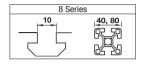
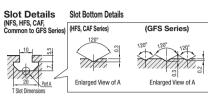
# 8 Series Aluminum Extrusions - Overview

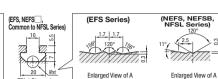
### 8 Series

Aluminum extrusions with 10mm slot width. Available in 40mm and 80mm in size. Applicable to M8 bolts. Slot Depth 12.5mm, T Slot Dimension 20mm, 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				5-0	<b>[*</b> ]			
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.	EN AW-6061 Equiv.		
Features	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.	of HFSL. Strength(*)	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		
8 Series Representative Product	HFS8-4040 HFSB8-4040 CAF8-4040 HFSY8-4040	EFS8-4040 EFSB8-4040	NEFS8-4040 NFSB8-4040	HFSL8-4040 HFSLB8-4040	NFSL8-4040	GFS8-4040		
Mass (kg/m) (**)	1.73	1.61	1.61	1.27	1.27	2.17		
Cross Sectional &x	10.4×10 <sup>4</sup>	10.5×10 <sup>4</sup>	10.5×10 <sup>4</sup>	7.54×10 <sup>4</sup>	7.54×10⁴	13.76×10 <sup>4</sup>		
Moment of Inertia (**) $\ell y$	10.4×10 <sup>4</sup>	10.5×10⁴	10.5×10 <sup>4</sup>	7.54×10 <sup>4</sup>	7.54×10 <sup>4</sup>	13.76×10 <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.

# 8 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.

Variation	าร				HF	S Seri	es					EF	S Seri	es			NFS Series						
Number (Vertical	of Slots 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	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•		
F		Black Anodize	•	•	•	•				•	•	•	•				•	•					
	No Flat	Clear Coating	•	•	•																		
	Plane	Yellow Paint	•																				
		Page	P.631	P.633	P.635	P.636	P.637	P.638	P.639 P.640	P.631	P.633	P.635	P.636	P.637			P.631	P.633	P.635	P.636	P.637	Parallel Surfacing	
		Clear Anodize	•	•	•				•	•	•	•					•	•					
c		Black Anodize	•							•													
	One Flat	Clear Coating																					
		Yellow Paint																					
		Page	P.632	P.634	P.635				P.639	P.632	P.634	P.635					P.632	P.634					
		Clear Anodize	٠	•						٠	•	•					٠						
Flat		Black Anodize	•							•													
Plane	Two Flats	Clear Coating																					
i idile		Yellow Paint																					
		Page	P.632	P.634						P.632	P.634	P.635					P.632						
		Clear Anodize	•							•													
	0.0:4	Black Anodize																					
	3 Sides Flat	Clear Coating																					
	· iut	Yellow Paint																					
		Page	P.632							P.632													

## Accessories for 8 Series Aluminum Extrusions

MISUMI provides various types of mounting components and accessories.

Product Name	Brac	kets	Blind Joint	Nut	Extrusion End Caps	Slot Cover
Product Photo						
Mounted Product Photo						
Material	EN AC-46100 Equiv., EN	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.
Features	Brackets to connect of screws and nuts. Alte extrusions for mounti Cover plates can be r Side Tapped Hole Typ	erations on aluminum ing are not required. mounted by using	Suitable for locations where equipment is loaded and unloaded or doors are to be mounted.  Alterations are required on the aluminum extrusions.	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, Electrol 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.		erview P.641 P.751~	Overview P.659	Overview <b>P.667</b>	P.677	P.773

### 8 Series Applications

Suited for locations where forces apply, such as for larger clean booths, equipment bases and structural material, 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.

8 Series, 5 Series, 6 Series Slot Width Mixed Extrusions (P640) and Assembly Brackets for Different Extrusion Sizes (P648, 658) 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)

Four-Side Slots One Flat Two Flats 3 Sides Flat

Number of Slot Lines (Horizontal Axis)

1 Slot 2 Slots (Rectangle) 2 Slots (Square)

3 Slots or More















Variations HFSL Series						NFSL Series								GFS Series									
Number (Vertical	of Slots 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-		Black Anodize	•	•																			
Four- Side	No Flat Plane	Clear Coating																					
Slots	i iunic	Yellow Paint																					
		Page	P.631	P.633						P.631	P.633						P.631	P.633				P.638	
		Clear Anodize															•						
		Black Anodize																					
	One Flat	Clear Coating																					
		Yellow Paint																					
		Page															P.632						
		Clear Anodize															•						
Flat		Black Anodize																					
Plane	Two Flats	Clear Coating																					
		Yellow Paint																					
		Page															P.632						
		Clear Anodize																					
	3 Sides	Black Anodize																					
	Flat	Clear Coating																					
		Yellow Paint																					
		Page																					

<sup>\*\*</sup> Mass and Cross Sectional Moment of Inertia are for 40 square extrusions