

Locating Pins –Shoulder with Tapped Shank–



The Shoulder Locating Pins are commonly used to control and retain the insertion depths of pins with small diameter heads. Choose from untapped shank or bottom tapped shank. Many critical dimensions are selectable or specifiable. Use diamond pins with slight dimensional misalignment (P.326).

Material	Hardness	Type			
		Standard P Dimension		Configurable P Dimension	
		Round	Diamond	Round	Diamond
A2 Tool Steel	60-63HRC	U-JPUB	U-JPDU	U-JPUA	U-JPUD
304 Stainless Steel	-	U-SJPUB	U-SJPDU	U-SJPUA	U-SJPUD

Material Characteristics **P.628, 629**

(Round)

(Diamond)

Surface Roughness: Unless otherwise specified $\sqrt{250}$

Standard P Dimension

Type	Part No.		D		P		L		B		m		H		W		T (Thread)		ℓ
	Callout	Nominal	Tolerance	3/16	1/4	5/16	3/8	1/2	3/16	1/4	5/16	3/8	1/2	3/16	1/4	5/16	3/8	1/2	
U-JPUB	0.25	1/4	0.2498	0.2494	0.19	0.25	0.375	0.188	0.063	0.375	0.078	60°	#5-40	0.125	0.19				
U-JPDU	0.31	5/16	0.3123	0.3119	0.25	0.31	0.594	0.250	0.094	0.438	0.094	60°	#10-32	0.190	0.28				
U-SJPUB	0.38	3/8	0.3748	0.3744	0.31	0.38	0.594	0.313	0.125	0.516	0.109	60°	#10-32	0.190	0.28				
U-SJPDU	0.50	1/2	0.4998	0.4994	0.38	0.50	0.875	0.313	0.156	0.625	0.141	60°	1/4-20	0.250	0.38				

Technical Information

Please refer to the table below for technical information.

P Dimension		
Callout	Nominal	Actual
0.19	3/16	0.1875
0.25	1/4	0.2500
0.31	5/16	0.3125
0.38	3/8	0.3750
0.50	1/2	0.5000



Price

D	\$ Unit Price (Qty. 1~4)			
	Round	Diamond	Round	Diamond
0.25	7.00	9.00	8.20	11.90
0.31	7.20	9.30	8.50	12.30
0.38	7.40	9.60	8.70	12.80
0.50	7.80	10.20	9.20	13.60

Configurable P Dimension

Type	Part No.		D		P		L		B		m		H		W		T (Thread)		ℓ
	Callout	Nominal	Tolerance	Choose in 0.0005" Increments	3/16	1/4	5/16	3/8	1/2	3/16	1/4	5/16	3/8	1/2	3/16	1/4	5/16	3/8	
U-JPUA	0.25	1/4	0.2498	0.2494	0.1250 ~ 0.2810	0.375	0.188	0.063	0.375	0.078	60°	#5-40	0.125	0.19	11.00	13.80	13.40	20.40	
U-JPDU	0.31	5/16	0.3123	0.3119	0.1875 ~ 0.3435	0.594	0.250	0.094	0.438	0.094	60°	#10-32	0.190	0.28	11.40	14.40	13.90	21.20	
U-SJPUA	0.38	3/8	0.3748	0.3744	0.2500 ~ 0.4375	0.594	0.313	0.125	0.516	0.109	60°	#10-32	0.190	0.28	11.80	14.90	14.40	22.10	
U-SJPUD	0.50	1/2	0.4998	0.4994	0.2500 ~ 0.5155	0.875	0.313	0.156	0.625	0.141	60°	1/4-20	0.250	0.38	12.60	16.00	15.40	23.90	

Order Example: Part No. — P — U-JPUB 0.25 — P 0.25

Type D



Price

Quantity	\$ Unit Price (Qty. 1~4)			
	1-4	5-19	20-49	50~
Rate(1day)	—	2%	3%	5%
Rate(Other)	—	5%	10%	15%

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

Days to Ship: **1** Day

Standard P Dimension: **1** Day

Configurable P Dimension: **3** Days (Non-Returnable **P.30**)

Express A: **1** Day (Specify Express A) \$ 5.00/piece **P.30**

A flat charge of \$13.50 for 3 or more identical pieces.

Optional Modifications: Part No. — P — U-JPUD 0.31 — P 0.2810 — HC 0.50

Type D

Optional Modifications available only with "Configurable P Dimension": **6** Days (Non-Returnable **P.30**)

Optional Modifications	Wrench Flats Modification	Lead Modification	Radius Modification																																							
	HC	TC	RC																																							
Details	<p>Add Wrench Flats. Example HC0.44</p> <p>Available only for "Diamond".</p> <table border="1"> <tr> <th>D</th> <th colspan="4">HC (Selection)</th> </tr> <tr> <td>0.25</td> <td>5/16</td> <td>3/8</td> <td>7/16</td> <td>1/2</td> </tr> <tr> <td>0.31</td> <td colspan="4">0.38</td> </tr> <tr> <td>0.38</td> <td colspan="4">0.44</td> </tr> <tr> <td>0.50</td> <td colspan="4">0.50</td> </tr> <tr> <td>Actual</td> <td>0.313</td> <td>0.375</td> <td>0.438</td> <td>0.500</td> </tr> </table>	D	HC (Selection)				0.25	5/16	3/8	7/16	1/2	0.31	0.38				0.38	0.44				0.50	0.50				Actual	0.313	0.375	0.438	0.500	<p>Changes the length of tapered portion. Example TC0.188 (0.001" Increments)</p> <table border="1"> <tr> <th>D</th> <th colspan="2">TC</th> </tr> <tr> <td>0.25</td> <td>0.094 - 0.188</td> <td>0.38</td> </tr> <tr> <td>0.31</td> <td>0.125 - 0.261</td> <td>0.50</td> </tr> </table> <p>B + m ≥ TC + 0.08 (B1 ≥ 0.08)</p> <p>P/2 - TC (tan30°) > 0.02 (The top dia. ≥ 0.040)</p> <p>When TC is selected, dimension B will be changed.</p>	D	TC		0.25	0.094 - 0.188	0.38	0.31	0.125 - 0.261	0.50	<p>Increases structural strength against side impact. Example RC</p> <p>Changes the undercut on shank to R0.02 radius.</p>
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When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".

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		Configurable P, L, B Dimension	Round
		Round	Diamond
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304 Stainless Steel	-	U-SFPUA	U-SFPUD

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Surface Roughness: Unless otherwise specified $\sqrt{250}$

Configurable P, L, B Dimension

Type	Part No.		D		P		L		B		m		H		W		T (Thread)		ℓ
	Callout	Nominal	Tolerance	Choose in 0.0005" Increments	Choose in 0.001" Increments	Choose in 0.001" Increments	3/16	1/4	5/16	3/8	1/2	3/16	1/4	5/16	3/8	1/2			
U-FPUA	0.25	1/4	0.2498	0.2494	0.1250 ~ 0.2810	0.250 ~ 0.500	0.094 ~ 0.375	0.063	0.375	0.078	60°	#5-40	0.125	0.19					
U-FPUD	0.31	5/16	0.3123	0.3119	0.1875 ~ 0.3435	0.313 ~ 0.625	0.094 ~ 0.500	0.094	0.438	0.094	60°	#10-32	0.190	0.28					
U-SFPUA	0.38	3/8	0.3748	0.3744	0.2500 ~ 0.4375	0.375 ~ 0.818	0.094 ~ 0.594	0.125	0.516	0.109	60°	#10-32	0.190	0.28					
U-SFPUD	0.50	1/2	0.4998	0.4994	0.2500 ~ 0.5155	0.500 ~ 1.000	0.125 ~ 0.750	0.156	0.625	0.141	60°	1/4-20	0.313	0.38					

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

Order Example: Part No. — P — L — B

Type D

U-FPUA 0.25 — P 0.1875 — L 0.450 — B 0.375

Days to Ship: **6** Days (Non-Returnable **P.30**)



Price

Quantity	\$ Unit Price (Qty. 1~4)			
	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**

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

Type D

U-FPUA 0.25 — P 0.1875 — L 0.450 — B 0.375 — RC

Optional Modifications	Wrench Flats Modification	Lead Modification	Radius Modification																																							
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When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".

Example: U-JPUB (P.339)

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