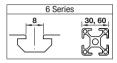
6 Series Aluminum Extrusions - Overview

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

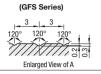




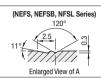












■Variations

■ variations													
		Stand	ard Aluminum Extr	usions	Lightweight Alun	High Rigidity Aluminum Extrusions							
		HFS Series	EFS Series	NFS (NEFS) Series	HFSL Series	NFSL Series	GFS Series						
Cross Section Photo					540	×							
Material		EN AC-51400-T5 Equiv.	EN AC-51400-T5 Equiv.	EN AW-6063-T5 Equiv.	EN AC-51400-T5 Equiv.	EN AW-6063-T5 Equiv.	A6061SS-T6 Equiv.						
Features	i	Standard cross section 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 Treatmen	t	Clear Anodize (HFS) Black Anodize (HFSB) Clear Coating (CAF) Baked Paint (Yellow) (HFSY)	Clear Anodize (EFS) Black Anodize (EFSB)	Clear Anodize Black Anodize	Clear Anodize Black Anodize	Clear Anodize	Clear Anodize						
6 Series Representative Product		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						
Cross Sectional	lх	2.83x10⁴	2.85x10⁴	2.85x10⁴	2.68x10 ⁴	2.68x10 ⁴	3.47x10 ⁴						
Moment of Inertia (**)	ℓу	2.83x10⁴	2.85x10⁴	2.85x10⁴	2.68x10 ⁴	2.68x10⁴	3.47x10 ⁴						

^{*} Cross Sectional Moment of Inertia is equal to that of HFS, EFS and HFSL Series, however proof stress and tensile strength slightly decrease.
** Mass and Cross Sectional Moment of Inertia are for 30 square extrusions.

Variations

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					п	S Seri	es					Er	S Seri	es					11/1	o Seri	es							
	Number of Slots (Vertical 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	Clear Coating																										
	One i lat	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.

Product Name	Brackets	Blind Joint	Nut	Extrusion End Caps	Slot Covers	
Product Photo						
Mounted Product Photo						
Material	EN AC-46100 Equiv., EN AC-51400-T5 Equ	iv., 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.	
Features	Brackets to connect extrusions with screws and nuts. Alterations on aluminum extrusions for mounting on not required. Cover plates can be mounted by us Side Tapped Hole Type Brackets.	where equipment is loaded and unloaded or doors are to be mounted.	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 Slots Surface Treatment (Black Anodize, Electroless Nickel Platin Brackets with Cover, etc.	g, 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 - Overview P.583 Screws P.751~	Overview P.601	Overview P.617	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 1 Slot

2 Slots (Rectangle) 2 Slots (Square) 3 Slots or More

















Variations					HF	SL Ser	ies					NF	SL Ser	ies						S Seri			Bending Slot Width Mixed						
Number of Slots (Vertical Axis) Color		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	•	•																									
Side	No Flat Plane	Clear Coating																											
Slots	l lune	Yellow Paint																											
		Page	P.571	P.573						P.571	P.573						P.571	P.573				P.581							
		Clear Anodize			•																								
		Black Anodize																											
	One Flat	Clear Coating																											
		Yellow Paint																											
		Page			P.579																								
		Clear Anodize																											
Flat		Black Anodize																											
Plane	Two Flats	Clear Coating																											
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		Clear Anodize																											
		Black Anodize																											
	3 Sides Flat	Clear Coating																											
		Yellow Paint																											
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