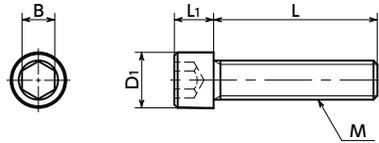


SNSL-SD Socket Head Cap Screws with Small Head - 316L Stainless Steel

SUS Stainless steel Heat-resistance Chemical-proof Non-Magnetic Small Head Miniature Size



● Material/Finish



| | |
|----------------|----------------|
| | SNSL-SD |
| Main Body | SUS316L |
| Strength Class | A4 - 70 |

- Hex socket head cap screws with small head diameter. Able to reduce the spot facing diameters compared to standard hex socket head cap screws.
- SUS316L is a stainless steel made by adding Mo to SUS304, so it has high pitting resistance and oxidation resistance. Due to its reduced carbon, it also has high intergranular corrosion resistance. This screw also has corrosion resistance against chemical products and seawater environments that matches or exceeds SUS304.
- Because the basic components include Mo, the strength is high even at high temperatures.
- Non-magnetic.
- Application

FPD production equipment / Semiconductor manufacturing equipment / Offshore instruments / General industrial machines

Unit : mm

| Part Number | M (Coarse) | | L | | | | | | | | | | | D1 | L1 | B | Mass (g) | Qty per Pack | |
|---------------------|-------------------|-------|---|---|---|----|----|----|----|----|----|----|--|----|-----|-----|----------|--------------|---|
| | Nominal of Thread | Pitch | 5 | 6 | 8 | 10 | 12 | 16 | | | | | | | | | | | |
| SNSL-M2-SD | M2 | 0.4 | 5 | 6 | 8 | 10 | 12 | 16 | | | | | | | 3 | 2 | 1.5 | 0.13 - 0.35 | 5 |
| SNSL-M2.5-SD | M2.5 | 0.45 | 5 | 6 | 8 | 10 | 12 | 16 | | | | | | | 3.8 | 2.5 | 2 | 0.28 - 0.62 | 5 |
| SNSL-M3-SD | M3 | 0.5 | 5 | 6 | 8 | 10 | 12 | 16 | | | | | | | 4.5 | 3 | 2.5 | 0.5 - 1 | 5 |
| SNSL-M4-SD | M4 | 0.7 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | | | | | 5.5 | 4 | 3 | 1.1 - 3.1 | 5 |
| SNSL-M5-SD | M5 | 0.8 | | 6 | 8 | 10 | 12 | 16 | 20 | 25 | | | | | 7 | 4.5 | 4 | 1.9 - 4.2 | 5 |
| SNSL-M6-SD | M6 | 1 | | | 8 | 10 | 12 | 16 | 20 | 25 | 30 | | | | 8.5 | 5.5 | 5 | 3.4 - 7.2 | 5 |
| SNSL-M8-SD | M8 | 1.25 | | | | | 12 | 16 | 20 | 25 | 30 | 35 | | | 11 | 7.5 | 6 | 8.4 - 16 | 5 |

● When purchasing less volume than one full bag, a separate handling fee is charged. For details, see the Sold Separately Service.

⚠ 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.

$$P = \sigma \frac{As}{A}$$

P: Bearing surface pressure (N/mm²)

σ: Bolt stress (N/mm²)

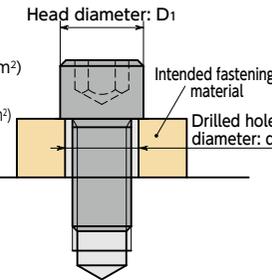
As: Screw effective cross-sectional area (mm²)

A: Bearing surface area (mm²)

$$\text{Bearing surface area } A = \pi \frac{(D_1^2 - d^2)}{4}$$

D₁: Head diameter (mm)

d: Drilled hole diameter (mm)

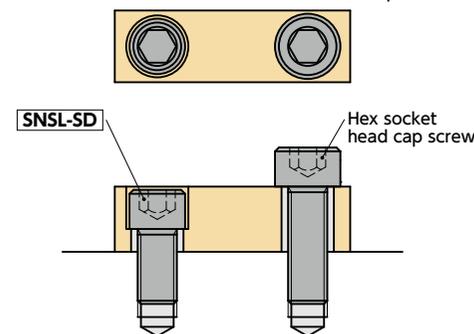


● Head Diameter and Screw Effective Cross-Sectional Area

| Part Number | Head Diameter (mm) | Screw Effective Cross-Sectional Area (mm ²) |
|---------------------|--------------------|---|
| SNSL-M2-SD | 3 | 2.07 |
| SNSL-M2.5-SD | 3.8 | 3.39 |
| SNSL-M3-SD | 4.5 | 5.03 |
| SNSL-M4-SD | 5.5 | 8.78 |
| SNSL-M5-SD | 7 | 14.2 |
| SNSL-M6-SD | 8.5 | 20.1 |
| SNSL-M8-SD | 11 | 36.6 |

● 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

SNSL-M3-10-SD



| | | | | |
|---|---|--|--|---|
| Individual Sales Available / Add'l charge | Cleanroom Wash & Packaging Available / Add'l charge | Screw Length Adjustment Available / Add'l charge | Vibration Resistant Available / Add'l charge | Modification process for captive use Please feel free to contact us |
|---|---|--|--|---|