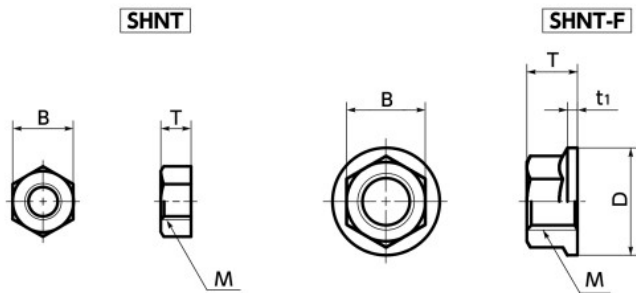




SHNT Hex Nuts - Titanium

Cleanroom wash & packaging Chemical-proof Non-Magnetic Lightweight



Physical property

	TW270 (Grade 1 Titanium)	TW340 (Grade 2 Titanium)
Specific Gravity	4.51	4.51
Melting Point (°C)	1668	1668
Longitudinal Elastic Modulus (GPa)	106	106
Thermal Conductivity (W/(m·K))	17.16	17.16
Linear Expansion Coefficient (K ⁻¹)	8.4×10^{-6}	8.4×10^{-6}
Electric Resistance ($\mu\Omega \cdot m$)	0.55	0.55
Amplitude Permeability (μ)	1.0001 (Nonmagnetic)	1.0001 (Nonmagnetic)

• Values in chart are for reference only. They are not guaranteed values.

Mechanical property

	TW270 (Grade 1 Titanium)	TW340 (Grade 2 Titanium)
Tensile Strength (N/mm ²)	270 - 410	340 - 510
0.2% Proof Stress (N/mm ²)	165 or Higher	215 or Higher
Elongation (%)	27 or Higher	23 or Higher

• Values in chart are for reference only. They are not guaranteed values.

- Specific gravity is approximately 60% of stainless steel.
- Nonmagnetic.
- Excellent chemical and seawater resistance.
- Chemical polishing and brightening processing improve the screw surface. Furthermore, the screws are cleanroom washed, cleanroom packed, and comply with clean specifications that require no oil or foreign matter deposits.

Application

Lightweight applications in automobiles, aircrafts, spacecrafts, and robots FPD production equipment, semiconductor devices, electrical and electronic equipment, aquatic applications, and electrochemical plating

Material/Finish



	SHNT	SHNT-F
Main body	TW270 (Grade 1 Titanium)	TW340 (Grade 2 Titanium)

Part number specification

SHNT-M6-F



Batch cleanroom packing is provided for orders containing multiple items of the same size.

SHNT Hex Nuts - Titanium

Unit : mm

Part Number	M (Coarse)		B	T	Mass (g)
	Nominal of Thread	Pitch			
SHNT-M3	M3	0.5	5.5	2.4	0.2
SHNT-M4	M4	0.7	7	3.2	0.46
SHNT-M5	M5	0.8	8	4	0.69
SHNT-M6	M6	1	10	5	1.4
SHNT-M8	M8	1.25	13	6.5	3.1
SHNT-M10	M10	1.5	17	8	6.5

SHNT-F Hex Flange Nuts - Titanium

Unit : mm

Part Number	M (Coarse)		B	T	t ₁	D	Mass (g)
	Nominal of Thread	Pitch					
SHNT-M3-F	M3	0.5	5.5	3.7	0.8	8	0.4
SHNT-M4-F	M4	0.7	7	4.2	0.8	10	0.72
SHNT-M5-F	M5	0.8	8	5.5	1.1	12	1.3
SHNT-M6-F	M6	1	10	6	1.5	14	1.9
SHNT-M8-F	M8	1.25	12	7.5	1.5	17	3.3
SHNT-M10-F	M10	1.5	14	9	1.8	19	4.8

Individual Sales	Cleanroom Wash & Packaging	Screw Length Adjustment	Vibration Resistant	Modification process for captive use
1 piece in 1 pack	Cleanroom washed and packed	Not Available	Not Available	Not Available