

Flat Aluminum Extrusions / Extrusion Caps

Bar Nuts / Pre-Assembly Insertion Nuts Common

Flat Aluminum Extrusions – No Shoulder Type

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**

Part Number	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 _x	Ex _y	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	HFCQN
	1030		0.46	171	0.18 x 10 ⁴	1.13 x 10 ⁴	SQN4	HNTT	HFCQN
	1050		0.82	304	0.31 x 10 ⁴	5.64 x 10 ⁴	SQN5	5-5	HFCQN
	1070		1.18	347	0.43 x 10 ⁴	16.2 x 10 ⁴	SQN5	5-5	HFCQN

Flat Aluminum Extrusions

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

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

Cross Section Shape
 L ± 0.5

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

HFSQN4-15250

Part Number	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 _x	Ex _y	Bar Nuts	Pre-Assembly Insertion Nuts	HNTT	
HFSQN4	1520	50-3000	0.50	186	0.45 x 10 ⁴	0.44 x 10 ⁴	SQN4	HNTT	HNTT	HFCQN
	1540		0.94	347	0.83 x 10 ⁴	4.49 x 10 ⁴	SQN4	HNTT	HNTT	HFCQN
	1570		1.66	613	1.37 x 10 ⁴	24.6 x 10 ⁴	SQN5	5-5	6-6	HFCQN
	15100		2.37	876	1.92 x 10 ⁴	72.2 x 10 ⁴	SQN5	5-5	6-6	HFCQN
	15250		5.62	2080	2.21 x 10 ⁴	171.4 x 10 ⁴	SQN5	5-5	6-6	HFCQN

Flat Aluminum Extrusions

Material: A6N01SS-T5 Aluminum Alloy
Surface Treatment: Anodize

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

Cross Section Shape
 L ± 0.5

HFSQN4-2050 **HFSQN4-2090**

Part Number	Extrusions	L 1 mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia mm ⁴		Applicable Nut		
					Ex _x	Ex _y	Bar Nuts	Pre-Assembly Insertion Nuts	HNTT
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

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	Extrusions	Color	Applicable Extrusion
HFCQN4	1020	B (Black)	HFSQN4-1020
	1030		HFSQN4-1030
	1050		HFSQN4-1050
	1520		HFSQN4-1520
	1540		HFSQN4-1540
HFCFIN5	1020		HFSFIN5-1020
HFCFIN6	1530		HFSFIN6-1530

Part Number Example HFCQN4-1020 - B

Application Example

Flat Aluminum Extrusions

Flat Aluminum Extrusions

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	Extrusions	L 1 mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia mm ⁴		Applicable Extrusion End Caps
					Ex _x	Ex _y	
HFSPURE	5	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

Material: A6N01SS-T5 Aluminum Alloy
Surface Treatment: Anodize

Slot Shape
 HNTT6 To be inserted
 Part Enlarged 90°

HFSPURE6-1220 **HFSFIN6-1530**

Part Number	Extrusions	L 1 mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia mm ⁴		Applicable Extrusion End Caps
					Ex _x	Ex _y	
HFSPURE	6	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

Material: A6N01SS-T5 Aluminum Alloy
Surface Treatment: Anodize

Slot Shape
 HNTT8 To be inserted
 Part Enlarged 90°

HFSPURE8-1830

Part Number	Extrusions	L 1 mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia mm ⁴	
					Ex _x	Ex _y
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

Application Example

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	Counterboring							
	Z Selection			XA	XB	XC	XD	XE
	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.