

Flat Aluminum Extrusions / Extrusion Caps

Bar Nuts / Pre-Assembly Insertion Nuts Common

Flat Aluminum Extrusions – No Shoulder Type

RoHS 10
Material: A6N01SS-T5 Aluminum Alloy
Surface Treatment: Anodize

Slot Shape
(SQN4 (M4 Nut) To be inserted) (HNTT5 (M5 Nut) To be inserted)
Part Enlarged 90°

Cross Section Shape
L ± 0.5

HFSQN4-1020 **HFSQN4-1030** **HFSQN4-1050** **HFSQN4-1070**

Part Number Type	Extrusions	L 1 mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia mm ⁴		Applicable Nut		Applicable Extrusion End Caps
					Ex	Ey	Bar Nuts	Pre-Assembly Insertion Nuts	
HFSQN4	1020	50-3000	0.31	116	0.13 x 10 ⁴	0.3 x 10 ⁴	SQN4	HNTT	4-1020
	1030		0.46	171	0.18 x 10 ⁴	1.13 x 10 ⁴	SQN4	HNTT	4-1030
	1050		0.82	304	0.31 x 10 ⁴	5.64 x 10 ⁴	SQN5	5-5	4-1050
	1070		1.18	347	0.43 x 10 ⁴	16.2 x 10 ⁴	SQN5	5-5	—

Flat Aluminum Extrusions

RoHS 10
Material: A6N01SS-T5 Aluminum Alloy
Surface Treatment: Clear Anodize

Slot Shape
(HNTT5-5 (SQN5) To be inserted) (HNTT6 to be inserted)
Enlarged View of 90°

Cross Section Shape
L ± 0.5

HFSQN4-1520 **HFSQN4-1540** **HFSQN4-1570** **HFSQN4-15100** **HFSQN4-15250**

Part Number Type	Extrusions	L 1 mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia mm ⁴		Applicable Nut			Applicable Extrusion End Caps
					Ex	Ey	Bar Nuts	Pre-Assembly Insertion Nuts	Extrusion End Caps	
HFSQN4	1520	50-3000	0.50	186	0.45 x 10 ⁴	0.44 x 10 ⁴	SQN4	HNTT	—	4-1520
	1540		0.94	347	0.83 x 10 ⁴	4.49 x 10 ⁴	SQN4	HNTT	—	4-1540
	1570		1.66	613	1.37 x 10 ⁴	24.6 x 10 ⁴	SQN5	HNTT	HNTT	4-1570
	15100		2.37	876	1.92 x 10 ⁴	72.2 x 10 ⁴	SQN5	HNTT	HNTT	—
	15250		5.62	2080	2.21 x 10 ⁴	171.4 x 10 ⁴	SQN5	HNTT	HNTT	—

Flat Aluminum Extrusions

RoHS 10
Material: A6N01SS-T5 Aluminum Alloy
Surface Treatment: Anodize

Slot Shape
(HNTT5-5 (SQN5) To be inserted) (HNTT8 to be inserted) (M5 Nut)
Part Enlarged 90°

Cross Section Shape
L ± 0.5

HFSQN4-2050 **HFSQN4-2090**

Part Number Type	Extrusions	L 1 mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia mm ⁴		Applicable Nut		
					Ex	Ey	Bar Nuts	Pre-Assembly Insertion Nuts	Extrusion End Caps
HFSQN4	2050	50-3000	1.84	681	2.78 x 10 ⁴	14.8 x 10 ⁴	SQN4	HNTT	HNTT
	2090		3.34	1234	4.78 x 10 ⁴	84.1 x 10 ⁴	SQN5	5-5	8-8

Part Number Example HFSQN4-1050 - 1000

Application Example

Extrusion End Caps

RoHS 10
Material: Polyamide (Black)

HFCQN4-1020 **HFCQN4-1030** **HFCQN4-1050** **HFCFIN5-1020** **HFCQN4-1520** **HFCQN4-1540** **HFCQN4-1570** **HFCFIN6-1530**

Extrusion end caps are not available for HFSQPURE. The shape and number of the extrusion end cap pin may be changed to prevent caps from easily falling off.

Part Number Type	Extrusions	Color	Applicable Extrusion
HFCFIN5	1020		HFSFIN5-1020
HFCFIN6	1530		HFSFIN6-1530

Part Number Example HFCQN4-1020 - B

Application Example

Flat Aluminum Extrusions

Flat Aluminum Extrusions

RoHS 10
Material: A6N01SS-T5 Aluminum Alloy
Surface Treatment: Anodize

Slot Shape
(HNTT5 (SQN5) (M5 Nut) To be inserted)
Part Enlarged 90°

HFSPURE5-8516 **HFSFIN5-1020**

Part Number Type	No.	Extrusions	L 1 mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia mm ⁴		Applicable Extrusion End Caps
						Ex	Ey	
HFSPURE	5	8516	50-3000	0.23	83	0.05 x 10 ⁴	0.24 x 10 ⁴	—
		1020		0.36	131	0.12 x 10 ⁴	0.53 x 10 ⁴	HFCFIN5-1020

Flat Aluminum Extrusions

RoHS 10
Material: A6N01SS-T5 Aluminum Alloy
Surface Treatment: Anodize

Slot Shape
(HNTT6 to be inserted)
Part Enlarged 90°

HFSPURE6-1220 **HFSFIN6-1530**

Part Number Type	No.	Extrusions	L 1 mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia mm ⁴		Applicable Extrusion End Caps
						Ex	Ey	
HFSPURE	6	1220	50-3000	0.33	121	0.17 x 10 ⁴	0.58 x 10 ⁴	—
		1530		0.82	302	0.62 x 10 ⁴	2.85 x 10 ⁴	HFCFIN6-1530

Flat Aluminum Extrusions

RoHS 10
Material: A6N01SS-T5 Aluminum Alloy
Surface Treatment: Anodize

Slot Shape
(HNTT8 to be inserted)
Part Enlarged 90°

HFSPURE8-1830

Part Number Type	Extrusions	L 1 mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia mm ⁴	
					Ex	Ey
HFSPURE8	1830	50-3000	0.98	361	1.12 x 10 ⁴	3.65 x 10 ⁴

Part Number Example HFSFIN5-1020 - 1200

Application Example

Specified hole machining is available.
Not applicable to HFSQN

The hole intervals are specified in XA, XB, XC, XD, XE order from the left end.
HFSFIN6 - 1530 - 150 - Z5 - XA20 - XB45 - XC80 - XD120

Alterations	Conterboring								
	Code	Z Selection			XA	XB	XC	XD	XE
		Z	d	d ₁					
Spec.	Z	d	d ₁	Distance from the Left End mm					
Specifications of Hole Size & Hole Position	3	3.5	6.5	7 - (L-7)					
	4	4.5	8						
	5	5.5	9.5						
	6	6.5	11						
8	9	14							

Table 1
Counterbore Hole

Z	d	d ₁
3	3.5	6.5
4	4.5	8
5	5.5	9.5
6	6.5	11
8	9	14

The counterbore depth h is from the extrusion surface.