

Note that, for some of the types shown here, order might be unable to be received by the MISUMI Malaysia, Indonesia, and/or India offices.

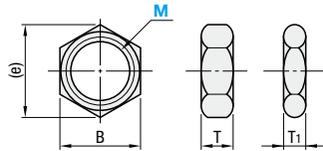
Nuts

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

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



PACK - contains 10 pcs.

Material: SUS304
Strength Class SNTRCS: 5T Equivalent
SNTRCS: 4T Equivalent

Part Number	Type	M	Coarse Pitch	B	(e)	T	T ₁	SNTRC		SNTRCS			
								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 - 99 pc(s)	100 - 500 pcs
	5	0.8	7	8.1	3.2	2.5							
	6	1	8	9.2	3.6	3							
	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.

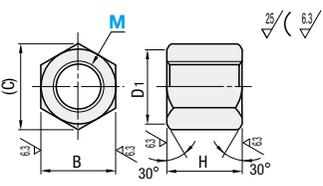
Part Number	Type	M	Coarse Pitch	B	(e)	T	T ₁	Qty.	PACK-SNTRC		PACK-SNTRCS	
									Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
PACK-SNTRC PACK-SNTRCS	4	0.7	6	6.9	2.4	2	10					
	5	0.8	7	8.1	3.2	2.5	10					
	6	1	8	9.2	3.6	3	10					
	8	1.25	10	11.5	5	4	10					
	10	1.5	13	15	6	4.5	10					
	12	1.75	17	19.6	7	5.5	10					

For orders larger than indicated quantity, please check with WOS.

Ordering Example
Part Number
SNTRCS
PACK-SNTRC4

Tall Nuts

Type	Material	Surface Treatment	Hardness
NT	S45C	Trivalent Bright Chromate Plating	25-30HRC
SNT	SUS304	-	-



RoHS

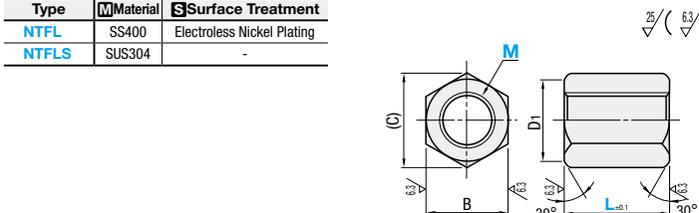
Part Number	Type	M (Coarse)	H	B	(C)	D ₁	NT		SNT	
							Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
NT SNT	6	9	10	11.5	9.8		1 - 49 pc(s)	50 - 500 pcs	1 - 49 pc(s)	50 - 500 pcs
	8	12	13	15	12.5					
	10	15	17	19.6	16.5					
	12	18	19	21.9	18					
	16	24	24	27.7	23					
	20	30	30	34.6	29					
	24	36	36	41.6	34					

For orders larger than indicated quantity, please check with WOS.

Ordering Example
Part Number
NT6

Configurable Length Nuts

Type	Material	Surface Treatment
NTFL	SS400	Electroless Nickel Plating
NTFLS	SUS304	-



RoHS

L Dimension Selectable

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

Ordering Example
Part Number
NTFL6 - L 10

L Dimension Configurable

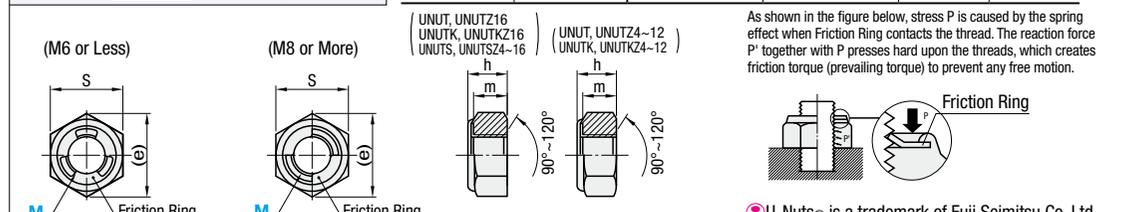
Part Number	Type	M (Coarse)	L	B	(C)	D ₁	Unit Price	
							NTFL	NTFLS
NTFL NTFLS	3	3-10		6	6.9	5.3		
	4	4-15		7	8.1	6.8		
	5	5-20		8	9.2	7.8		
	6	6-25		10	11.5	9.8		
	8	8-30		13	15	12.5		
	10	10-40		17	19.6	16.5		
	12	10-50		19	21.9	18		
	16	10-50		24	27.7	23		

U-Nuts®



Part Numbers in [] are not RoHS compliant. RoHS

Type	Pkg.	Body Material	Friction Ring Material	Surface Treatment	Screw Precision
UNUTZ	PACK-UNUT	SS400 or Equivalent	SUS301	Bright Chromate Plating	JIS6H (Class 2)
UNUTKZ	PACK-UNUTK	SS400 or Equivalent	SUS301	Trivalent Chromate	JIS6H (Class 2)
UNUTSZ	PACK-UNUTS	SUS304 or Equivalent	SUS301	-	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.

U-Nuts® is a trademark of Fuji Seimitsu Co. Ltd.

Part Number	Type	M	UNUTZ		UNUTKZ		UNUTSZ	
			Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
UNUTZ UNUTKZ UNUTSZ	4	1 - 9 pc(s)	10 - 500 pcs	1 - 9 pc(s)	10 - 500 pcs	1 - 9 pc(s)	10 - 500 pcs	
	5							
	6							
	8							
	10							
	16							

Part Number	Type	M	Qty. /1 pkg.	PACK-UNUT		PACK-UNUTK		PACK-UNUTS	
				Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
PACK-UNUT PACK-UNUTK PACK-UNUTS	4	100	10	10	10	10	10	10	
	5	100							
	6	100							
	8	100							
	10	50							
	16	50							

For orders larger than indicated quantity, please check with WOS.

100 pcs./pkg. for M4 - 8; 50 pcs./pkg. for M10 - 16. For orders larger than indicated quantity, please check with WOS.

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	±0.3	3.9	9.2	4.4(45)	3.8(39)	
6	1.0	10		5.1	±0.3	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	±0.4	7.1	19.6	36(370)	31(320)	
12	1.75	19	0	10.5	±0.5	9	21.9	62(630)	55(560)	
16	2.0	24	-0.35	14.5	±0.5	13	27.7	155(1600)	135(1400)	

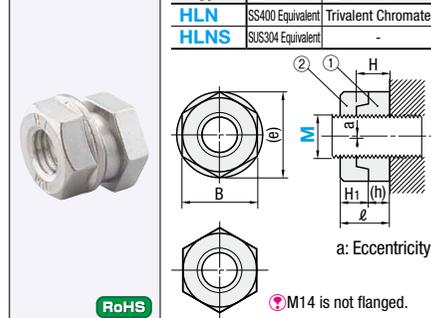
Ordering Example
Part Number
UNUTZ4
PACK-UNUT12

Features of U-Nuts®
 - 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

Type	Material	Surface Treatment
HLN	SS400 Equivalent	Trivalent Chromate
HLNS	SUS304 Equivalent	-

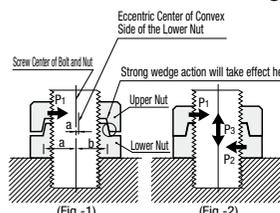


RoHS M14 is not flanged.

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

M	Tightening Torque Reference Value Chart (N · m)					All Materials Tightening Torque (N · m)
	By Material: SS400 or Equivalent	S45C or Equivalent	SCM435 or Equivalent	SUS304, 316 or Equivalent	70(450N/mm ²)	
6	2.3-6	-	1.5-4	3.3-9	4-5	
8	5.6-15	11.2-30	15.8-42	3.7-10	9-13	
10	11-30	22-59	31-84	7-20	18-24	
12	19-52	39-104	55-146	13-34	27-39	
14	31-82	62-165	87-232	20-54	44-58	
16	48-129	97-257	136-362	32-84	70-100	

Structure and Function of Hard Lock Nuts®



Hard Lock Nuts® is a registered trademark of Hard Lock Industry Co., Ltd.

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.

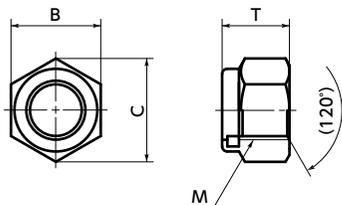
*Fig.-1: When upper nut is tightened, stress is automatically applied in P1 arrow direction. Horizontal stress continues to increase with tightening until upper nut closely contacts lower nut as shown in Fig.-2. The nuts are fully locked by the wedge effect.
 **Fig.-2: After nuts are tightened, internal stress remains distributed as composite stress of P1+P2+P3 to resist external impact.

Ordering Example
Part Number
HLNS

SWUT Hex Lock Nuts - Titanium



- Selection Tool
- CAD Download
- Cleanroom wash & packaging
- Non-Magnetic
- Lightweight
- Vibration resistant treatment



- Specific gravity is approximately 60% of stainless steel.
- These nuts are equipped with vibration resistant patch to prevent screw from loosening.
- Continuous Max. Operating Temperature : -40 to 120 deg C

• Application

Lightweight applications in automobiles, aircrafts, spacecrafts, and robots FPD production equipment, semiconductor devices, electrical and electronic equipment, and loosening prevention

• Material/Finish



	SWUT
Main Body	FRS-9901 (Equivalent to TW340)
Nylon Ring	Nylon 66

Unit : mm

Part Number	M	B	C (Approx.)	T	Mass (g)	Qty per pack
SWUT-M3	M3	5.5	6.4	4	0.27	1
SWUT-M4	M4	7	8.1	5	0.52	1
SWUT-M5	M5	8	9.2	6.5	0.77	1
SWUT-M6	M6	10	11.5	8	1.8	1
SWUT-M8	M8	13	15	9.8	3.5	1
SWUT-M10	M10	17	19.6	12	7.3	1

• Related Products

SWUS Hexagon Lock Nut made of stainless steel is available.
 → P.782



• Part number specification

SWUT-M6

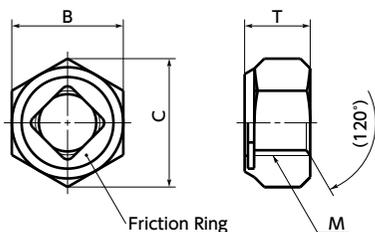


Individual Sales → P.794	Cleanroom Wash & Packaging → P.792	Screw Length Adjustment → P.796	Vibration Resistant → P.795	Modification process for captive use → P.791
1 pc. in 1 bag	Cleanroom washed and packed	Not Available	Not Available	Not Available



SWUS Hex Lock Nuts

Selection Tool
 CAD Download
 Vibration resistant treatment
 SUS Stainless steel



- Nuts equipped with a high-performance mechanism of loosening prevention. For loosening caused by vibration.
- Friction ring with very good restoration elasticity and heat resistance tighten the thread peak of the male thread from four sides. Effective for loosening prevention. The male thread is not damaged.
- Glass fiber reinforced polyamide is used for the friction ring. Rings with heat resistance effectively prevent loosening under conditions up to 110 deg C. In addition, they are not affected by gasoline, alcohol, and oil.
- The friction ring retains most of its effects even after repeated use.

• Application

Loosening Prevention

• Material/Finish

RoHS Compliant

	SWUS
Main Body	SUS304
Friction Ring	Glass Fiber Reinforced Polyamide

Unit : mm

Part Number	M	B	C (Approx.)	T	Mass (g)	Qty*1 per pack
SWUS-M6	M6	10	11.5	6	2	50
SWUS-M8	M8	13	15	8	4.6	20
SWUS-M10	M10	17	19.6	10	11	10
SWUS-M12	M12	19	21.9	12	16	10

*1 The minimum order quantity is 1 piece. → P.794

• Related Products

Hexagon Lock Nut made of titanium is available. → P.633



• Part number specification

SWUS-M8



Order in number of packs.
The minimum order quantity is 1 piece. → P.794

Individual Sales → P.794	Cleanroom Wash & Packaging → P.792	Screw Length Adjustment → P.796	Vibration Resistant → P.795	Modification process for captive use → P.791
Available / Add'l charge	Available / Add'l charge	Not Available	Not Available	Not Available