

# Bushings for Locating Pins

## Shouldered, Standard / Thin Wall



# Bushings for Locating Pins

## Configurable, Shouldered, Standard / Thin Wall

**Standard**

Material	Surface Treatment	Hardness	Type	
			p6	m6
O1 Tool Steel Equivalent	-	60HRC~	JBH	JBHM
O1 Tool Steel Equivalent	Electroless Nickel Plating	60HRC~	JBHN	JBHMN
440C Stainless Steel Equivalent	-	50HRC~	JBHC	JBHMC

RoHS

Tolerance of d dimension 2 ~ 6 of electroless nickel plated products is H7.  
 For hole machining, please note that inner diameter shrinkage of p6 Type is more than that of m6 Type.  
 (See "Variance of I.D. after Press-fitting Bushings for Locating Pins" on P1566)

Type	Part Number	D Tolerance		L Selection	Thickness (N)	R	H	T	D	D Tolerance		Unit Price			
		No Surface Treatment	Electroless Nickel Plating							p6	m6	JBH	JBHN	JBHMN	JBHC
(p6) JBH JBHN JBHC	2	+0.008	+0.010	5 6 8 10 12	1.5	0.8	9	2.5	5	+0.020	+0.012				
	3	+0.002	0	5 6 8 *10 12	2		11	7	8	+0.012	+0.004				
	4	+0.012	+0.012	*5 6 8 10 12 15 *16 20	2		12	8	10	+0.024	+0.015				
	5				2.5	1	3	10	+0.015	+0.006					
	6	+0.014	+0.005	5 6 8 10 12 15 16 20 25	2		14	10	12						
	8				2	16	12								
	(m6) JBHM JBHMN JBHMC	10	+0.005	+0.014	6 8 10 12 15 16 20 25	2.5		19	4	15	+0.029	+0.018			
		12	+0.017	+0.006	8 10 12 15 16 20 25 30	3		22	18	20	+0.018	+0.007			
		13				3	22	18							
		15	+0.006	+0.017	10 12 *15 *16 *20 *25 *30	4.5		26	22	25	+0.035	+0.021			
16		5				30	5	25	+0.022	+0.008					
20		+0.020	+0.007	10 12 15 16 20 25 30	5		35	30	26	+0.042	+0.025				
25					5	35	30	+0.026	+0.009						

\*L dimension with \* is not applicable to JBHMC.

**Thin Wall**

Material	Surface Treatment	Hardness	Type	
			p6	m6
Steel*	-	58HRC~	JBHUP	JBHU
Steel*	Electroless Nickel Plating	58HRC~	JBHUNP	JBHUN
440C Stainless Steel Equivalent	-	50HRC~	JBHUCP	JBHUC

\*52100 Bearing Steel or O1 Tool Steel Equivalent

RoHS

Tolerance of d dimension 3 ~ 6 of electroless nickel plated products is H7.  
 For hole machining, please note that inner diameter shrinkage of p6 Type is more than that of m6 Type.  
 (See "Variance of I.D. after Press-fitting Bushings for Locating Pins" on P1566)

Type	Part Number	D Tolerance		L Selection	Thickness (N)	R	H	T	D	D Tolerance		Unit Price			
		No Surface Treatment	Electroless Nickel Plating							p6	m6	JBHU	JBHUN	JBHUNP	JBHUC
(p6) JBHUP JBHUNP JBHUCP	3	+0.008	+0.010	6 8 10 12	1		9	2.5	5	+0.020	+0.012				
	4	+0.002	0	6 8 10 12 15 16			10	6	8	+0.012	+0.004				
	5	+0.012	+0.012	6 8 10 12 *15 *16 20	11		3	7	10	+0.024	+0.015				
	6				8	+0.015	+0.006								
	(m6) JBHU JBHUN JBHUC	8	+0.014	+0.014	6 8 10 12 *15 16 20	1.5		14	10	12					
		10	+0.005	+0.014	6 8 10 12 15 16 20	17		4	13	15	+0.029	+0.018			
12		19				15									
13		+0.017	+0.006	8 10 12 15 16 *20	2		21	17	19	+0.018	+0.007				
15					2	21	17								
16		+0.006	+0.017	10 12 15 16 20	2		24	19	21	+0.035	+0.021				
20					2.5	26	21	+0.022	+0.008						
25		+0.020	+0.007	12 15 16 20 25	3		31	26	31	+0.042	+0.025				
					3	36	31	+0.026	+0.009						

\*L dimension with \* is not applicable to JBHUC.

Ordering Example: Part Number - P - L  
 JBH5 - 8  
 JBHUN12 - 12

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**Standard**

Material	Surface Treatment	Hardness	Type	
			p6	m6
O1 Tool Steel Equivalent	-	56-60HRC	JBHF	JBHF
O1 Tool Steel Equivalent	Black Oxide	56-60HRC	JBHFBP	JBHF
O1 Tool Steel Equivalent	Electroless Nickel Plating	56-60HRC	JBHFMP	JBHF
304 Stainless Steel	-	-	JBHFSP	JBHFS
440C Stainless Steel Equivalent	-	50-55HRC	JBHF	JBHFC

RoHS

For hole machining, please note that inner diameter shrinkage of p6 Type is more than that of m6 Type.  
 (See "Variance of I.D. after Press-fitting Bushings for Locating Pins" on P1566)

Type	Part Number	D Tolerance		P	L	Thickness (N)	R	H	T	Unit Price					
		No Surface Treatment	Electroless Nickel Plating							0.01mm Increment	0.1mm Increment	JBHF	JBHFBP	JBHFMP	JBHFSP
(p6) JBHF JBHFBP JBHFMP JBHFSP JBHF	5	+0.022	+0.012	2.20-2.50	3.0-3.5	1.25-1.50		9	2.5						
	7	+0.024	+0.015	2.20-3.50	3.0-6.0	1.75-2.50		11							
	8	+0.024	+0.015	3.00-4.50	3.0-10.0	1.75-3.00	0.8	12	3						
	10														
	(m6) JBHF JBHFBP JBHFMP JBHFSP JBHF	12	+0.029	+0.018	6.00-8.50	3.0-15.0	2.25-3.50		14						
		15	+0.018	+0.018	10.00-12.50	5.0-35.0	2.75-4.00	1.0	16	4					
		18													
		20	+0.035	+0.021	12.00-13.50	5.0-35.0	3.25-4.00	2.0	19	5					
		22													
		25	+0.022	+0.008	13.00-15.50	5.0-35.0	4.25-5.00	3.0	22	6					
26															
30		+0.022	+0.008	15.00-16.50	5.0-35.0	4.75-6.00	3.0	26	6						
35															

\*L+T≤Px2.5 when P≤3.59 L+T≤Px3.0 when P≥3.60

**Thin Wall**

Material	Surface Treatment	Hardness	Type	
			p6	m6
O1 Tool Steel Equivalent	-	56-60HRC	JBHUF	JBHUF
O1 Tool Steel Equivalent	Black Oxide	56-60HRC	JBHUFBP	JBHUF
O1 Tool Steel Equivalent	Electroless Nickel Plating	56-60HRC	JBHUFMP	JBHUF
440C Stainless Steel Equivalent	-	50-55HRC	JBHUF	JBHUF

RoHS

For hole machining, please note that inner diameter shrinkage of p6 Type is more than that of m6 Type.  
 (See "Variance of I.D. after Press-fitting Bushings for Locating Pins" on P1566)

Type	Part Number	D Tolerance		P	L	Thickness (N)	R	H	T	Unit Price				
		No Surface Treatment	Electroless Nickel Plating							0.01mm Increment	0.1mm Increment	JBHUF	JBHUFBP	JBHUFMP
(p6) JBHUF JBHUFBP JBHUFMP JBHUF	7			3.51-5.00	3.0-6.0	1.00-1.74		11	2.5					
	8	+0.024	+0.015	4.51-6.00	3.0-10.0	1.25-2.24		12						
	9	+0.015	+0.006	4.51-6.50	3.0-10.0	1.00-1.74	0.5	13.5	3					
	10													
	(m6) JBHUF JBHUFBP JBHUFMP JBHUF	11	+0.029	+0.018	8.00-9.00	3.0-15.0	1.00-1.50	1.0	14	4				
		12												
		13	+0.018	+0.007	8.51-10.00	5.0-35.0	1.50-1.74	1.0	15	4				
		14												
		15	+0.029	+0.018	9.00-11.00	5.0-35.0	1.50-2.24	1.0	16	5				
		17												
18		+0.035	+0.021	10.51-12.00	5.0-35.0	1.50-2.24	1.0	17	6					
19														
20		+0.022	+0.008	10.51-13.00	5.0-35.0	2.00-3.24	1.0	18	6					
22														
25	+0.035	+0.021	12.51-14.00	5.0-35.0	2.00-2.74	1.0	19	6						
26														
30	+0.022	+0.008	13.51-15.00	5.0-35.0	2.50-3.24	1.0	21	6						
35														

\*L+T≤Px2.5 when P≤3.59 L+T≤Px3.0 when P≥3.60

Ordering Example: Part Number - P - L  
 JBHF25 - P14.00 - L20.0  
 JBHF15 - P11.00 - L20.0

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Alterations Part Number - P - L - (RC, TC)  
 JBHF12 - P8.00 - L12.0 - RC

Alterations	Code	Spec.
I.D. Radius R	RC	Machines Radius R on both sides. Thickness 1.5mm or more. Size of R will be the same as R on shoulder side with D dimension 10 or more. [Ordering Code] RC
Shoulder Thickness	TC	1mm Increment [Ordering Code] TC4 3:TC-T *O.A.L. becomes short as much as T-TC. *Applicable when D≥12.