

Nuts

U-Nuts® / Double Locking Nuts
Hard Lock Nuts®

These nuts are designed with smaller hex envelope and thickness than JIS standard to be used in limited spaces.

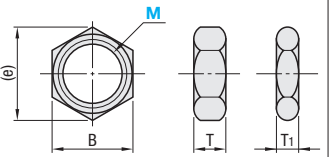
Compact Nuts



PACK- contains 10 pcs.

RoHS 10

SNTRC
SNTRCS (Thin)
PACK-SNTRC
PACK-SNTRCS (Thin)



Material: EN 1.4301 Equiv.
* Strength Class SNTRC: 5T Equiv.
SNTRCS: 4T Equiv.

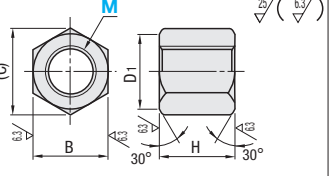
Part Number		(Coarse) Pitch	B	(e)	T	T ₁	SNTRC		SNTRCS		
Type	M						Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	
SNTRC SNTRCS	4	0.7	6	6.9	2.4	2	1 ~ 4 pc(s)	5 ~ 99 pc(s)	100 ~ 500 pcs	1 ~ 4 pc(s)	
	5	0.8	7	8.1	3.2	2.5				5 ~ 99 pc(s)	
	6	1	8	9.2	3.6	3				100 ~ 500 pcs	
	8	1.25	10	11.5	5	4					
	10	1.5	13	15	6	4.5					
	12	1.75	17	19.6	7	5.5					
✿ For orders larger than indicated quantity, please check with WOS.											
Part Number		(Coarse) Pitch	B	(e)	T	T ₁	Qty.	PACK-SNTRC		PACK-SNTRCS	
Type	M							Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
PACK-SNTRC PACK-SNTRCS	4	0.7	6	6.9	2.4	2	10	1 ~ 2 pkg(s)	3 ~ 30 pkgs.	1 ~ 2 pkg(s)	3 ~ 30 pkgs.
	5	0.8	7	8.1	3.2	2.5	10				
	6	1	8	9.2	3.6	3	10				
	8	1.25	10	11.5	5	4	10				
	10	1.5	13	15	6	4.5	10				
	12	1.75	17	19.6	7	5.5	10				
✿ For orders larger than indicated quantity, please check with WOS.											

Tall Nuts



RoHS 10

Type	Material	Surface Treatment	Hardness
NT	EN 1.1191 Equiv.	Trivalent Bright Chromate Plating	25~30HRC
SNT	EN 1.4301 Equiv.	-	-



25 / (6.3)

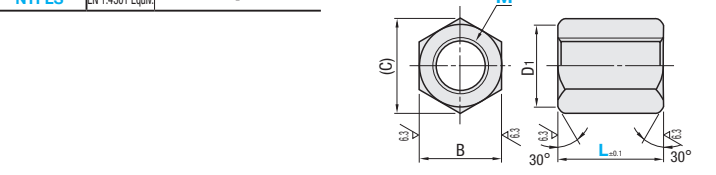
Part Number		H	B	(C)	D ₁	NT		SNT	
Type	M (Coarse)					Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
NT SNT	6	9	10	11.5	9.8	1 ~ 49 pc(s)	50 ~ 500 pcs	1 ~ 49 pc(s)	50 ~ 500 pcs
	8	12	13	15	12.5				
	10	15	17	19.6	16.5				
	12	18	19	21.9	18				
	16	24	24	27.7	23				
	20	30	30	34.6	29				
	24	36	36	41.6	34				
For orders larger than indicated quantity, please check with WOS.									

Configurable Length Nuts



RoHS 10

Type	Material	Surface Treatment
NTFL	EN 1.0038 Equiv.	Electroless Nickel Plating
NTFLS	EN 1.4301 Equiv.	-



25 / (6.3)

Part Number		L	B	(C)	D ₁	NTFL		NTFLS	
Type	M (Coarse)					Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
NTFL NTFLS	3	4 5 6 8 10	6	6.9	5.3	1 ~ 19 pc(s)	20 ~ 49 pc(s)	1 ~ 19 pc(s)	20 ~ 49 pc(s)
	4	5 6 8 10 12 15	7	8.1	6.8	50 ~ 99 pc(s)	100 ~ 200 pcs	50 ~ 99 pc(s)	100 ~ 200 pcs
	5	6 8 10 12 15 20	8	9.2	7.8				
	6	10 12 15 20 25	10	11.5	9.8				
	8	10 15 20 25 30	13	15	12.5				
	10	10 20 25 30 40	17	19.6	16.5				

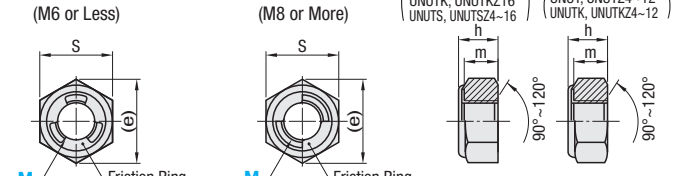
Part Number		L	B	(C)	D ₁	Unit Price	
Type	M (Coarse)	1mm Increment				NTFL	NTFLS
NTFL NTFLS	3	3~10	6	6.9	5.3		
	4	4~15	7	8.1	6.8		
	5	5~20	8	9.2	7.8		
	6	6~25	10	11.5	9.8		
	8	8~30	13	15	12.5		
	10	10~40	17	19.6	16.5		
	12	10~50	19	21.9	18		
	16	10~50	24	27.7	23		

U-Nuts®



U-NUTZ, U-NUTKZ, U-NUTSZ

Type	Pkg.	Body Material	Friction Ring Material	Surface Treatment	Screw Precision
UNUTZ	PACK-UNUT	EN 1.0038 Equiv. or Equiv.	EN 1.4319 Equiv.	Bright Chromate Plating	JIS6H (Class 2)
UNUTKZ	PACK-UNUTK	EN 1.0038 Equiv. or Equiv.	EN 1.4319 Equiv.	Trivalent Chromate	JIS6H (Class 2)
UNUTSZ	PACK-UNUTS	EN 1.4301 Equiv. or Equiv.	EN 1.4319 Equiv.	-	JIS6H (Class 2)



As shown in the figure below, stress P is caused by the spring effect when Friction Ring contacts the thread. The reaction force P' together with P presses hard upon the threads, which creates friction torque (prevailing torque) to prevent any free motion.

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Part Number		UNUTZ		UNUTKZ		UNUTSZ	
Type	M	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
		1 ~ 9 pc(s)	10 ~ 500 pcs.	1 ~ 9 pc(s)	10 ~ 500 pcs.	1 ~ 9 pc(s)	10 ~ 500 pcs.
UNUTZ UNUTKZ UNUTSZ	4						
	5						
	6						
	8						
	10						
	12						
	16						
For orders larger than indicated quantity, please check with WOS.							

Part Number		Qty. /1 pkg.	PACK-UNUT		PACK-UNUTK		PACK-UNUTS	
Type	M		Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
			1 ~ 9 pkg(s).	10 pkg(s).	1 ~ 9 pkg(s).	10 pkg(s).	1 ~ 9 pkg(s).	10 pkg(s).
PACK-UNUT PACK-UNUTK PACK-UNUTS	4	100						
	5	100						
	6	100						
	8	100						
	10	50						
	12	50						
	16	50						
100 pcs./pkg. for M4 ~ 8; 50 pcs./pkg. for M10 ~ 16.								

M	Pitch	S		h		m	(e)	Tightening Torque N·m (kg·cm)	
		Reference Dim.	Tolerance	Reference Dim.	Tolerance			UNUT, UNUTK	UNUTS
4	0.7	7	0	3.8	±0.3	3	8.1	2.2(22)	1.9(19)
5	0.8	8	-0.2	4.6		3.9	9.2	4.4(45)	3.8(39)
6	1.0	10		5.1		4.2	11.5	7.4(75)	6.5(66)
8	1.25	13	0	7.3	±0.4	6.1	15	18(180)	16(160)
10	1.5	17	-0.25	8.3		7.1	19.6	36(370)	31(320)
12	1.75	19	0	10.5		9	21.9	62(630)	55(560)
16	2.0	24	-0.35	14.5	±0.5	13	27.7	155(1600)	135(1400)

Ordering Example

Part Number

UNUTZ4
PACK-UNUT12

Features of U-Nut®

- Capable of stable anti-loosening effect. Prevents screws from falling off even when declines in axial tension.
- Being a solid metal product, the nuts are highly resistant to heat and cold.
- Simplified fastening task makes work management easier.
- Easy parts management prevents inappropriate installation.
- Reusable.

Cautions

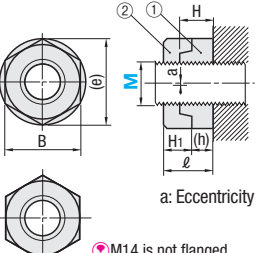
- Make 2 or more pitches of the thread protrude from the friction ring.
- When tightening the nut, refer to the Tightening Torque Chart.
- Use chamfered tipped screws of JIS6g (Class 2) in thread precision.
- Use appropriate lubricant if seizure or scuffing occurs when screwing or unscrewing the nut onto threads.
- Cannot be screwed in from the friction ring side.
- Discontinue the use if abnormal deformation occurs in the friction ring or the clamp.

Double Locking Nuts



RoHS 10

Type	Material	Surface Treatment
HLN	EN 1.0038 Equiv.	Trivalent Chromate
HLNS	EN 1.4301 Equiv.	-

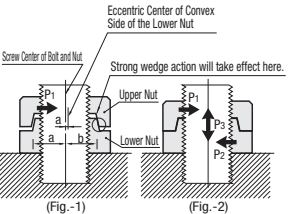


a: Eccentricity

M14 is not flanged.

Part Number		MxPitch	B	(e)	① Lower Nut	② Upper Nut	Pair Height	(h)	Weight per Set (g)	Unit Price
Type	M				Tolerance	H ₁ Tolerance	±Tolerance			HLN HLNS
HLN HLNS (Stainless Steel)	6	6x1.0	10	11.5	5 ±0.3	5 -8.3	8	3	4	
	8	8x1.25	13	15	6.5	6.5	10.6	4.1	8.9	
	10	10x1.5	17	19.6	8 0	8 0	13.2	5.2	18	
	12	12x1.75	19	21.9	10 -0.58	9.3	16	7.0	26	
	14	14x2.0	22	25.4	11 0	11 0	18.5	7.5	39	
	16	16x2.0	24	27.7	13 -0.7	11 -0.7	20	9	46	

Structure and Function of Hard Lock Nuts®



(Fig.-1) (Fig.-2)

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Cautions

Screws or shafts should be machined in accordance with JIS6g (Class 2) for thread precision. Nuts may not fit well due to different thread precision. Although O.D. of the upper nut and the lower nut may become eccentric or clearance may occur during assembling caused by its structure, it does not affect the operation.

* Fig.-1: When upper nut is tightened, stress is automatically applied in P1 arrow direction. Horizontal stress continues to increase with tightening until upper nut closely contacts lower nut as shown in Fig.-2. The nuts are fully locked by the wedge effect.

**Fig.-2: After nuts are tightened, internal stress remains distributed as composite stress of P1+P2+P3 to resist external impact.