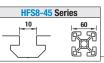
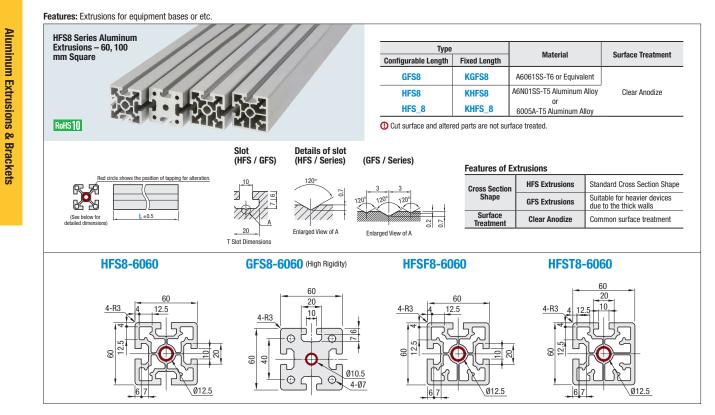
# **Aluminum Extrusions (HFS8-45 Series)**

60 mm Square



F	ixing Part	Others			
Brackets	Nuts	Joints	Extrusion End Caps	Alteratio	
P.2816- 2830	P.2831- 2838	P.2842- 2857	P.2839- 2841	P.2862- 2863	



### **Configurable Length Extrusions**

Part Number		L Mass Sectional Area mm <sup>2</sup>		Cross Sectional Moment of Inertia mm <sup>4</sup>			
		0.5 mm Increment	kg/m	Sectional Area mini-	lх	lу	
HFS8			4.17	1478	56.44 x 10 <sup>4</sup>	56.44 x 10 <sup>4</sup>	
GFS8 High Rigidity	6060	E0 4000	6.96	2577	79.86 x 10 <sup>4</sup>	79.86 x 10 <sup>4</sup>	
HFSF8	0000	50-4000	4.16	1509	58.16 x 10 <sup>4</sup>	58.16 x 10 <sup>4</sup>	
HFST8			4.14	1519	57.90 x 10⁴	57.90 x 10⁴	

### Fixed Length Extrusion (Effective Length 4,000 mm, 1,000 mm)

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

Part Number		L	Sectional Area mm <sup>2</sup>	Cross Sectional Moment of Inertia mm <sup>4</sup>			
		mm	Sectional Area mini-	ℓх	٤y		
KHFS8			1478	56.44 x 10 <sup>4</sup>	56.44 x 10 <sup>4</sup>		
KGFS8 High Rigidity	coco	4000	2577	79.86 x 10 <sup>4</sup>	79.86 x 10 <sup>4</sup>		
KHFSF8	0000	6060	0000	4000	1509	58.16 x 10 <sup>4</sup>	58.16 x 10 <sup>4</sup>
KHFST8			1519	57.90 x 10 <sup>4</sup>	57.90 x 10 <sup>4</sup>		







#### **Measure of Allowable Load**

		HFS S	Series	GFS S	Series	Difference of		
Extrusions	Height x Width (mm)	Allowab	ole Load	Allowat	le Load	Allowable Load		
	(,	(N)	(kgf)	(N)	(kgf)	from HFS Series		
60 sq. 60 sq.	60 x 60	1,743	177	2,682	273	1.54 times		

extrusion is supported at both ends.

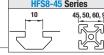
#### **Mechanical Characteristics**

(Reference Actual Measurement)

Series	HFS Series	GFS Series			
Materials (JIS Symbol)	A6N01SS-T5 Aluminum Alloy	6061-T6 Aluminum Alloy Equivalent			
Tensile Strength (N/mm²)	245 or More	265 or more (Actual Measurement 278)			
Proof Stress (N/mm²)	205 or More	245 or more (Actual Measurement 247)			
Longitudinal Elastic Modulus (N/mm²)	69,972	69,972			
Brinell Hardness (HB)	88	88			
Surface Treatment	Anodize 9 µm or More				

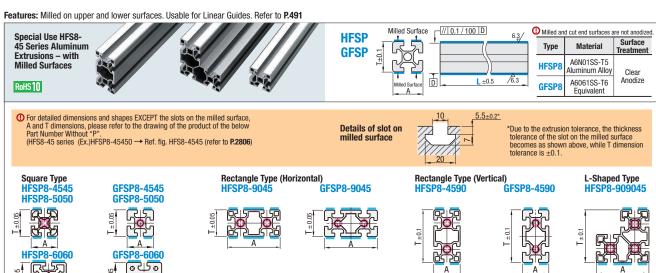
## **Special Use Aluminum Extrusions**

**HFS8-45 Series with Milled Surfaces** 



HFSP8-50100

	F	ixing Part	Others			
90	Brackets	Nuts Joints		Extrusion End Caps	Alteration	
ત્રી શ	P.2816- 2830	P.2831- 2838	P.2842- 2857	P.2839- 2841	P.2862- 2863	



GFSP8-10050

Pa	rt Number	L 0.5 mm Increment	Extrusions Series	T	Α	
	4545			44	45	
	5050			49	50	
	10050			49	100	
	50100			99	50	
HFSP8	6060		HFS8-45	59	60	
	9045			44	90	
	4590				45	
	9090			89	90	
	909045	100-3000			90	
	4545			44	45	
	5050			49	50	
	10050			49	100	
GFSP8	50100		GFS8-45 99		50	
uraro	6060		GF56-45	59	60	
	9045			44	90	
	4590			00	45	
	9090			89	90	



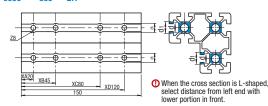
Part Number | Part Number | - | L

Alterations		Counterboring								Wrench Hole							
Code	Z Selection			XA	ХВ	XC	XD	XE	D Selection	AV	BV	CV	DV	EV			
Spec.	z	d	d₁	Distance from The Left End Plane mm					D	Dis		from Plane		Left			
Specifications	6	6.5	11		7 - (L-7)												
of Hole Size & Hole Position	8	9	14						8		7	- (L-	7)				



Part Number Example

HFSP8 - 909045 \_ 150 \_ Z8 \_ XA20 - XB45 - XC80 - XD120 HFSP8 - 4545 - 2000 - D8 - AV100 - BV120 - CV1000 - DV1880 - EV1900 800 9090





Counterboring Direction

Part Number



Nuts for Extrusion

\*1 When the cross section is rectangle (vertical), counterboring is not available for extrusions exceeding 60 mm in the longitudinal direction.



Drilling hole at a specified position can be done

Please use nuts for aluminum extrusions. For the nuts, refer to **P.2831–2836**.

① For details of tapping, refer to P.2864.

Wrench Hole Machining Direction

\*2 When the cross section is L-shaped. counterboring is only applicable to the lower section of extrusions exceeding 60 mm in length direction



then slide the frame to fixing

Put wrench in the wrench hole and tighten the holt

