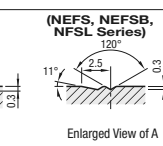
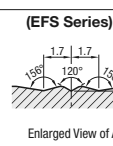
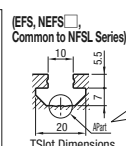
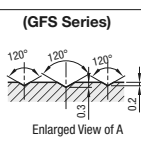
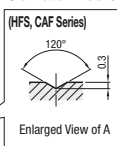
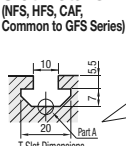
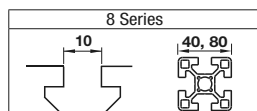
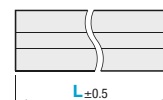








## 8 Series Aluminum Extrusions - Overview

## ■ 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  $\pm 0.5$ mm



## Variations

Variations		Standard Aluminum Extrusions			Lightweight Aluminum Extrusions		High Rigidity Aluminum Extrusions
		HFS Series	EFS Series	NFS (NEFS) Series	HFSL Series	NFSL Series	GFS Series
Cross Section Photo							
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.	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 (HFSL) 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 Moment of Inertia (**)	$I_x$	$10.4 \times 10^4$	$10.5 \times 10^4$	$10.5 \times 10^4$	$7.54 \times 10^4$	$7.54 \times 10^4$	$13.76 \times 10^4$
	$I_y$	$10.4 \times 10^4$	$10.5 \times 10^4$	$10.5 \times 10^4$	$7.54 \times 10^4$	$7.54 \times 10^4$	$13.76 \times 10^4$

\* 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 40 square extrusions.

## ■ 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).

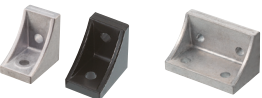



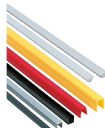

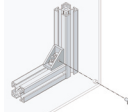

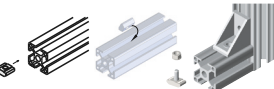
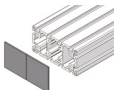

Number of Slot Lines (Horizontal Axis): There are extrusions with one or multiple slots on one side. Ones with multiple slots are suitable where strength is required.

Also available are Angled, Outer Surface R, Milled Surface, Bending and Slot Width Mixed Type.

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## Accessories for 8 Series Aluminum Extrusions

MISUMI provides various types of mounting components and accessories.

Product Name	Brackets		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	<p>Brackets to connect extrusions with screws and nuts. Alterations on aluminum extrusions for mounting are not required.</p> <p>Cover plates can be mounted by using Side Tapped Hole Type Brackets.</p>		<p>Suitable for locations where equipment is loaded and unloaded or doors are to be mounted.</p> <p>Alterations are required on the aluminum extrusions.</p>	<p>Nuts for mounting brackets and other accessories.</p> <p>Selectable from various types: Pre-Assembly Insertion Type, Post-Assembly Insertion Type, Thread Locking Adhesive Type, Spring-integrated Type convenient for vertical positioning.</p>	<p>Caps for protecting extrusion end faces.</p> <p>Can be mounted without any alterations.</p>	<p>Protects extrusion slots from dust. Can be cut with scissors.</p> <p>Various colors and materials are available.</p>
Variations	<p>Brackets for 1 Slot ~ 4 Slots Surface Treatment (Black Anodize, Electroless Nickel Plating, etc.)</p> <p>Brackets with Cover, etc.</p>		-	<p>Standard (Single Item, Bulk Packages, Stopper Sets)</p> <p>With Additional Functions (Temporary Holding, Thread Locking Adhesive, Holding Function)</p> <p>Screw Integrated, Long Nuts</p>	<p>Three-Sided Caps for Corners</p> <p>Screw Mounted</p>	<p>Elastomer</p> <p>Sponge</p> <p>Aluminum, etc.</p>
Page No.	Brackets - Overview <b>P641</b> Screws <b>P751</b> ~		Overview <b>P659</b>	Overview <b>P667</b>	<b>P677</b>	<b>P773</b>

## ■ 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.

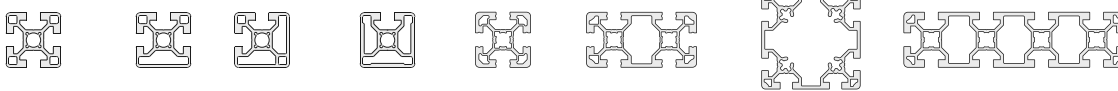
Utilize these aluminum extrusions to assemble them as you desire.

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

**Number of Slots (Vertical Axis)**

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**

[illegible]