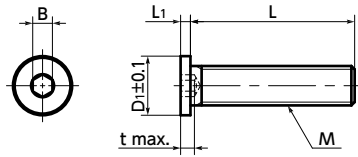


SSH-SD/SSHS-SD Socket Head Cap Screws with Extreme Low & Small Head

WEB Selection Tool | WEB CAD Download | SUS Stainless steel | Protusion | Small Head



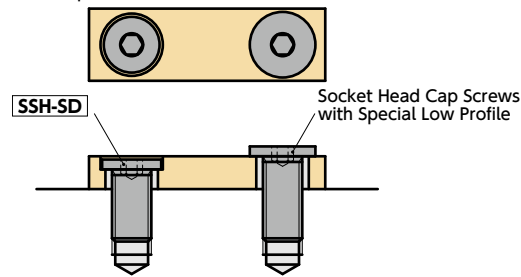
- Socket head cap screws with special low profiles and small head diameters. This makes it possible to reduce the spot facing diameter compared to standard socket head cap screws with special low profiles.

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 socket head cap screws with special low profiles.



⚠️ Precautions for Use

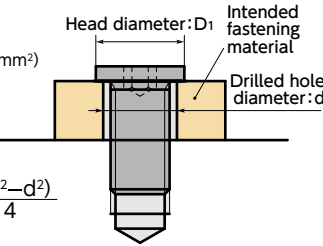
- Since the head bearing surface area is small, bearing surface pressure becomes high.
- Using the following formula as a reference, ensure that the bearing surface pressure due to screw tightening does not exceed the permitted surface pressure of the intended fastening material.

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

P : Bearing surface pressure (N/mm²)
 σ : Bolt stress (N/mm²)
 As : 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 · Ferrosferric Oxide Film

Part Number	M (Coarse)		L	D1	L1	Lb	B	t	Max. Torque*1 (N·m)	Mass (g)
	Nominal of Thread	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
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
SSH-M5-SD	M5	0.8	6 8 10 12 16 20	8	1.5	2	3	3	6.2	1.2 - 2.9
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
SSH-M8-SD	M8	1.25	8 10 12 16 20 25 30	11	1.5	3	4	5	14	3.1 - 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

*1: The maximum tightening torque of the screw body.

Part Number	Qty per pack*1
SSH-M3-SD	10
SSH-M4-SD	10
SSH-M5-SD	10
SSH-M6-SD	10
SSH-M8-SD	10
SSH-M10-SD	10

*1: Also sold separately from 1 piece up. → P.xxxx

[Individual Sales](#) → P.xxxx |
 [Cleanroom Wash & Packaging](#) → P.xxxx |
 [Screw Length Adjustment](#) → P.xxxx |
 [Vibration Resistant](#) → P.xxxx |
 [Modification process for captive use](#) → P.xxxx
 Available / Add'l charge | Please feel free to contact us | Available / Add'l charge | Available / Add'l charge | Please feel free to contact us

• Material/Finish

	SSH-SD	SSH-SD-EL	SSHS-SB
Main Body	SCM435 Ferrosferric 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.

• Part number specification

SSH-M5-20-SD-EL



Order in number of packs.
Also sold separately from 1 piece up. → P.xxxx

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

Part Number	M (Coarse)		L	D1	L1	Lb	B	t	Max. Torque*1 (N·m)	Mass (g)
	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
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
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
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
SSH-M8-SD-EL	M8	1.25	8 10 12 16 20 25 30	11	1.5	3	4	5	14	3.1 - 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

*1: The maximum tightening torque of the screw body.

Part Number	Qty per pack*1
SSH-M3-SD-EL	10
SSH-M4-SD-EL	10
SSH-M5-SD-EL	10
SSH-M6-SD-EL	10
SSH-M8-SD-EL	10
SSH-M10-SD-EL	10

*1: Also sold separately from 1 piece up. → P.xxxx

SSHS-SD Made of Stainless Steel

Part Number	M (Coarse)		L	D1	L1	Lb	B	t	Max. Torque*1 (N·m)	Mass (g)
	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
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
SSHS-M3-SD	M3	0.5	6 8 10 12	5	1.3	1.5	1.5	2	0.6	0.4 - 0.7
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
SSHS-M5-SD	M5	0.8	6 8 10 12 16 20	8	1.5	2	3	3	3.1	1.2 - 2.9
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
SSHS-M8-SD	M8	1.25	8 10 12 16 20 25 30	11	1.5	3	4	5	12	3.1 - 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

*1: The maximum tightening torque of the screw body.

Part Number	Qty per pack*1
SSHS-M2-SD	10
SSHS-M2.5-SD	10
SSHS-M3-SD	10
SSHS-M4-SD	10
SSHS-M5-SD	10
SSHS-M6-SD	10
SSHS-M8-SD	10
SSHS-M10-SD	10

*1: Also sold separately from 1 piece up. → P.xxxx