


Locating Pins –Large Head with Tapped Shank–



The Locating Pins in this section are provided in: Head O.D. selectable, Head O.D. Specifiable (0.0005" inc.), and Head / Height / Shank Length, all user specifiable groupings. Available in hardened A2 tool steel and 304 stainless steel. See modifications for more customized options. 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-JPBTB	U-JPDTB	U-JPBTA	U-JPBDT
304 Stainless Steel	-	U-SJPBTB	U-SJPDTB	U-SJPBTA	U-SJPBDT
316 Stainless Steel	-	-	-	U-GJPBTA	U-GJPBDT

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 $\sqrt{320}$

Standard P Dimension

Type	Part No.			P					L	B	m	(W)	(α)	T (Thread)	T Dia.	ℓ	
	Callout	Nominal	Tolerance	5/16	3/8	7/16	1/2	9/16									5/8
U-JPBTB	0.25	1/4	0.2498	0.2494	0.31	0.38											
U-JPDTB	0.31	5/16	0.3123	0.3119		0.44	0.50										
U-SJPBTB	0.38	3/8	0.3748	0.3744			0.50	0.56									
U-SJPDTB	0.50	1/2	0.4998	0.4994				0.56	0.63								

Technical Information

Please refer to the table below for technical information.

P Dimension		
Callout	Nominal	Actual
0.31	5/16	0.3125
0.38	3/8	0.3750
0.44	7/16	0.4375
0.50	1/2	0.5000
0.56	9/16	0.5625
0.63	5/8	0.6250



Price

D	\$ Unit Price (Qty. 1~4)			
	Round		Diamond	
	U-JPBTB	U-SJPBTB	U-JPDTB	U-SJPDTB
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.			P Choose in 0.0005" Increments	L	B	m	(W)	(α)	T (Thread)	T Dia.	ℓ	\$ Unit Price (Qty. 1~4)					
	Callout	Nominal	Tolerance										Round	Diamond				
U-JPBTA	0.25	1/4	0.2498	0.2494	0.375	0.313	0.125	0.125	60°	#5-40	0.125	0.19	10.90	13.50	13.40	18.50		
U-JPBDT	0.31	5/16	0.3123	0.3119	0.3750	0.4375	0.594	0.313	0.156	0.141	60°	#10-32	0.190	0.28	11.40	14.10	13.90	19.30
U-SJPBTA	0.38	3/8	0.3748	0.3744	0.4375	0.5620	0.594	0.375	0.156	0.156	60°	#10-32	0.190	0.28	11.70	14.60	14.40	20.00
U-SJPBDT	0.50	1/2	0.4998	0.4994	0.5620	0.6250	0.875	0.375	0.156	0.203	60°	1/4-20	0.313	0.47	12.60	15.70	15.30	21.70

Order Example

Part No. — P — L — B

Type D

U-JPBTB 0.25 — P 0.38



Price

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

Standard P Dimension

Days to Ship **1** Day

Configurable P Dimension

Days to Ship **3** Days **1** Day (Specify Express A) \$5.00/piece P.30

Optional Modifications

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

Type D

U-JPBTA 0.25 — P 0.3440 — RC

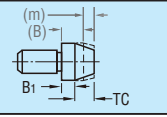
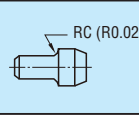


Price


Ⓢ Non-Returnable P.30

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

Ⓢ Optional Modifications available only with "Configurable P Dimension"

Optional Modifications	Head Taper Modification	Radius Modification										
	 TC	 RC										
Details	Changes the length of tapered portion. Example TCO.188 (0.001" Increments) <table border="1"> <thead> <tr> <th>D</th> <th>TC</th> </tr> </thead> <tbody> <tr> <td>0.25</td> <td>0.125 - 0.344</td> </tr> <tr> <td>0.31</td> <td>0.156 - 0.375</td> </tr> <tr> <td>0.38</td> <td>0.156 - 0.438</td> </tr> <tr> <td>0.50</td> <td>0.156 - 0.438</td> </tr> </tbody> </table> <ul style="list-style-type: none"> B + m ≥ TC + 0.08 (B₁ ≥ 0.08) P/2 - TC (tan30°) > 0.02 (The top dia ≥ 0.040) When TC is selected, dimension B will be changed. 	D	TC	0.25	0.125 - 0.344	0.31	0.156 - 0.375	0.38	0.156 - 0.438	0.50	0.156 - 0.438	Increases structural strength against side impact. Example RC <ul style="list-style-type: none"> Changes the undercut on shank to R0.02 radius. Applicable for P-D ≥ 0.08
D	TC											
0.25	0.125 - 0.344											
0.31	0.156 - 0.375											
0.38	0.156 - 0.438											
0.50	0.156 - 0.438											
\$ Price Adder	3.00	3.00										

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



Material	Hardness	Type	
		Configurable P, L, B Dimension Round	Diamond
A2 Tool Steel	60-63HRC	U-FPBTA	U-FPBDT
304 Stainless Steel	-	U-SFPBTA	U-SFPBDT
316 Stainless Steel	-	U-GFPBTA	U-GFPBDT

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 $\sqrt{320}$

Configurable P, L, B Dimension

Type	Part No.			P Choose in 0.0005" Increments	L Choose in 0.001" Increments	B Choose in 0.001" Increments	m	(W)	(α)	T (Thread)	T Dia.	ℓ	
	Callout	Nominal	Tolerance										
U-FPBTA	0.25	1/4	0.2498	0.2494	0.3125 ~ 0.3750	0.250 ~ 0.500	0.094 ~ 0.438	0.125	0.125	60°	#5-40	0.125	0.19
U-FPBDT	0.31	5/16	0.3123	0.3119	0.3750 ~ 0.4375	0.313 ~ 0.625	0.094 ~ 0.594	0.156	0.141	60°	#10-32	0.190	0.28
U-SFPBTA	0.38	3/8	0.3748	0.3744	0.4375 ~ 0.5620	0.375 ~ 0.818	0.125 ~ 0.750	0.156	0.156	60°	#10-32	0.190	0.28
U-SFPBDT	0.50	1/2	0.4998	0.4994	0.5620 ~ 0.6250	0.500 ~ 1.000	0.188 ~ 0.750	0.156	0.203	60°	1/4-20	0.313	0.47

Order Example

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

Part No. — P — L — B

Type D

U-FPBTA 0.25 — P 0.3750 — L 0.375 — B 0.125

Since tapped hole depth will be approx. ℓ + 0.16, the structural strength of the stepped area will deteriorate if L is less than this.

Days to Ship **6** Days

Ⓢ Non-Returnable P.30



Price

Quantity Discount Rate

Quantity Rate	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)			
	Round	Diamond		
	U-FPBTA	U-SFPBTA	U-FPBDT	U-SFPBDT
0.25	13.30	18.50	16.40	25.40
0.31	13.90	19.30	17.20	26.50
0.38	14.30	20.00	17.70	27.70
0.50	15.40	21.60	18.90	29.90

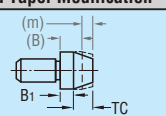
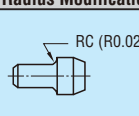


Optional Modifications

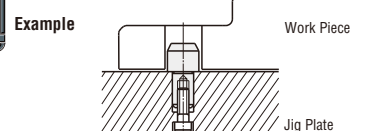
Part No. — P — L — B — (Ordering Code) (RC, TC)

Type D

U-FPBTA 0.25 — P 0.3750 — L 0.375 — B 0.125 — RC

Optional Modifications	Head Taper Modification	Radius Modification										
	 TC	 RC										
Details	Changes the length of tapered portion. Example TCO.188 (0.001" Increments) <table border="1"> <thead> <tr> <th>D</th> <th>TC</th> </tr> </thead> <tbody> <tr> <td>0.25</td> <td>0.125 - 0.469</td> </tr> <tr> <td>0.31</td> <td>0.156 - 0.666</td> </tr> <tr> <td>0.38</td> <td>0.156 - 0.813</td> </tr> <tr> <td>0.50</td> <td>0.156 - 0.813</td> </tr> </tbody> </table> <ul style="list-style-type: none"> B + m ≥ TC + 0.08 (B₁ ≥ 0.08) P/2 - TC (tan30°) > 0.02 (The top dia ≥ 0.040) When TC is selected, dimension B will be changed. 	D	TC	0.25	0.125 - 0.469	0.31	0.156 - 0.666	0.38	0.156 - 0.813	0.50	0.156 - 0.813	Increases structural strength against side impact. Example RC <ul style="list-style-type: none"> Changes the undercut on shank to R0.02 radius. Applicable for P-D ≥ 0.08
D	TC											
0.25	0.125 - 0.469											
0.31	0.156 - 0.666											
0.38	0.156 - 0.813											
0.50	0.156 - 0.813											
\$ Price Adder	3.00	3.00										

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



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