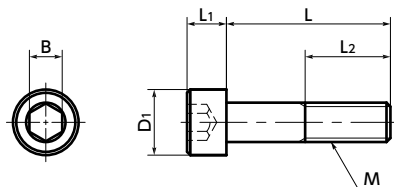


# SNSX Socket Head Cap Screws - High Intensity S.S.

[WEB Selection Tool](#)
[WEB CAD Download](#)
[Heat-resistance](#)
[Chemical-proof](#)
[Non-Magnetic](#)
[High strength](#)
[SUS Stainless steel](#)



## Application

FPD production equipment, semiconductor devices, sputtering equipment, aquatic applications, and general industrial machines

## Material/Finish

RoHS Compliant

	SNSX-88	SNSX-109
Main Body	SUS316L HiMo	SUS316L HiMo
Strength Class	8.8	10.9

**SNSX-88** Unit : mm

Part Number	M	L								Strength Class	D1	L1	B	L2*1	Mass (g)
		6	8	10	12	16	20	25	30						
SNSX-M3-88	M3	6	8	10	12	16	20	25		8.8	5.5	3	2.5	18(L=25)	0.71 - 1.6
SNSX-M4-88	M4	6	8	10	12	16	20	25		8.8	7	4	3	Full Thread	1.5 - 3.2
SNSX-M5-88	M5			10	12	16	20	25	30	8.8	8.5	5	4	22(L=30)	2.7 - 5.6
SNSX-M6-88	M6				12	16	20	25	30	8.8	10	6	5	Full Thread	5.1 - 8.3
SNSX-M8-88	M8					16	20	25	30	8.8	13	8	6	28(L=40)	12 - 21

\*1 If the "L" value is other than the value in parentheses, the screw is full thread.

Part Number	Qty per pack
SNSX-M3-88	1
SNSX-M4-88	1
SNSX-M5-88	1
SNSX-M6-88	1
SNSX-M8-88	1

**SNSX-109** Unit : mm

Part Number	M	L								Strength Class	D1	L1	B	L2*1	Mass (g)
		16	20	25	30	40	50	50	50						
SNSX-M6-109	M6	16	20	25	30	40	50			10.9	10	6	5	24(L≥40)	5.8 - 13
SNSX-M8-109	M8	16	20	25	30	40	50			10.9	13	8	6	28(L≥40)	12 - 25
SNSX-M10-109	M10		20	25	30	40	50			10.9	16	10	8	32(L=50)	23 - 39
SNSX-M12-109	M12				30	40	50			10.9	18	12	10	Full Thread	39 - 55

\*1 If the "L" value is other than the value in parentheses, the screw is full thread.

Part Number	Qty per pack
SNSX-M6-109	1
SNSX-M8-109	1
SNSX-M10-109	1
SNSX-M12-109	1

- High intensity socket head cap screws are made of stainless steel. (Strength Class 8.8 or 10.9)
- For applications that require both high strength and corrosion resistance.
- High strength per a screw is useful for space and weight saving by decreasing thread diameter and number.
- Screws with excellent heat resistance and corrosion resistance.
- Nonmagnetic.

## Mechanical property

Part Number · Strength Class \ Property	Tensile Strength (N / mm <sup>2</sup> )	Proof Stress (N / mm <sup>2</sup> )	Elongation after Break Minimum (mm)
A2-50 · A4-50	500	210	0.6d
A2-70 · A4-70	700	450	0.4d
<b>SNSX-88</b> 8.8	800	640	0.3d
<b>SNSX-109</b> 10.9	1,000	900	0.2d

• Values in chart are for reference only. They are not guaranteed values.

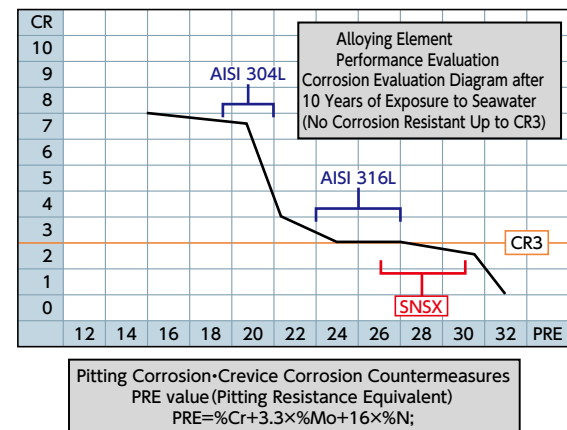
## Durability by temperature (N/mm<sup>2</sup>)

Part Number · Material	20°C	100°C	200°C	300°C	400°C	500°C	600°C
<b>SNSX-88</b> SUS316L HiMo	640	576	576	544	512	480	448
<b>SNSX-109</b> SUS316L HiMo	900	855	855	855	810	810	765
SUSXM7	450	382	360	337	315	-	-
SCM435	1,100	1,020	925	825	-	-	-

• Values in chart are for reference only. They are not guaranteed values.

Result of corrosion test by metal materials SUS316L HiMo steel used in **SNSX** is a special steel alloy with reduced carbon and increased Cr, Ni, and Mo. Reducing carbon shows an increased resistance to grain boundary corrosion cracking, and adding Cr and Mo increases resistance to pitting corrosion and crevice corrosion. In addition, adding Ni effectively reduces the risk of stress corrosion cracking.

The chart above shows the degree of corrosion after 10 years of exposure to conditions similar to seawater environment, and there was no corrosion for CR3 or lower.



## Sulfuric acid corrosion test (H<sub>2</sub>SO<sub>4</sub>, 50°C and mm / year)

Part Number · Material \ Density	3%	10%	20%
SUS304	1.08	3	-
SUS316, SUS316L	0	0.3	1.3
<b>SNSX-88</b> <b>SNSX-109</b>	0	0	0.44

• Values in chart are for reference only. They are not guaranteed values.

## Magnetic permeability comparison

Part Number · Material	Amplitude Permeability
<b>SNSX-88</b> SUS316L HiMo	1.006
<b>SNSX-109</b> SUS316L HiMo	1.007
<b>SNSL</b> SUS316L	1.015
SUSXM7	1.4

• Values in chart are for reference only. They are not guaranteed values.

## Related Products

**SNSX**, a type with a ventilation hole is available.  
 → P.562



## Part number specification

**SNSX - M3 - 25 - 88**

Product Code 1 2 3

[Individual Sales](#) → P.794
 [Cleanroom Wash & Packaging](#) → P.792
 [Screw Length Adjustment](#) → P.796
 [Vibration Resistant](#) → P.795
 [Modification process for captive use](#) → P.791