Pivot Pins

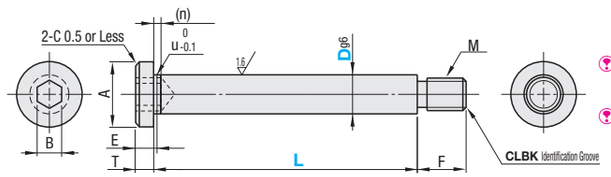
Lock Nut with Extra Low Hex Socket Head

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.	-	Black Oxide	Nut 1 pc.	MJIS-SWRCH
CLBKH		40~45HRC			
SCLBK	EN 1.4301 Equiv.	-	-		MEN 1.4301 Equiv.
SCLBKH	EN 1.4125 Equiv.	45~50HRC			

D Tolerance (g6)	
4~6	-0.004 -0.012
8, 10	-0.005 -0.014
12~18	-0.006 -0.017
20~25	-0.007 -0.020



- There are identification grooves on the side of **CLBK** to be distinguished from Hardened Type.
- Relief dimension under the shoulder is for reference.

25 ▽ (1.6 ▽)

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

Part Number Type	D	L=0.1mm Increment	A	T	F	B	E	u	(n)	M (Coarse)	Unit Price 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			2.5		4.9		M4				
	6	10.0~100.0	10		9			5.8		M5				
	8		13			3		7.8		M6				
CLBK	10	15.0~100.0	16		12	4	3	9.8		M8				
CLBKH	12	15.0~200.0	18	2.5	16			11.8		M10				
SCLBK	13	25.0~200.0	24		18	5		12.8		M12				
SCLBKH	14							13.8						
	15							14.8						
	16	30.0~200.0						15.8						
	20		27		24	6	4	19.8		M16				
	25		30			8	5	24.8						

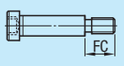
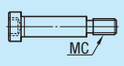
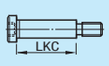
SCLBKH may be discolored by hardening.

Ordering Example

Part Number	-	L
CLBK15	-	120.3

Alterations

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

Alterations	Thread Part Length	Thread Diameter	L Dimension Tolerance	Shoulder Diameter Cut
				
Code	FC	MC	LKC	HC
Spec.	Ordering Code FC4 FC=1mm Increment M(MC)≤FC≤M(MC)x3	Ordering Code MC3 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 When ordering MC5 for D12, also specify Alteration FC. Not applicable to D4.	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

Pivot Pins

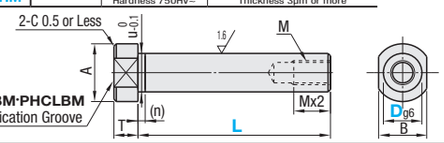
Tapped with Shoulder / Tapped, Hex Socket Head with Shoulder

Tapped with Shoulder

RoHS10

Type	M Material	H Hardness	S Surface Treatment
HCLBM	EN 1.1191 Equiv.	-	Black Oxide
HCLBHM		40~45HRC	
PHCLBM		-	Electroless Nickel Plating
PHCLBHM		40~45HRC	
GHCLBM		Plating Hardness 750HV~	Hard Chrome Plating: Plating Thickness 3μm or more
SHCLBM	EN 1.4301 Equiv.	-	-
SHCLBHM	EN 1.4125 Equiv.	45~50HRC	
GSHCLBHM		45~50HRC Plating Hardness 750HV~	Hard Chrome Plating: Plating Thickness 3μm or more

D Tolerance (g6)	
6	-0.004 -0.012
8, 10	-0.005 -0.014
12~18	-0.006 -0.017
20~25	-0.007 -0.020



25 ▽ (1.6 ▽)

- For L Dimension, Standard Machining Tolerances (Class: Medium) is used.
- There are identification grooves on the side of **HCLBM** and **PHCLBM** to be distinguished from Hardened Type.
- Relief dimension under the shoulder is for reference.

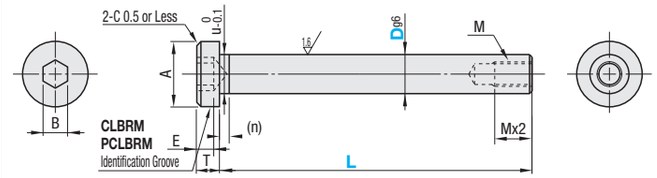
Part Number Type	D	L=0.1mm Increment	A	B	u	T	(n)	M (Coarse)	Unit Price HCLBM	HCLBHM	PHCLBM	PHCLBHM	GHCLBM	SHCLBM	SHCLBHM	GSHCLBHM
	6	15.0~100.0	10	8	5.8	5	1.5	M 3								
	8	15.0~100.0	13	10	7.8			M 5								
HCLBM	10	20.0~100.0	16	13	9.8			M 6								
HCLBHM	12	20.0~200.0	18	14	11.8											
PHCLBM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

SHCLBHM and GSHCLBHM may be discolored by hardening.

Tapped, Hex Socket Head with Shoulder

Type	M Material	H Hardness	S Surface Treatment
CLBRM	EN 1.1191 Equiv.	-	Black Oxide
CLBRHM		40~45HRC	
PCLBRM		-	Electroless Nickel Plating
PCLBRHM		40~45HRC	
GCLBRM		Plating Hardness 750HV~	Hard Chrome Plating: Plating Thickness 3μm or more
SCLBRM	EN 1.4301 Equiv.	-	-
SCLBRHM	EN 1.4125 Equiv.	45 ~ 50HRC	

D Tolerance (g6)	
6	-0.004 -0.012
8, 10	-0.005 -0.014
12~18	-0.006 -0.017
20~25	-0.007 -0.020



- For L Dimension, Standard Machining Tolerances (Class: Medium) is used.
- There are identification grooves on the side of **CLBRM** and **PCLBRM** to be distinguished from Hardened Type.
- Relief dimension under the shoulder is for reference.

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

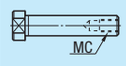
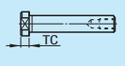
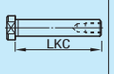
SCLBRHM may be discolored by hardening.

Ordering Example

Part Number	-	L
HCLBHM8	-	35.8
SCLBRHM10	-	50.5

Alterations

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

Alterations	Thread Diameter	Shoulder Thickness	L Dimension Tolerance	Shoulder Diameter Cut
				
Code	MC	TC	LKC	HC
Spec.	Ordering Code MC3 D: MC (Selection Range) 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