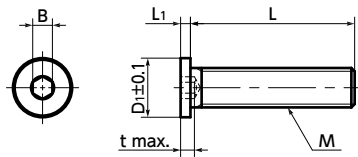


SSH-SD/SSHS-SD Socket Head Cap Screws with Ultra Low Profile & Small Head

SUS Stainless steel Protrusion Small Head

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● Application

Reducing the size of equipment and devices

● Material/Finish

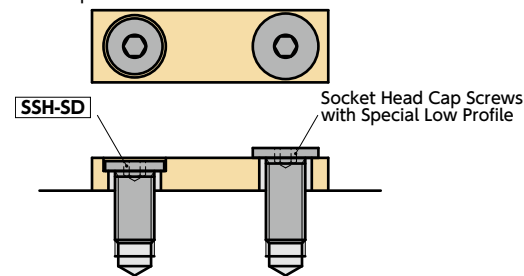


	SSH-SD	SSH-SD-EL	SSHS-SD
Main Body	SCM435 Ferrosoferric Oxide Coating (Black)	SCM435 Electroless Nickel Plating	SUSXM7 (Equivalent to SUS304)
Strength Class	Thread : 10.9 Head*1 : 5.8 (M3 - M8) 4.8 (M10)	Thread : 10.9 Head*1 : 5.8 (M3 - M8) 4.8 (M10)	A2-50

*1 : Do not exceed the maximum tightening torque. While strength is increased through heat treatment, the head strength is less than the thread strength.

● Usage example

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



SSHS-SD



SSH-SD-EL

SSH-SD

- Socket head cap screws with special low profiles and small head diameters. This makes it possible to reduce the spot facing diameter compared to standard socket head cap screws with special low profiles.

⚠ Precautions for Use

- Since the head bearing surface area is small, bearing surface pressure becomes high.
- 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.

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

P : Bearing surface pressure (N/mm²)
 σ : Bolt stress (N/mm²)
 A_s : Screw effective sectional area (mm²)
 A : Bearing surface area (mm²)

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

D_1 : 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)
SSH-M3-SD	5	5.03
SSH-M4-SD	6	8.78
SSH-M5-SD	8	14.2
SSH-M6-SD	9	20.1
SSH-M8-SD	11	36.6
SSH-M10-SD	13.5	58

SSH-SD Made of Steel · Ferrosoferric Oxide Film

Unit : mm

Part Number	M (Coarse)		L 3								D1	L1	Lb	B	t	Max. Torque*1 (N・m)	Mass (g)	Qty per pack
	Nominal of Thread 2	Pitch																
SSH-M3-SD	M3	0.5	6	8	10	12					5	1.3	1.5	1.5	2	0.7	0.4 - 0.7	10
SSH-M4-SD	M4	0.7	6	8	10	12	16				6	1.5	1.6	2	2.5	1.7	0.7 - 1.5	10
SSH-M5-SD	M5	0.8	6	8	10	12	16	20			8	1.5	2	3	3	6.2	1.2 - 2.9	10
SSH-M6-SD	M6	1	6	8	10	12	16	20	25	30	9	1.5	2.5	3	4	6.3	1.6 - 5.8	10
SSH-M8-SD	M8	1.25	8	10	12	16	20	25	30	11	1.5	3	4	5	14	3.1 - 10	10	
SSH-M10-SD	M10	1.5		10	12	16	20	25	30	13.5	1.5	3.5	5	6	27	5.7 - 16	10	

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

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

SSH-SD-EL Made of Steel · Electroless Nickel Plating

Unit : mm

Part Number	M (Coarse)		L								D1	L1	Lb	B	t	Max. Torque*1 (N·m)	Mass (g)	Qty per pack
	Nominal of Thread	Pitch																
SSH-M3-SD-EL	M3	0.5	6	8	10	12					5	1.3	1.5	1.5	2	0.7	0.4 - 0.7	10
SSH-M4-SD-EL	M4	0.7	6	8	10	12	16				6	1.5	1.6	2	2.5	1.7	0.7 - 1.5	10
SSH-M5-SD-EL	M5	0.8	6	8	10	12	16	20			8	1.5	2	3	3	6.2	1.2 - 2.9	10
SSH-M6-SD-EL	M6	1	6	8	10	12	16	20	25	30	9	1.5	2.5	3	4	6.3	1.6 - 5.8	10
SSH-M8-SD-EL	M8	1.25		8	10	12	16	20	25	30	11	1.5	3	4	5	14	3.1 - 10	10
SSH-M10-SD-EL	M10	1.5			10	12	16	20	25	30	13.5	1.5	3.5	5	6	27	5.7 - 16	10

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

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SSHS-SD Made of Stainless Steel

Unit : mm

Part Number	M (Coarse)		L								D1	L1	Lb	B	t	Max. Torque*1 (N · m)	Mass (g)	Qty per pack	
	Nominal of Thread	Pitch																	
SSHS-M2-SD	M2	0.4	5	6	8						3.2	1.1	1.2	1.3	1.2	0.18	0.087 - 0.15	10	
SSHS-M2.5-SD	M2.5	0.45	5	6	8						4	1.3	1.4	1.3	1.5	0.36	0.19 - 0.28	10	
SSHS-M3-SD	M3	0.5		6	8	10	12				5	1.3	1.5	1.5	2	0.6	0.4 - 0.7	10	
SSHS-M4-SD	M4	0.7		6	8	10	12	16			6	1.5	1.6	2	2.5	1.5	0.7 - 1.5	10	
SSHS-M5-SD	M5	0.8		6	8	10	12	16	20		8	1.5	2	3	3	3.1	1.2 - 2.9	10	
SSHS-M6-SD	M6	1		6	8	10	12	16	20	25	30	9	1.5	2.5	3	4	5.3	1.6 - 5.8	10
SSHS-M8-SD	M8	1.25			8	10	12	16	20	25	30	11	1.5	3	4	5	12	3.1 - 10	10
SSHS-M10-SD	M10	1.5				10	12	16	20	25	30	13.5	1.5	3.5	5	6	25	5.7 - 16	10

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

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● Part number specification

SSH-M5-20-SD-EL



1 Individual Sales → P.0000 Cleanroom Wash & Packaging → P.0000 Screw Length Adjustment → P.0000 Vibration Resistant → P.0000 Modification process for captive use → P.0000
 Available / Add'l charge Please feel free to contact us Available / Add'l charge Available / Add'l charge Please feel free to contact us