 2.00                                                                                                                            | 2.00                                                                                                                                                                                                                                                              |

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



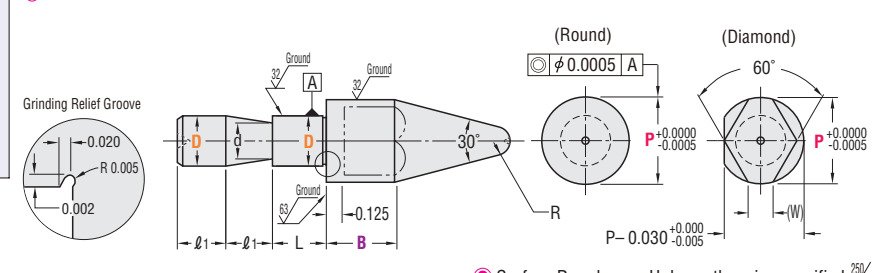
# Locating Pins for Jigs & Fixtures –Precision– –Set Screw Fixing–

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  $\varnothing 1 \times 1.5$  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-LNTAN | U-LNTDN |

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<br>Choose in<br>0.0005" Increments | B<br>Choose in<br>0.01" Increments | L           | L1   | d     | R     | Compatible<br>Set Screw | (W)     |       |
|--------------------|----------|---------|-----------|--------------------------------------|------------------------------------|-------------|------|-------|-------|-------------------------|---------|-------|
|                    | D        |         |           |                                      |                                    |             |      |       |       |                         |         |       |
|                    | Callout  | Nominal | Tolerance |                                      |                                    |             |      |       |       |                         |         |       |
| U-LNTAN<br>U-LNTDN | 0.38     | 3/8     | 0.3748    | 0.3744                               | 0.5000 ~ 0.6875                    | 0.19 ~ 1.13 | 0.38 | 0.313 | 0.281 | 0.156                   | 1/4-20  | 0.156 |
|                    | 0.50     | 1/2     | 0.4998    | 0.4994                               | 0.6250 ~ 1.0000                    | 0.19 ~ 1.13 | 0.50 | 0.375 | 0.406 | 0.250                   | 5/16-18 | 0.250 |
|                    | 0.63     | 5/8     | 0.6248    | 0.6244                               | 1.0000 ~ 1.2500                    | 0.19 ~ 1.13 | 0.50 | 0.375 | 0.531 | 0.313                   | 5/16-18 | 0.313 |

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

Part No. — P — B

Type D

U-LNTAN 0.38 — P 0.5625 — B 0.63

Days to Ship: 8 Days (Non-Returnable P.30)

Price

| 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

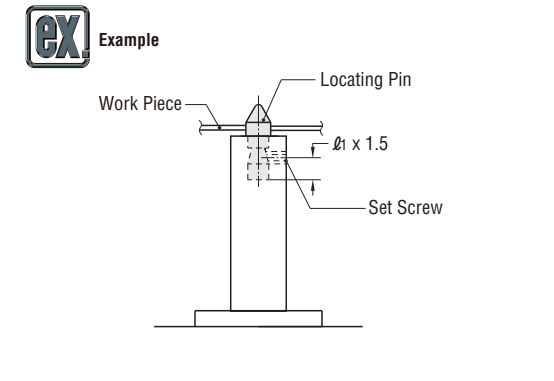
| D    | \$ Unit Price (Qty. 1-4) |         |
|------|--------------------------|---------|
|      | U-LNTAN                  | U-LNTDN |
| 0.38 | 14.40                    | 20.80   |
| 0.50 | 16.20                    | 22.80   |
| 0.63 | 18.90                    | 24.80   |

Optional Modification: Part No. — P — B — (Ordering Code)

Type D

U-LNTAN 0.38 — P 0.5625 — B 0.63 — RC 60

| Optional Modification | Tip Angle                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
|                       | RC                                                                                                                              |
| Ordering Code         | RC                                                                                                                              |
|                       | Changes tip angle.<br>Selection 60°, 90°, 120°<br>Example RC60<br>In the case of 90° and 120° the tip has a centerdrilled hole. |
| \$ Price Adder        | 2.00                                                                                                                            |



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

