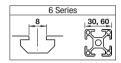
# **6 Series Aluminum Extrusions - Overview**

#### 6 Series

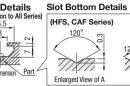
Aluminum extrusions with 8mm slot width. Available in 30mm, 50mm and 60mm in size. Applicable to M6 bolts. Slot Depth 9mm, T Slot Dimension 16.5mm, L Dimension Tolerance ±0.5mm





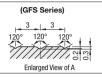


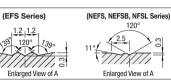












## Variations

	Sta	ndard Aluminum Extr	usions	Lightweight Alun	ninum Extrusions	High Rigidity Aluminum Extrusions
	HFS Series	EFS Series	NFS (NEFS) Series	HFSL Series	NFSL Series	GFS Series
Cross Section Photo	on The state of th					
Material	EN AC-51400-T5 Eq	uiv. EN AC-51400-T5 Equiv.	EN AW-6063-T5 Equiv.	EN AC-51400-T5 Equiv.	EN AW-6063-T5 Equiv.	A6061SS-T6 Equiv.
Features	Standard cross sect shape.	Have rigidity Equiv. to HFS Series yet lighter and more economical.	Significant price reduction has been achieved by material change. Strength(*) is the same as that of HFS and EFS Series.	Lightweight and economical extrusions. Suitable for use when light weight and economical price are given priority over strength.	Further price reduction has been achieved by changing the material of HFSL. Strength(*) is the same as that of HFSL Series.	These thick extrusions offer high rigidity and are suitable for use in high load.
Surface Treatment	Clear Anodize (HF: Black Anodize (HFS Clear Coating (CAI Baked Paint (Yellow) (Hi	B) Clear Anodize (EFS) Black Anodize (EFSB)	Clear Anodize Black Anodize	Clear Anodize Black Anodize	Clear Anodize	Clear Anodize
6 Series Representati Product	ve HFS6-3030 HFSB6-3030 CAF6-3030 HFSY6-3030	EFS6-3030 EFSB6-3030	NEFS6-3030 NFSB6-3030	HFSL6-3030 HFSLB6-3030	NFSL6-3030	GFS6-3030
Mass (Kg/m) (	**) 0.9	0.8	0.8	0.76	0.76	1.02
orogo oconoriui	<b>ℓx</b> 2.83x10 <sup>4</sup>	2.85x10 <sup>4</sup>	2.85x10 <sup>4</sup>	2.68x10 <sup>4</sup>	2.68x10 <sup>4</sup>	3.47x10 <sup>4</sup>
Moment of Inertia (**)	<b>ℓy</b> 2.83x10 <sup>4</sup>	2.85x10 <sup>4</sup>	2.85x10 <sup>4</sup>	2.68x10 <sup>4</sup>	2.68x10 <sup>4</sup>	3.47x10 <sup>4</sup>

<sup>\*</sup> Cross Sectional Moment of Inertia is equal to that of HFS, EFS and HFSL Series, however proof stress and tensile strength slightly decrease.

## 6 Series Aluminum Extrusions Lineup

Number of Slots (Vertical Axis): Four-Side Slot Type can be jointed as desired; Flat Plane Type (1 - 3 sides) provides ornamental side(s). Number of Slot Lines (Horizontal Axis): There are extrusions with one or multiple slots on one side. Ones with multiple slots are suitable where strength is required. Also available are Angled, Outer Surface R, Milled Surface, Bending and Slot Width Mixed Type.

Variations I				H	S Seri	ies			EFS Series							NFS Series							
Number (Vertica	r of Slots I Axis)	Color	1 Slot	2 Slots Rectangle	2 Slots Square	3 Rows or More	Other Shapes	Parallel Surfacing	Bending Slot Width Mixed	1 Slot	2 Slots Rectangle	2 Slots Square	3 Slots or More	Other Shapes	Parallel Surfacing	Bending Slot Width Mixed	1 Slot	2 Slots Rectangle	2 Slots Square	3 Slots or More	Other Shapes	Parallel Surfacing	Bending Slot Width Mixed
		Clear Anodize	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•	•		
F		Black Anodize	•	•	•	•				•	•		•				•	•	•				
Four- Side No Flat	Clear Coating	•	•	•																			
Slots	Plane	Yellow Paint	•																				
		Page	P.571	P.573	P.575 P.579	P.576, P.577 P.579	P.578 P.580	P.581	P.580 P.582	P.571	P.573		P.576	P.578	P.581		P.571	P.573	P.575 P.579	P.576, P.577 P.579	P.578		
		Clear Anodize	•	•	•				•	•	•						•	•	•				
		Black Anodize	•							•													
One Flat	One Flat	Clear Coating																					
	One mat	Yellow Paint																					
		Page	P.572	P.574	P.575 P.579				P.582	P.572	P.574						P.572	P.574	P.575				
		Clear Anodize	•	•	•					•	•						•	•					
Flat		Black Anodize	•							•													
Plane	Two Flats	Clear Coating																					
		Yellow Paint																					
		Page	P.572	P.574	P.575					P.572	P.574						P.572	P.574					
	Clear Anodize	•							•														
		Black Anodize																					
	3 Sides Flat	Clear Coating																					
		Yellow Paint																					
		Page	P.572							P.572													

## Accessories for 6 Series Aluminum Extrusions

MISUMI provides various types of mounting components and accessories.

<b>Product Name</b>	Brac	kets	Blind Joint	Nut	Extrusion End Caps	Slot Covers			
Product Photo		0							
Mounted Product Photo									
Material	EN AC-46100 Equiv., EN A	AC-51400-T5 Equiv., etc.	EN 1.1191 Equiv., EN 1.4308 Equiv., EN 1.4301 Equiv., etc.	EN 1.0301 Equiv., EN 1.4301 Equiv., EN 1.4401 Equiv., etc.	Polyamide	Polyethylene, etc.			
	Brackets to connect screws and nuts. Alta aluminum extrusions not required.  Cover plates can be in Side Tapped Hole Typ	erations on for mounting are mounted by using	where equipment is loaded and unloaded or doors are to be mounted. Alterations are required on	Nuts for mounting brackets and other accessories. Selectable from various types: Pre-Assembly Insertion Type, Post-Assembly Insertion Type, Thread Locking Adhesive Type, Spring-integrated Type convenient for vertical positioning.	Caps for protecting extrusion end faces.  Can be mounted without any alterations.	Protects extrusion slots from dust. Can be cut with scissors. Various colors and materials are available.			
Variations	Brackets for 1 Slot ~ 4 Surface Treatment (Black Anodize, Electrole Brackets with Cover, e	ess Nickel Plating, etc.)	-	Standard (Single Item, Bulk Packages, Stopper Sets) With Additional Functions (Temporary Holding, Thread Locking Adhesive, Holding Function) Screw Integrated, Long Nuts	Three-Sided Caps for Corners Screw Mounted	Elastomer Sponge Aluminum, etc.			
Page No.	Brackets - Ove Screws		Overview <b>P.601</b>	Overview <b>P.617</b>	P.627	P.773			

## 6 Series Applications

Standard Aluminum Extrusions for various use such as medium coverings, small equipment bases, conveyor frames, etc. Can be used as you desire with wide variety of products.

## ■Usable in combination with different slot width extrusions.

Extrusions with different slot width can be combined when integrating frames and coverings.

6 Series, 5 Series, 8 Series Slot Width Mixed Extrusions (P.580, 640) and Assembly Brackets for Different Extrusion Sizes (P.590, 600) are available. Utilize these aluminum extrusions to assemble them as you desire.

#### (Additional Info.) Number of Slots and Number of Slot Lines

Number of Slots (Vertical Axis) Number of Slot Lines (Horizontal Axis) Four-Side Slots One Flat Two Flats 3 Sides Flat 2 Slots (Rectangle) 2 Slots (Square) 3 Slots or More



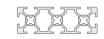












Variations HFSL Series						NFSL Series								GFS Series									
Number of Slots (Vertical Axis)		Color	1 Slot	2 Slots Rectangle	2 Slots Square	3 Slots or More	Other Shapes	Parallel Surfacing	Bending Slot Width Mixed	1 Slot	2 Slots Rectangle	2 Slots Square	3 Slots or More	Other Shapes	Parallel Surfacing	Bending Slot Width Mixed	1 Slot	2 Slots Rectangle	2 Slots Square	3 Slots or More	Other Shapes	Parallel Surfacing	Bending Slot Width Mixed
		Clear Anodize	•	•						•	•						•	•				•	
Four-	N - F1-4	Black Anodize	•	•																			
Four- Side	No Flat Plane	Clear Coating																					
Slots	i idiic	Yellow Paint																					
		Page	P.571	P.573						P.571	P.573						P.571	P.573				P.581	
		Clear Anodize			•																		
	One Flat	Black Anodize																					
		Clear Coating																					
		Yellow Paint																					
	Page				P.579																		
		Clear Anodize																					
F1-4		Black Anodize																					
Flat Plane	Two Flats	Clear Coating																					
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		Page																					
		Clear Anodize																					
		Black Anodize																					
	3 Sides Flat	Clear Coating																					
		Yellow Paint																					
		Page																					

<sup>\*\*</sup> Mass and Cross Sectional Moment of Inertia are for 30 square extrusions.