

Pivot Pins

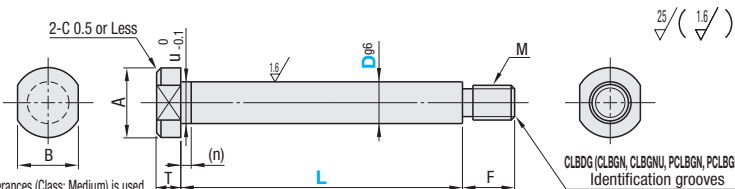
Lock Nut with Shoulder



Type			M Material	H Hardness	S Surface Treatment	A Accessory (1 pc.)	
L Dimension Selectable	L Dimension Configurable	U Nut				Standard Nut	U Nut
CLBDG	CLBGN	CLBGNU	EN 1.1191 Equiv. L Dimension Selectable Type is EN 1.1191 Equiv.	-	Black Oxide	M JIS-SWRCH	M EN 1.0038 Equiv. (UNUTK)
CLBDGH	CLBGHN	CLBGHNU		40~45HRC	Electroless Nickel	M EN 1.4301 Equiv.	M EN 1.4301 Equiv. (UNUTS)
-	PCLBGN	PCLBGNU		-			
	PCLBGHN	PCLBGHNU		40~45HRC	Plating	M JIS-SWRCH	M EN 1.0038 Equiv. (UNUTK)
-	GCLBGN	-	Plating Hardness 750HV~	Hard Chrome Plating	-	M EN 1.4301 Equiv.	M EN 1.4301 Equiv. (UNUTS)
SCLBDG	SCLBGN	SCLBGNU	EN 1.4301 Equiv.	-	-	M EN 1.4301 Equiv.	M EN 1.4301 Equiv. (UNUTS)
-	SCLBGHN	SCLBGHNU	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
20-30	-0.007 -0.020

- For L Dimension, Standard Machining Tolerances (Class: Medium) is used.
- This type may have centering holes depending on dimensions.
- For details of U nut specifications, see P.242.
- CLBDG has identification grooves on the side in order to distinguish it from Hardened Type. (CLBGN, CLBGNU, PCLBGN and PCLBGNU may also have identification grooves.)
- Relief dimension under the shoulder is for reference.



L Dimension Selectable

Part Number	D	L Selection	A	B	T	F	u	(n)	M (Coarse)	Included Nut	Unit Price		
Type	D	L Selection	A	B	T	F	u	(n)	M (Coarse)	Included Nut	CLBDG	CLBDGH	SCLBDG
CLBDG	4	10 12 14 15 16 18 20 22 24 25 30	7	5	3	6	3.9	1.5	M 3	M 3x0.5			
CLBDGH	5	15 16 18 20 22 24 25 30	9	7	4	6	4.9		M 4	M 4x0.7			
(Hardened)	6	15 16 18 20 22 24 25 30	10	8		9	5.8		M 5	M 5x0.8			
SCLBDG	8	15 16 18 20 22 24 25 30 35 40 45 50	13	10	5	12	7.8		M 6	M 6x1.0			
(Stainless Steel)	10	18 20 22 24 25 30 35 40 45 50	16	13		12	9.8		M 8	M 8x1.25			
	12	22 24 25 30 35 40 45 50	18	14		16	11.8		M10	M10x1.5			

L Dimension Configurable (0.1mm Increment)

Part Number		L 0.1mm Increment	A	B	T	F	u	(n)	M (Coarse)	Included Nut	Unit Price													
Type	D										Standard Nut								U Nut					
											CLBGN	CLBGHN	PCLBGN	PCLBGHN	GCLBGN	SCLBGN	SCLBGHN	CLBGNU	CLBGHNU	PCLBGNU	PCLBGHNU	SCLBGNU	SCLBGHNU	
Standard Nut	4	5.0~ 50.0	7	5	3	6	3.9		M 3	M 3x0.5									-	-	-	-	-	-
	5	5.0~ 60.0	9	7	4		4.9		M 4	M 4x0.7														
	6			10	8		5.8		M 5	M 5x0.8														
	8	10.0~100.0	13	10		9	7.8		M 6	M 6x1.0														
	10		16	13		12	9.8		M 8	M 8x1.25														
	12	15.0~200.0	18	14		16	11.8		M10	M10x1.5														
	13						12.8																	
	14	20.0~200.0					13.8																	
	15						14.8																	
U Nut	16		24	21	5	18	15.8	1.5	M12	M12x1.75														
	17						16.8																	
	18						17.8																	
	20	20.0~200.0					19.8																	
	22		27	23		24	21.8																	
	25		30	27			24.8		M16	M16x2.0														
	30	40.0~200.0	35	32		30	29																	

- SCLBGHN and SCLBGHNU may be discolored by hardening.

Ordering Example: Part Number - L
SCLBDG8 - 30
CLBGHN15 - 120.3

Alterations: Part Number - L - (FC, MC, TC, LKC)
CLBGHN15 - 120.3 - FC20 - MC10
Applicable to L Dimension Configurable Type.

Alterations	Thread Part Length	Thread Diameter	Shoulder Thickness	L Dimension Tolerance
	FC	MC	TC	LKC
Code	FC	MC	TC	LKC
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 13~18 6 8 10 20, 22 8 10 12 25 10 12 When ordering MC5 for D12, also specify Alteration FC. Not applicable to D4 and D30. MC3 is not available for U Nut Type.	Ordering Code TC3 TC=0.5mm Increment 2≤TC≤5	Ordering Code LKC Changes L dimension tolerance to ±0.05.

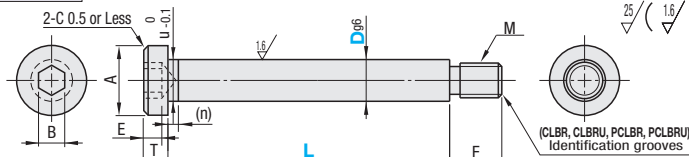
Pivot Pins

Lock Nut with Hex Socket Head



Type		M Material	H Hardness	S Surface Treatment	A Accessory (1 pc.)	
Standard Nut	U Nut				Standard Nut	U Nut
CLBR	CLBRU	EN 1.1191 Equiv.	-	Black Oxide	M JIS-SWRCH	M EN 1.0038 Equiv. (UNUTK)
CLBRH	CLBRHU		40~45HRC	Electroless Nickel	M EN 1.4301 Equiv.	M EN 1.4301 Equiv. (UNUTS)
PCLBR	PCLBRU		-			
PCLBRH	PCLBRHU		40~45HRC	Plating	M JIS-SWRM	M EN 1.0038 Equiv. (UNUTK)
GCLBR	GCLBRU	EN 1.4301 Equiv.	Plating Hardness 750HV~	Hard Chrome Plating	M EN 1.4301 Equiv.	M EN 1.4301 Equiv. (UNUTS)
SCLBR	SCLBRU	EN 1.4125 Equiv.	45 ~ 50HRC	-	M EN 1.4301 Equiv.	M EN 1.4301 Equiv. (UNUTS)
SCLBRH	SCLBRHU	45~50HRC Plating Hardness 750HV~	Hard Chrome Plating	-	-	-
GSCCLBR	GSCCLBRU	-	-	-	-	-

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



- For L Dimension, Standard Machining Tolerances (Class: Medium) is used.
- This type may have centering holes depending on dimensions.
- For details of U nut specifications, see P.242.
- CLBR, CLBRU, PCLBR and PCLBRU 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	D	L=0.1mm Increment	A	T	F	B	E	u	(n)	M (Coarse)	Included Nut
Type	D	L=0.1mm Increment	A	T	F	B	E	u	(n)	M (Coarse)	Included Nut
Standard Nut	4	10.0~ 50.0	7		6	2.5	2	3.9		M 3	M 3x0.5
CLBR	5	10.0~ 60.0	9		9	3	3	4.9		M 4	M 4x0.7
CLBRH	6	10.0~100.0	10		12	6	4	5.8		M 5	M 5x0.8
PCLBR	8	10.0~100.0	13		16	8	5	7.8		M 6	M 6x1.0
PCLBRH	10	10.0~100.0	16		18	10	6	9.8		M 8	M 8x1.25
GCLBR	12	10.0~200.0	18		24	12	8	11.8		M10	M10x1.5
PCLBRH	13	20.0~200.0						12.8			
GCLBRU	14	20.0~200.0						13.8			
SCLBR	15	20.0~200.0						14.8			
SCLBRH	16	20.0~200.0						15.8			
GSCCLBR	17	20.0~200.0						16.8			
	18	20.0~200.0						17.8			
	20	20.0~200.0						19.8			
	22	20.0~200.0						21.8			
	25	20.0~200.0						24.8			

- SCLBRH, SCLBRHU, GSCCLBR and GSCCLBRU may be discolored by hardening.

Ordering Example: Part Number - L
CLBR15 - 120.3

D	Unit Price											
	CLBR	CLBRH	PCLBR	PCLBRH	GCLBR	SCLBR	SCLBRH	GSCCLBR	CLBRU	CLBRHU	PCLBRU	PCLBRHU
4												
5												
6												
8												
10												
12												
13												
14												
15												
16												
17												
18												
20												
22												
25												

Alterations: Part Number - L - (FC / MC / LKC / HC)
CLBR10 - 50.5 - FC8

Alterations	Thread Part Length	Thread Diameter	L Dimension Tolerance	Shoulder Diameter Cut
	FC	MC	LKC	HC
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 13~18 6 8 10 20, 22 8 10 12 25 10 12 When ordering MC5 for D12, also specify Alteration FC. Not applicable to D4. MC3 is not available for U Nut Type.	Ordering Code LKC Changes L dimension tolerance to ±0.05.	Ordering Code HC D=4~8 HC=A/2-1 D=10~25 HC=A/2-2