

Pivot Pins

Lock Nut with Extra Low Hex Socket Head

■Features: Thinner shoulder design ensures use in limited spaces.

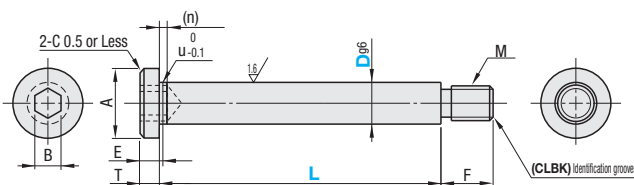


RoHS10

Type	M Material	H Hardness	S Surface Treatment	A Accessory
CLBK	EN 1.1191 Equiv.	40~45HRC	Black Oxide	Nut 1 pc.
CLBKH	EN 1.4301 Equiv.	-	-	MJIS-SWRCH
SCLBK	EN 1.4125 Equiv.	45~50HRC	-	MEN 1.4301 Equiv.
SCLBKH	EN 1.4125 Equiv.	45~50HRC	-	-

CLBK may have identification grooves on the side in order to distinguish it from Hardened Type.
Relief dimension under the shoulder is for reference.

For L Dimension, Standard Machining Tolerances (Class: Medium) is used.
This type may have centering holes depending on dimensions.

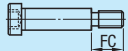


Part Number		L=0.1mm Increment	A	T	F	B	E	u	(n)	M (Coarse)	Unit Price				
Type	D										CLBK	CLBKH	SCLBK	SCLBKH	
CLBK CLBKH SCLBK SCLBKH	4	10.0~50.0	7	1.5	6	2	2	3.9	1.5	M3					
	5	10.0~60.0	9		9	2.5		4.9		M4					
	6	10.0~100.0	10					5.8		M5					
	8		13					7.8		M6					
	10	15.0~100.0	16	2.5	12	3	9.8	M8							
	12	15.0~200.0	18		16		11.8	M10							
	13	25.0~200.0	24		18		5			12.8	M12				
	14									13.8					
	15									14.8					
	16	30.0~200.0			27	24	4			15.8					
	20									19.8					
	25									24.8	M16				

CLBKH may be discolored by hardening.

Ordering Example
Part Number - L
CLBK15 - 120.3

Alterations
Part Number - L - (FC...etc.)
CLBK10 - 50.5 - FC8

	Thread Part Length	Thread Diameter	L Dimension Tolerance	Shoulder Diameter Cut																		
Alterations																						
Code	FC	MC	LKC	HC																		
Spec.	Ordering Code FC4 ⚙FC=1mm Increment ⚙M(MC)≤FC≤M(MC)x3	Ordering Code MC3 <table border="1"><thead><tr><th>D</th><th>MC (Selection Range)</th></tr></thead><tbody><tr><td>5</td><td>3</td></tr><tr><td>6</td><td>3 4</td></tr><tr><td>8</td><td>3 4 5</td></tr><tr><td>10</td><td>4 5 6</td></tr><tr><td>12</td><td>5 6 8</td></tr><tr><td>13~16</td><td>6 8 10</td></tr><tr><td>20</td><td>8 10 12</td></tr><tr><td>25</td><td>10 12</td></tr></tbody></table> ⚙When ordering MC5 for D12, also specify Alteration FC. ⚡Not applicable to D4.	D	MC (Selection Range)	5	3	6	3 4	8	3 4 5	10	4 5 6	12	5 6 8	13~16	6 8 10	20	8 10 12	25	10 12	Ordering Code LKC Changes L dimension tolerance to ±0.05.	Ordering Code HC •D=4~10 HC=A/2-1 •D=12~25 HC=A/2-2
D	MC (Selection Range)																					
5	3																					
6	3 4																					
8	3 4 5																					
10	4 5 6																					
12	5 6 8																					
13~16	6 8 10																					
20	8 10 12																					
25	10 12																					

Pivot Pins

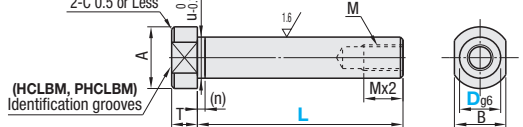
Tapped with Shoulder / Tapped, Hex Socket Head with Shoulder



RoHS10

Type	M Material	H Hardness	S Surface Treatment	D Tolerance (g6)
HCLBM	EN 1.1191 Equiv.	-	Black Oxide	6 -0.004 -0.012
HCLBHM		40~45HRC	-	8, 10 -0.005 -0.014
PHCLBM		-	Electroless Nickel Plating	12~18 -0.006 -0.017
PHCLBHM		40~45HRC	-	20~25 -0.007 -0.020
GHCLBM	EN 1.4301 Equiv.	-	Hard Chrome Plating	-
SHCLBM	EN 1.4125 Equiv.	45~50HRC	-	-
SCLBHM	EN 1.4125 Equiv.	45~50HRC	Hard Chrome Plating	-
GSHCLBHM	EN 1.4125 Equiv.	45~50HRC	Hard Chrome Plating	-

For L Dimension, Standard Machining Tolerances (Class: Medium) is used.
HCLBM, PHCLBM may have identification grooves on the side in order to distinguish them from Hardened Type.
Relief dimension under the shoulder is for reference.



Part Number		L=0.1mm Increment	A	B	u	T	(n)	M (Coarse)	Unit Price							
Type	D								HCLBM	HCLBHM	PHCLBM	PHCLBHM	GHCLBM	SHCLBM	SHCLBHM	GSHCLBHM
HCLBM HCLBHM PHCLBM PHCLBHM GHCLBM SHCLBM SHCLBHM GSHCLBHM	6	15.0~100.0	10	8	5.8	5	1.5	M 3								
	8	15.0~100.0	13	10	7.8			M 5								
	10	20.0~100.0	16	13	9.8			M 6								
	12	20.0~200.0	18	14	11.8			M 8								
	13	25.0~200.0	24	21	12.8											
	14				13.8											
	15				14.8											
	16				15.8			M10								
	17	30.0~200.0			16.8			M12								
	18				17.8											
	20				19.8											
	22	35.0~200.0	27	23	21.8			M16								
	25		30	27	24.8											

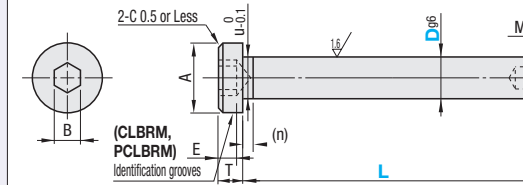
SCLBHM and GSHCLBHM may be discolored by hardening.



RoHS10

Type	M Material	H Hardness	S Surface Treatment	D Tolerance (g6)
CLBRM	EN 1.1191 Equiv.	-	Black Oxide	6 -0.004 -0.012
CLBRHM		40~45HRC	-	8, 10 -0.005 -0.014
PCLBRM		-	Electroless Nickel Plating	12~18 -0.006 -0.017
PCLBRHM		40~45HRC	-	20~25 -0.007 -0.020
GCLBRM	EN 1.4301 Equiv.	-	Hard Chrome Plating	-
SCLBRM	EN 1.4125 Equiv.	45~50HRC	-	-
SCLBRHM	EN 1.4125 Equiv.	45~50HRC	-	-

For L Dimension, Standard Machining Tolerances (Class: Medium) is used.
CLBRM, PCLBRM may have identification grooves on the side in order to distinguish them from Hardened Type.
Relief dimension under the shoulder is for reference.

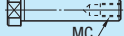
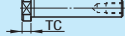
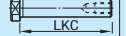
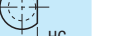


Part Number		L=0.1mm Increment	A	T	B	E	u	(n)	M (Coarse)	Unit Price							
Type	D									CLBRM	CLBRHM	PCLBRM	PCLBRHM	GCLBRM	SCLBRM	SCLBRHM	
CLBRM CLBRHM PCLBRM PCLBRHM GCLBRM SCLBRM SCLBRHM	6	15.0~100.0	10	5	3	2	5.8	1.5	M 3								
	8	20.0~100.0	13		5	3	7.8		M 5								
	10	25.0~100.0	16		6	4	9.8		M 6								
	12	25.0~200.0	18				11.8		M 8								
	13	30.0~200.0	24				12.8										
	14						13.8										
	15						14.8										
	16				15.8	M10											
	17	35.0~200.0	24		8	5	16.8		M12								
	18						17.8										
	20						19.8										
	22						40.0~200.0		27	10	6	21.8	M16				
	25	55.0~200.0	30		12	8	24.8										

SCLBRHM may be discolored by hardening.

Ordering Example
Part Number - L
HCLBHM8 - 35.8
SCLBRHM10 - 50.5

Alterations
Part Number - L - (MC, TC, LKC, HC)
HCLBHM10 - 50.5 - TC3

	Thread Diameter	Shoulder Thickness	L Dimension Tolerance	Shoulder Diameter Cut																
Alterations																				
Code	MC	TC	LKC	HC																
Spec.	Ordering Code MC3 MC (Selection Range) <table><tr><td>D</td><td>MC</td></tr><tr><td>6</td><td>2 6</td></tr><tr><td>8</td><td>3 4</td></tr><tr><td>10, 12</td><td>4 5</td></tr><tr><td>13-15</td><td>5 6</td></tr><tr><td>16-18</td><td>6 8</td></tr><tr><td>20, 22</td><td>8 10</td></tr><tr><td>25</td><td>10 12</td></tr></table>	D	MC	6	2 6	8	3 4	10, 12	4 5	13-15	5 6	16-18	6 8	20, 22	8 10	25	10 12	Ordering Code TC3 TC=0.5mm Increment 2≤TC≤4.5 Not available for Tapped, Hex Socket Head with Shoulder Type.	Ordering Code LKC Changes L dimension tolerance to ±0.05.	Ordering Code HC D=6-8 HC=A/2-1 D=10-25 HC=A/2-2
D	MC																			
6	2 6																			
8	3 4																			
10, 12	4 5																			
13-15	5 6																			
16-18	6 8																			
20, 22	8 10																			
25	10 12																			