SNSTG Hex Socket Head Cap Screws - High Intensity Titanium Alloy







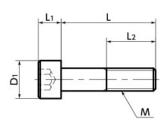








Main Body



Material/Finish



Ti-6Al-4V (64 Titanium)

Physical Properties

	Ti-6Al-4V (64 Titanium)
Specific Gravity	4.43
Melting Point (°C)	1540
Longitudinal Elastic Modulus (GPa)	113
Thermal Conductivity (W/(m·K))	7.5
Linear Expansion Coefficient (K-1)	8.8×10 ⁻⁶
Electric Resistance ($\mu\Omega \cdot m$)	1.7
Amplitude Permeability (μ)	1.0002 (Nonmagnetic)

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

Mechanical Properties

	Ti-6Al-4V (64 Titanium)								
Tensile Strength (N/mm²)	895 or Higher								
0.2% Proof Stress (N/mm²)	825 or Higher								
Elongation (%)	10 or Higher								

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- Made of high-strength titanium alloy.
- The specific gravity is approximately 60% that of stainless steel.
- Non-magnetic.
- Resistant to corrosion and with especially good seawater resistance.
- Special chemical polishing and brightening treatment improve the quality of the surface. Additionally, products have been cleanroom washed and packed. Cleanroom specification prevents oil and dirt from adhering.
- For the properties of titanium materials, see "Properties of Titanium."

Application

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

Unit: mm

Part Number <	M (Coarse)			_																	Tension Rupture		
	Nominal of Thread	Pitch	L	D1 L1 B L2*1 Load *2 (N)													Mass (g)						
SNSTG-M2	M2	0.4	4	5	6	8											3.8	2	1.5	Full Thread	1850	0.1	- 0.14
SNSTG-M2.5	M2.5	0.45	4	5	6	8	10										4.5	2.5	2	Full Thread	3030	0.19	- 0.29
SNSTG-M3	M3	0.5			6	8	10	12	16	20							5.5	3	2.5	Full Thread	5240	0.4	- 0.77
SNSTG-M4	M4	0.7				8	10	12	16	20	25	30					7	4	3	Full Thread	8850	0.94	- 2.1
SNSTG-M5	M5	0.8					10	12	16	20	25	30	35				8.5	5	4	Full Thread	14700	1.5	- 3.6
SNSTG-M6	M6	1					10	12	16	20	25	30	35	40	45	50	10	6	5	45(L=50)	20800	2.7	- 7.5
SNSTG-M8	M8	1.25							16	20	25	30	35	40	45	50	13	8	6	45(L=50)	33700	6.9	- 14
SNSTG-M10	M10	1.5							16	20	25	30	35	40	45	50	16	10	8	45(L=50)	58900	12	- 22

*1: If the "L" value is not in parentheses, the screw is full thread.

*2: Values in chart are for reference only. They are not guaranteed values.

Part number specification



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

