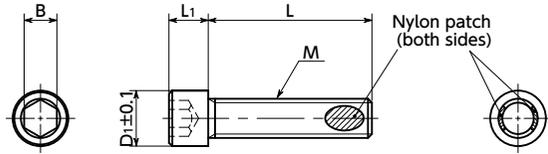


# SNSS-SD-ALK Socket Head Cap Screws with Small Head and Nylon Patch

SUS Stainless steel Protrusion Small Head Vibration resistant treatment



Material/Finish



|                |                               |
|----------------|-------------------------------|
|                | <b>SNSS-SD-ALK</b>            |
| Main Body      | SUSXM7 (Equivalent to SUS304) |
| Nylon Patch    | Nylon 11                      |
| Strength Class | A2 - 70                       |

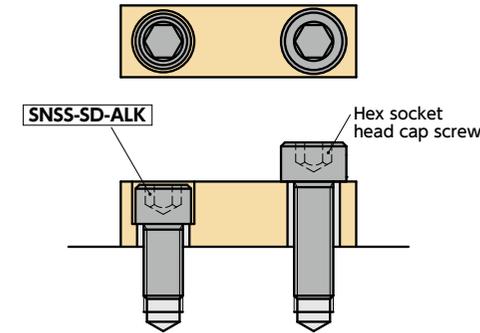
- Screws with small heads and nylon patch. Able to reduce the spot facing diameters compared to standard hex socket head cap screws.
- The friction of the nylon adhered to the thread suppresses the return rotation of the thread.
- Even if the tightening force is lost, the return rotation is suppressed, preventing the screws from falling off.
- The heat resistant temperature of the nylon patch is 120°C.

Application

Reducing the size of equipment and devices  
Screw return and fallout prevented

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.



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/mm<sup>2</sup>)

σ: Bolt stress (N/mm<sup>2</sup>)

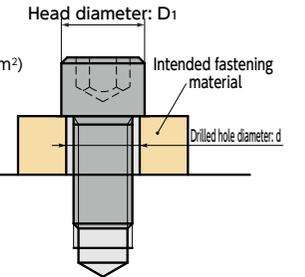
As: Screw effective cross-sectional area (mm<sup>2</sup>)

A: Bearing surface area (mm<sup>2</sup>)

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

D<sub>1</sub>: 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 <sup>2</sup> ) |
|-------------------------|--------------------|---|
| <b>SNSS-M2-SD-ALK</b>   | 3                  | 2.07  |
| <b>SNSS-M2.5-SD-ALK</b> | 3.8                | 3.39  |
| <b>SNSS-M3-SD-ALK</b>   | 4.5                | 5.03  |
| <b>SNSS-M4-SD-ALK</b>   | 5.5                | 8.78  |
| <b>SNSS-M5-SD-ALK</b>   | 7                  | 14.2  |
| <b>SNSS-M6-SD-ALK</b>   | 8.5                | 20.1  |
| <b>SNSS-M8-SD-ALK</b>   | 11                 | 36.6  |

Unit : mm

| Part Number             | M (Coarse)        |       | L |   |   |   |   |    |    |    |    |    |    |    |    | D <sub>1</sub> | L <sub>1</sub> | B   | Mass (g) | Qty per Pack |     |
|-------------------------|-------------------|-------|---|---|---|---|---|----|----|----|----|----|----|----|----|----------------|----------------|-----|----------|--------------|-----|
|                         | Nominal of Thread | Pitch | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 35 | 11 |                |                |     |          |              | 7.5 |
| <b>SNSS-M2-SD-ALK</b>   | M2                | 0.4   | 3 | 4 | 5 | 6 |   |    |    |    |    |    |    |    |    |                | 3              | 2   | 1.5      | 0.72 - 0.92  | 10  |
| <b>SNSS-M2.5-SD-ALK</b> | M2.5              | 0.45  |   | 4 | 5 | 6 | 8 |    |    |    |    |    |    |    |    |                | 3.8            | 2.5 | 2        | 0.53 - 0.73  | 10  |
| <b>SNSS-M3-SD-ALK</b>   | M3                | 0.5   |   |   | 5 | 6 | 8 | 10 | 12 |    |    |    |    |    |    |                | 4.5            | 3   | 2.5      | 0.53 - 0.83  | 10  |
| <b>SNSS-M4-SD-ALK</b>   | M4                | 0.7   |   |   |   | 6 | 8 | 10 | 12 | 16 | 20 | 25 |    |    |    |                | 5.5            | 4   | 3        | 1.2 - 2.7    | 10  |
| <b>SNSS-M5-SD-ALK</b>   | M5                | 0.8   |   |   |   |   | 8 | 10 | 12 | 16 | 20 | 25 |    |    |    |                | 7              | 4.5 | 4        | 2.5 - 4.6    | 10  |
| <b>SNSS-M6-SD-ALK</b>   | M6                | 1     |   |   |   |   |   | 8  | 10 | 12 | 16 | 20 | 25 | 30 |    |                | 8.5            | 5.5 | 5        | 3.6 - 7.4    | 10  |
| <b>SNSS-M8-SD-ALK</b>   | M8                | 1.25  |   |   |   |   |   |    | 10 | 12 | 16 | 20 | 25 | 30 | 35 |                | 11             | 7.5 | 6        | 8.1 - 16     | 10  |

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

|   |   |                                       |                                   |  |
|---|---|---------------------------------------|-----------------------------------|--|
| Individual Sales Available / Add'l charge | Cleanroom Wash & Packaging Available / Add'l charge | Screw Length Adjustment Not Available | Vibration Resistant Not Available | Modification process for captive use Not Available |
|---|---|---------------------------------------|-----------------------------------|--|

Part Number Specification

**SNSS-M5-20-SD-ALK**

