

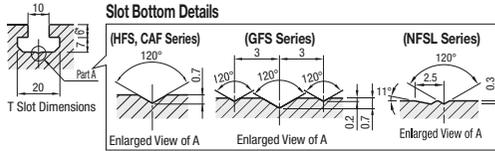
8-45 Series Aluminum Extrusions - Overview

8-45 Series

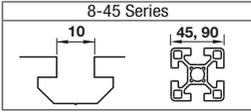
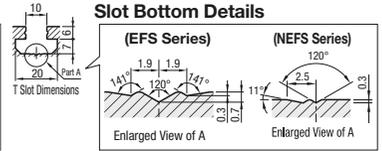
Aluminum extrusions with 10mm slot width. Available in 45mm, 50mm, 60mm, 90mm and 100mm in size. Applicable to M8 bolts. Slot Depth 13mm, T Slot Dimension 20mm, L Dimension Tolerance ± 0.5 mm



Slot Details (Common to HFS, CAF, GFS, NFSL Series)



Slot Details (Common to EFS and NEFS Series)



*5.5 for Light Type (HFSL, HFSLF, HFSLT, NFSL).

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-T6 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 HFS 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
8-45 Series Representative Product	HFS8-4545 HFSB8-4545 CAF8-4545	EFS8-4545 EFSB8-4545	NEFS8-4545 NFSB8-4545	HFSL8-4545 HFSLB8-4545	NFSL8-4545	GFS8-4545
Mass (Kg/m) (**)	2.1	1.93	1.93	1.7	1.7	3.16
Cross Sectional Moment of Inertia (**)	I_x	15.13×10^4	15.42×10^4	11.73×10^4	11.73×10^4	23.64×10^4
	I_y	15.13×10^4	15.42×10^4	15.42×10^4	11.73×10^4	23.64×10^4

* 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 45 square extrusions.

8-45 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		HFS Series								EFS Series								NFS 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			
		Four-Side Slots	No Flat Plane	Clear Anodize	•	•	•	•	•		•	•					•	•	•						
Black Anodize	•			•	•	•	•			•	•														
Clear Coating	•			•	•	•																			
Yellow Paint	•			•	•	•																			
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Flat Plane	One Flat	Clear Anodize	•																						
		Black Anodize	•																						
		Clear Coating	•																						
		Yellow Paint	•																						
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	Two Flats	Clear Anodize	•							•						•									
		Black Anodize	•																						
		Clear Coating	•																						
Yellow Paint		•																							
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3 Sides Flat	Clear Anodize	•							•																
	Black Anodize	•																							
	Clear Coating	•																							
	Page	P683							P683																

