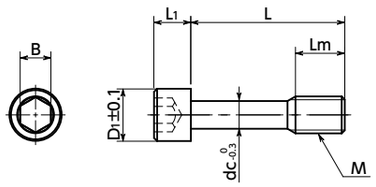
SSC-SD Socket Head Cap Captive Screws with Small Head

SUS Stainless steel Protrusion Small Head



● Material/Finish

RoHS

	SSC-SD
Main Body	SUSXM7 (Equivalent to SUS304)
Strength Class	A2 - 70

- Prevents fallout and loss of the screw. They are intended to fix protective and inspection covers that are frequently installed and removed.
- For CE Marking compatibility.

● Application

For fixing protective covers and maintenance covers
CE Marking compatible
Machine tools / Food machinery / Electrical and electronic equipment

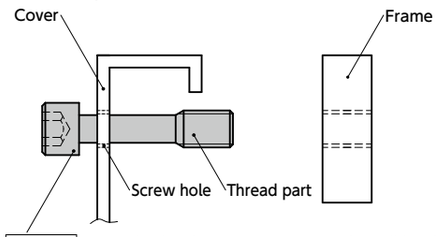
Unit : mm

Part Number 1	M (Coarse)		L 2									Lm	D1	L1	B	dc	Mass (g)
	Nominal of Thread	Pitch															
SSC-M3-SD	M3	0.5	8	10	12							4	4.5	3	2.5	2.2	0.8 - 0.96
SSC-M4-SD	M4	0.7		10	12	16	20					5	5.5	4	3	3	1.8 - 2.7
SSC-M5-SD	M5	0.8			12	16	20	25				6	7	4.5	4	3.9	3 - 4.8
SSC-M6-SD	M6	1			12	16	20	25	30			8	8.5	5.5	5	4.5	5.1 - 8.3
SSC-M8-SD	M8	1.25				16	20	25	30	35	40	10	11	7.5	6	6.3	12 - 21

1 Individual Sales	Cleanroom Wash & Packaging	Screw Length Adjustment	Vibration Resistant	Modification process for captive use
1 piece in 1 pack	Available / Add'l charge	Not Available	Not Available	with Captive Processing

● Installation Example

Make a screw hole in the cover, and then pass the **SSC-SD** thread part through it. Even when the screw is removed from the frame, **SSC-SD** does not fall out of the cover because the **SSC-SD** thread part catches on the cover screw hole.



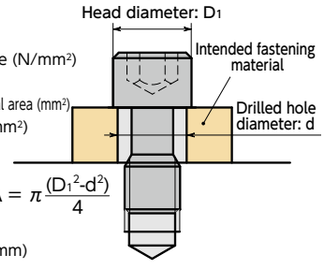
SSC-SD Hex socket head cap captive screw with small head

⚠ Precautions for Use

- Screw hole inner diameter on the cover side shall be at least the dc dimension.
- The cover thickness should be 0.8 mm or above.
- 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)



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)
SSC-M3-SD	4.5	5.03
SSC-M4-SD	5.5	8.78
SSC-M5-SD	7	14.2
SSC-M6-SD	8.5	20.1
SSC-M8-SD	11	36.6

● Part Number Specification

SSC-M5 - 16 - SD
1 2 1

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