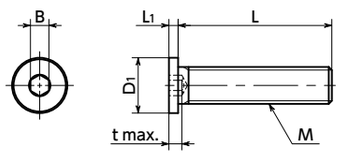
SSHL-SD Socket Head Cap Screws with Ultra Low Profile & Small Head - 316L Stainless Steel

SUS Stainless steel | Protrusion | Heat-resistance | Chemical-proof | Non-Magnetic | Small Head



- Material/Finish

RoHS

	SSHL-SD
Main Body	SUS316L
Strength Class	A4 - 70

- Do not exceed the max. tightening torque.

- SUS316L hex socket head cap screws with special low profile small heads.
- All head heights are 1.5 mm or less. For space-saving of equipment/devices and applications with limited overhead space.
- Because the head diameter is small, spot facing diameters can be reduced compared to standard hex socket head cap screws with special low profiles.
- 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.
- Non-magnetic.
- To distinguish from **SSHS-SD**, **SSHL-SD** has a dimpled tip.

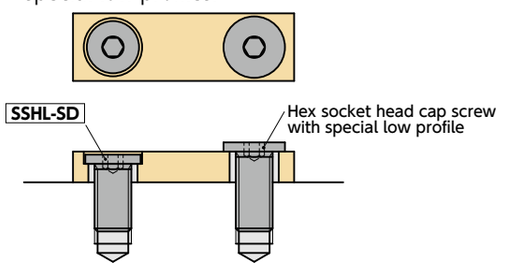
SSHL-SD **SSHS-SD**

- Application

Reducing the size of equipment and devices

- 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 with special low profiles.



⚠ Precautions for Use

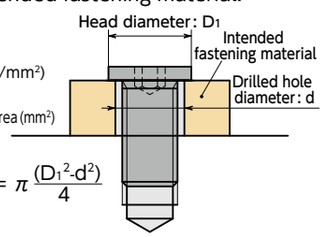
- Since the head bearing surface area is small, the bearing surface pressure increases.
- Using the following formula as a reference, ensure that the bearing surface pressure due to screw tightening does not exceed the permitted surface pressure of the intended fastening material.

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

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 (mm²)
SSHL-M3-SD	5	5.03
SSHL-M4-SD	6	8.78
SSHL-M5-SD	8	14.2

Unit : mm

Part Number 1	M (Coarse)		L 2				D1	L1	B	t	Max. Torque *1 (N・m)	Mass (g)	Qty per Pack
	Nominal of Thread	Pitch											
SSHL-M3-SD	M3	0.5	6	8	10		5	1.3	1.5	2	1	0.44 - 0.61	10
SSHL-M4-SD	M4	0.7	6	8	10		6	1.5	2	2.5	2	0.89 - 1.2	10
SSHL-M5-SD	M5	0.8		8	10	12	8	1.5	3	3	5	1 - 1.5	10

*1: The maximum tightening torque of the screw body. Values in chart are for reference only. They are not guaranteed values. With reference to the Precautions for Use, consider the bearing surface pressure when deciding on the tightening torque.

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

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

- Part Number Specification

SSHL-M3 - 10 - SD
1 2 1

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