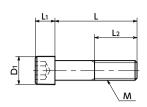
SNST-SD-UT Socket Head Cap Screws with Small Head - Titanium







Chemical-proof × Non-Magnetic

✓ Lightweight

→ Small Head

■ Material/Finish

• Material/Tillish	♥ Re
	SNST-SD-UT
Main Body	TW340 (Grade 2 Titanium)

• Mechanical Properties

	TW340 (Grade 2 Titanium)
Tensile Strength (N/mm²)	340 - 510
0.2% Proof Load (N/mm ²)	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 ⁻⁶
Electric Resistance ($\mu\Omega \cdot m$)	0.55
Magnetic Permeability (μ)	1.0001 (Nonmagnetic)

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



- Hex socket head cap screws with small head diameter. Able to reduce the spot facing diameters compared to standard hex socket head cap
- 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."

Application

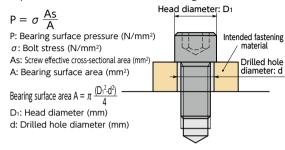
Lighter-weight automobiles, aircrafts/aerospace equipment, robots, etc. FPD production equipment / Semiconductor manufacturing equipment / Electrical and electronic equipment / Offshore instruments / Plating facilities

																		Unit:mm
Part Number •	M (Coarse)			L 42										D ₁		В	L2*1	A4=== (=)
Part Number	Nominal of Thread	Pitch	L	4										וט	L1	Ь	LZ**	Mass (g)
SNST-M3-SD-UT	M3	0.5	5	6	8	10	12	16	20					4.5	3	2.5	Full Thread	0.27 - 0.66
SNST-M4-SD-UT	M4	0.7			8	10	12	16	20	25	30			5.5	4	3	20(L=30)	0.83 - 2
SNST-M5-SD-UT	M5	0.8				10	12	16	20	25	30	35		7	4.5	4	22(L≧30)	1.1 - 3.2
SNST-M6-SD-UT	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.



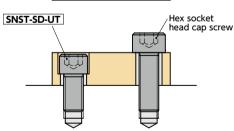
• Head Diameter and Screw Effective Cross-Sectional Area

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

