# **SNST-SD** Socket Head Cap Screws with Small Head - Titanium









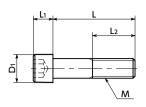












#### Material/Finish

• Material Finish	♥ Ro
	SNST-SD
Main Body	TW340 (Grade 2 Titanium)

#### • Mechanical Properties

	TW340 (Grade 2 Titanium)
Tensile Strength (N/mm²)	340 - 510
0.2% Proof Load (N/mm <sup>2</sup> )	215 or Higher
Elongation (%)	23 or Higher

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

### • Physical Properties

	TW340 (Grade 2 Titanium)
Specific Gravity	4.51
Melting Point (°C)	1668
Longitudinal Elastic Modulus (GPa)	106
Thermal Conductivity (W/( $m \cdot K$ ))	17.16
Linear Expansion Coefficient (K-1)	8.4 × 10 <sup>-6</sup>
Electric Resistance ( $\mu\Omega \cdot m$ )	0.55
Magnetic Permeability ( $\mu$ )	1.0001 (Nonmagnetic)

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- Hex socket head cap screws with small head diameter. Able to reduce the spot facing diameters compared to standard hex socket head cap screws.
- The specific gravity is approximately 60% that of stainless steel.
- Non-magnetic.
- Excellent chemical resistance / seawater resistance.
- For the properties of titanium materials, see "Properties of Titanium."
- 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.

#### Surface quality improved





## Application

🕵 Cleanroom Wash & Packaging 🕍 Screw Length Adjustment 🚅 Vibration Resistant – 📂 Modification process for captive use

Cleanroom washed and packed Available / Add'l charge | Available / Add'l charge | Please feel free to contact us

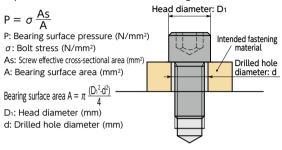
Lighter-weight automobiles, aircrafts/aerospace equipment, robots, etc. FPD production equipment / Semiconductor manufacturing equipment / Electrical and electronic equipment / Offshore instruments / Plating facilities

																		Unit:mm
Part Number	M (Coarse)		1.42										D <sub>1</sub>	1.	В	L2*1	Mass (g)	
rait Nullibel	Nominal of Thread	Pitch	- L <b>€2</b>											וט	LI	Ь	L2**	iviass (g)
SNST-M3-SD	M3	0.5	5	6	8	10	12	16	20					4.5	3	2.5	Full Thread	0.27 - 0.66
SNST-M4-SD	M4	0.7			8	10	12	16	20	25	30			5.5	4	3	20(L=30)	0.83 - 2
SNST-M5-SD	M5	0.8				10	12	16	20	25	30	35		7	4.5	4	22(L≧30)	1.1 - 3.2
SNST-M6-SD	M6	1				10	12	16	20	25	30	35	40	8.5	5.5	5	24(L≧35)	2.2 - 5.7

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

# Precautions for Use

- Since the head bearing surface area is small, the bearing surface pressure increases.
- Using the following formula as a reference, ensure that the bearing surface pressure due to screw tightening does not exceed the permitted surface pressure of the intended fastening material.



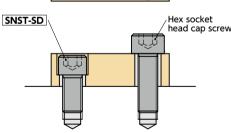
• Head Diameter and Screw Effective Cross-Sectional Area

Part Number	Head Diameter (mm)	Screw Effective Cross-Sectional Area (mm²)
SNST-M3-SD	4.5	5.03
SNST-M4-SD	5.5	8.78
SNST-M5-SD	7	14.2
SNST-M6-SD	8.5	20.1

#### Usage Example

It is possible to perform spot facing and hide the head in locations where spot facing is not possible with standard hex socket head cap screws.





• Part Number Specification



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

1 Individual Sales