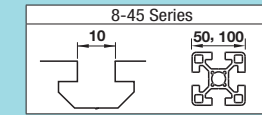
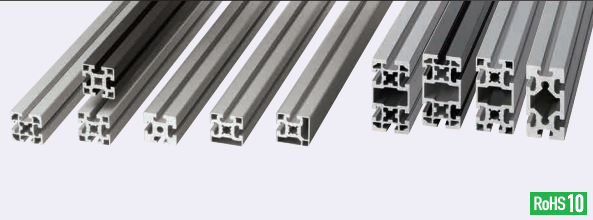


# 8-45 Series Aluminum Extrusions 50, 100mm Square



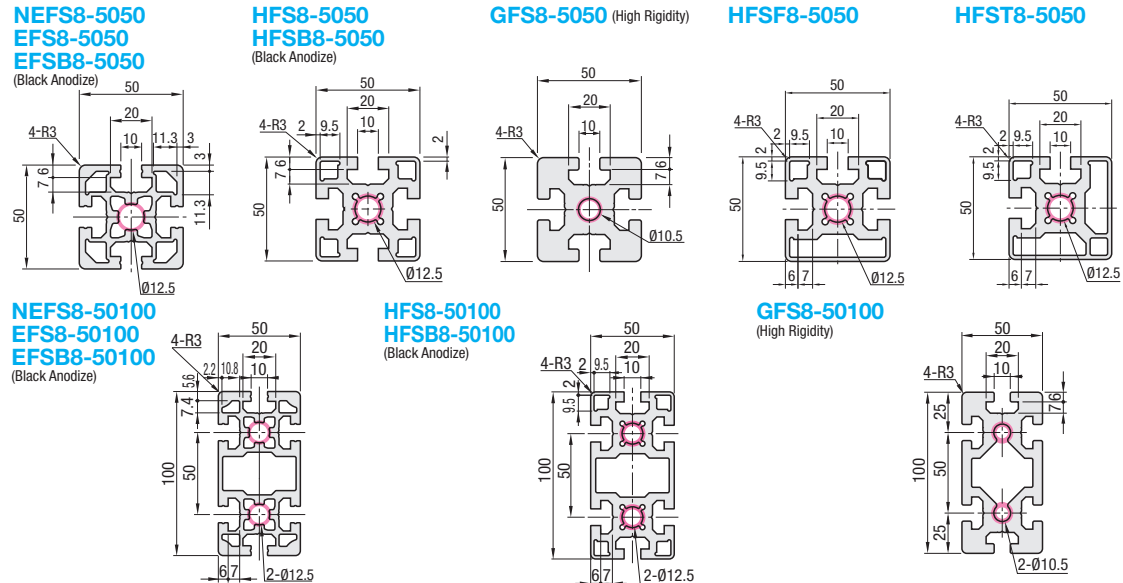
Fixing Parts			Others	
Brackets	Joints	Nut	Extrusion End Cap	Alterations
P.691 ~P.704	P.704 ~P.710	P.713 ~P.722	P.723	P.755 ~P.768

Features: Convenient for switching from Cut-and-Weld tubing methods.

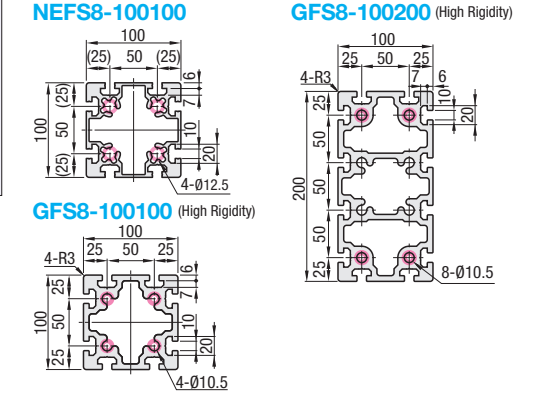
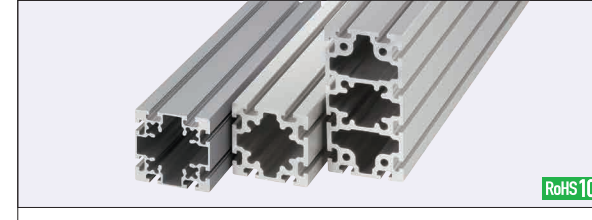


Type		Material	Surface Treatment
Configurable Length	Fixed Length		
NEFS8	KNEFS8	EN AW-6063-T5 Equiv.	Clear Anodize
GFS8	KGFS8	EN AW-6061-T6 Equiv.	
EFS8	KEFS8	EN AC-51400-T5 Equiv.	Black Anodize
HFS8	KHFS8		
HFSB8	KHFSB8		
EFSB8	KEFSB8		
HFSB8	KHFSB8		

RoHS 10  
Cut surface and altered parts are not surface treated.



Features: Extrusions shaped with [1x2 slots], [2x4 slots].



Type		Material	Surface Treatment
Configurable Length	Fixed Length		
NEFS8	KNEFS8	EN AW-6063-T5 Equiv.	Clear Anodize
GFS8	KGFS8	EN AW-6061-T6 Equiv.	

RoHS 10  
Cut surface and altered parts are not surface treated.

## Configurable Length Extrusions

Part Number	L 0.5mm Increment	Mass kg/m	Sectional Area mm <sup>2</sup>	Cross Sectional Moment of Inertia mm <sup>4</sup>		Unit Price (Less than 300mm) 1 - 9 pc(s).	Volume Discount Rate Less Than 300mm		Unit Price/m (300mm or More) 1 - 9 pc(s).	Volume Discount Rate 300mm or More	
				$I_x$	$I_y$		10-49	50-160		10-49	50-160
NEFS8	100100	7.86	2922	376.0x10 <sup>4</sup>	376.0x10 <sup>4</sup>						
NEFS8 (High Rigidity)	100200	10.68	3957	465.8x10 <sup>4</sup>	465.8x10 <sup>4</sup>						
GFS8	100200	20.45	7574	874.3x10 <sup>4</sup>	3179.53x10 <sup>4</sup>						

## Fixed Length Extrusions (Effective Length 4000mm P.526)

Part numbers beginning with the character "K" indicate Fixed Length Extrusion.

Part Number	L mm	Sectional Area mm <sup>2</sup>	Cross Sectional Moment of Inertia mm <sup>4</sup>		Unit Price 1 - 9 pc(s).	Volume Discount Rate 10-20
			$I_x$	$I_y$		
KNEFS8	100100	2922	376.0x10 <sup>4</sup>	376.0x10 <sup>4</sup>		
KGFS8 (High Rigidity)	4000 (Effective Length)	3957	465.8x10 <sup>4</sup>	465.8x10 <sup>4</sup>		
	100200	7574	874.3x10 <sup>4</sup>	3179.53x10 <sup>4</sup>		

Ordering Example: Part Number - L  
NEFS8-100100 - 800  
KNEFS8-100100 - 4000

Alterations are available for Configurable Length Extrusions. For details of alterations, see P.755.

## Configurable Length Extrusions

Part Number	L 0.5mm Increment	Mass kg/m	Sectional Area mm <sup>2</sup>	Cross Sectional Moment of Inertia mm <sup>4</sup>		Unit Price (Less than 300mm) 1 - 9 pc(s).	Volume Discount Rate Less Than 300mm		Unit Price/m (300mm or More) 1 - 9 pc(s).	Volume Discount Rate 300mm or More											
				$I_x$	$I_y$		10-49	50-160		10-49	50-160										
NEFS8	5050	2.84	1053	26.98x10 <sup>4</sup>	26.98x10 <sup>4</sup>																
EFS8																					
EFSB8 (Black Anodize)																					
HFS8																					
HFSB8 (Black Anodize)																					
GFS8 (High Rigidity)																					
HFSF8																					
HFST8																					
NEFS8												50100	5.39	1996	53.0x10 <sup>4</sup>	211.21x10 <sup>4</sup>					
EFS8																					
EFSB8 (Black Anodize)																					
HFS8																					
HFSB8 (Black Anodize)	5.96	2206	51.67x10 <sup>4</sup>	211.19x10 <sup>4</sup>																	
HFSB8 (Black Anodize)																					
GFS8 (High Rigidity)	7	2593	68.08x10 <sup>4</sup>	273.12x10 <sup>4</sup>																	

## Fixed Length Extrusions (Effective Length 4000mm P.526)

Part numbers beginning with the character "K" indicate Fixed Length Extrusion.

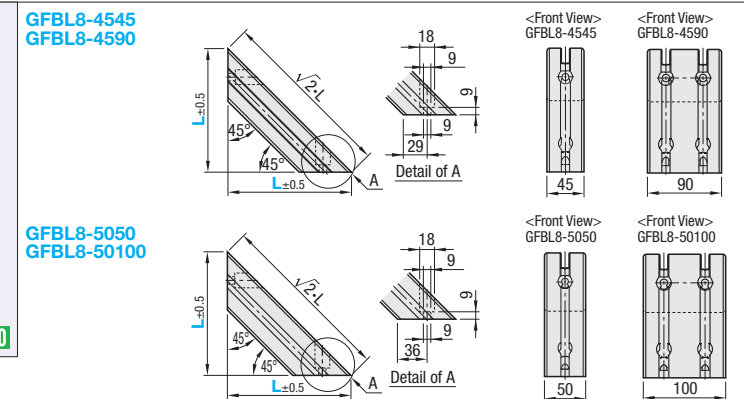
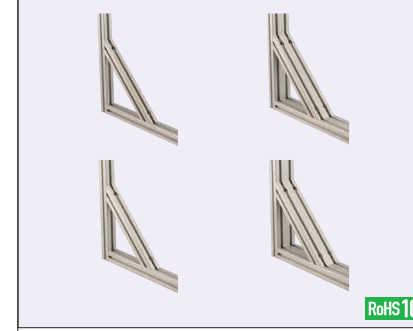
Part Number	L mm	Sectional Area mm <sup>2</sup>	Cross Sectional Moment of Inertia mm <sup>4</sup>		Unit Price 1 - 9 pc(s).	Volume Discount Rate 10-20
			$I_x$	$I_y$		
KNEFS8	5050	1053	26.98x10 <sup>4</sup>	26.98x10 <sup>4</sup>		
KEFS8						
KEFSB8 (Black Anodize)						
KHFS8						
KHFSB8 (Black Anodize)						
KGFS8 (High Rigidity)						
KHFSF8						
KHFSF8						
KHFSF8						
KHFSF8						
KNEFS8	50100	1996	53.0x10 <sup>4</sup>	211.21x10 <sup>4</sup>		
KEFS8						
KEFSB8 (Black Anodize)						
KHFS8						
KEFSB8 (Black Anodize)	2206	51.67x10 <sup>4</sup>	211.19x10 <sup>4</sup>			
KHFS8						
KEFSB8 (Black Anodize)	2593	68.08x10 <sup>4</sup>	273.12x10 <sup>4</sup>			
KGFS8 (High Rigidity)						

Ordering Example: Part Number - L  
HFS8-5050 - 800  
KHFS8-5050 - 4000

Alterations are available for Configurable Length Extrusions. For details of alterations, see P.755.

Features: Reinforcement Brackets machined from extrusions. Usable on locations needing more strength after connecting with brackets.

## Brackets for Reinforcement



Material: EN AW-6061-T6 Equiv.  
Surface Treatment: Anodize  
(No surface treatment on 45 deg. cut ends and counterbores.)

This product is for reinforcement, not for single use. Can be used with bracket connections.  
Use Screws with Captured Washer (HCBST8-24) to connect to extrusions.

Part Number	Type	No.	L 1mm Increment	Applicable Screw and Nut		L100-300		L301-500	
				Screw	Nut	Unit Price 1 - 4 pc(s).	Volume Discount Rate 5-20	Unit Price 1 - 4 pc(s).	Volume Discount Rate 5-20
GFBL8	100-500	4545	HCBST8-24	HNTT8-8	2	2			
		4590			4	4			
		5050			2	2			
		50100			4	4			

Ordering Example: Part Number - L  
GFBL8-4545 - 300

Alterations	Code	Spec.	Applicable Bracket
Applicable Screws and Nuts Set	SET SEU SEP	Applicable screws and nuts for fixing the brackets on extrusions come in a set. (Adds to the bracket price) <When SET is specified-> Screw: HCBST8-24, Nut: HNTT8-8 <When SEU is specified-> Screw: HCBST8-24, Nut: HNTU8-8 <When SEP is specified-> Screw: HCBST8-24, Nut: HNTP8-8	GFBL8-4545 GFBL8-4590 GFBL8-5050 GFBL8-50100

Alterations: Part Number - (SET, SEU, SEP)  
GFBL8-4545 - SET

Not RoHS compliant when -SET, -SEU or -SEP are specified.