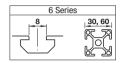
6 Series Aluminum Extrusions - Overview

6 Series

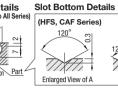
Aluminum extrusions with 8mm slot width. Available in 30mm, 50mm and 60mm in size. Applicable to M6 bolts. Slot Depth 9mm, T Slot Dimension 16.5mm, L Dimension Tolerance ±0.5mm

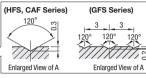




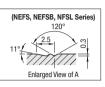












Variations

	Stand	ard Aluminum Extr	usions	Lightweight Alun	Lightweight Aluminum Extrusions					
	HFS Series	EFS Series	NFS (NEFS) Series	HFSL Series	NFSL Series	GFS Series				
Cross Section Photo					×					
Material	A6N01SS-T5	A6N01SS-T5	A6063S-T5	A6N01SS-T5	A6063S-T5	A6061SS-T6 Equivalent				
Features	Standard cross section shape.	Have rigidity equivalent 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 (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 &x	2.83x10 ⁴	2.85x10⁴	2.85x10 ⁴	2.68x10 ⁴	2.68x10⁴	3.47x10 ⁴				
Moment of Inertia (**) ℓy	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.

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.

Variatio	ns				H	S Seri	ies					EF	S Seri	es			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	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•	•		
_		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																					
	Olle Flat	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	Brac	kets	Blind Joint	Nut	Extrusion End Caps	Slot Covers		
Product Photo								
Mounted Product Photo								
Material	ADC12, A6N0	D1SS-T5, etc.	S45C, SCS13, SUS304, etc.	S10C Equivalent, SUS304, SUS316, etc.	Polyamide	Polyethylene, etc.		
	Brackets to connect screws and nuts. Alt aluminum extrusions not required. Cover plates can be Side Tapped Hole Ty	erations on s for mounting are mounted by using	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.	Can be mounted without any	Protects extrusion slots from dust. Can be cut with scissors. Various colors and materials are available.		
variations	Brackets for 1 Slot ~ Surface Treatment (Black Anodize, Electrol Brackets with Cover, 6	less Nickel Plating, etc.)	-	Standard (Single Item, Bulk Packages, Stopper Sets) With Additional Functions (Temporary Holding, Thread Locking Adhesive, Holding Function) Screw Integrated, Long Nuts	for Corners	Elastomer Sponge Aluminum, etc.		
Page No.		erview P.583 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 2 Slots (Rectangle) 2 Slots (Square) 3 Slots or More















Variatio	ns				HF	SL Ser	ies						SL Ser					GFS Series					
	Number of Slots (Vertical Axis)		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-		Black Anodize	•	•																			
Side	No Flat Plane	Clear Coating																					
Slots	riane	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																					
· iuiic		Yellow Paint																					
		Page																					
		Clear Anodize																					
		Black Anodize																					
	3 Sides Flat	Clear Coating																					
		Yellow Paint																					
		Page																					

^{**} Mass and Cross Sectional Moment of Inertia are for 30 square extrusions.