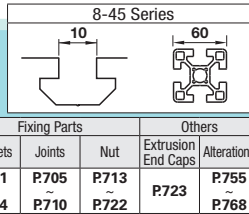


8-45 Series Aluminum Extrusions 60 mm Square



Fixing Parts			Others	
Brackets	Joints	Nut	Extrusion End Caps	Alterations
P.691	P.705	P.713	P.723	P.755
P.704	P.710	P.722		P.768

Features: Extrusions for equipment bases, etc.

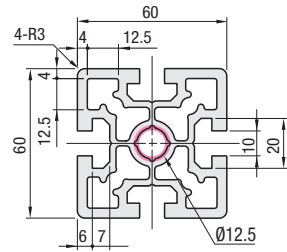


RoHS 10

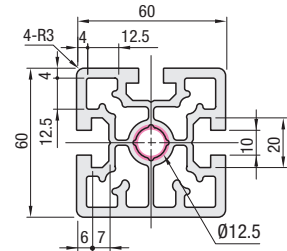
Type		Material	Surface Treatment
Configurable Length	Fixed Length		
GFS8	KGFS8	A6061SS-T6 Equivalent	Clear Anodize
NFS8	KNFS8	A6063S-T5	
HFS8	KHFS8	A6N01SS-T5	

⚠ Cut surface and altered parts are not surface treated.

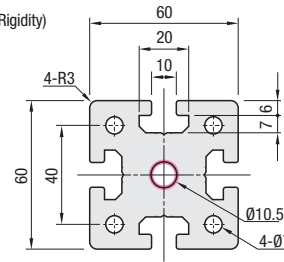
NFS8-6060 HFS8-6060



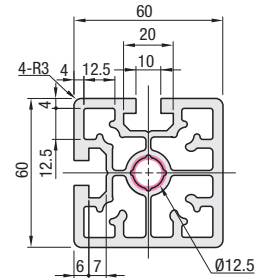
HFSF8-6060



GFS8-6060 (High Rigidity)



HFST8-6060



Configurable Length Extrusions

Part Number	L 0.5mm Increment	Mass kg/m	Sectional Area mm ²	Cross Sectional Moment of Inertia mm ⁴		Unit Price (Less than 300mm)	Volume Discount Rate Less Than 300mm			Unit Price/m (300mm or More)	Volume Discount Rate 300mm or More		
				I_x	I_y		1 - 9 pc(s)	10 - 49	50 - 160		1 - 9 pc(s)	10 - 49	50 - 160
NFS8	6060	4.17	1478	56.44x10 ⁴	56.44x10 ⁴								
HFS8													
GFS8 (High Rigidity)													
HFSF8													
HFST8													

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 ²	Cross Sectional Moment of Inertia mm ⁴		Unit Price 1 ~ 9 pc(s)	Volume Discount Rate 10-20
			I_x	I_y		
KNFS8	4000 (Effective Length)	1478	56.44x10 ⁴	56.44x10 ⁴		
KHFS8						
KGFS8 (High Rigidity)						
KHFSF8						
KHFST8						

Ordering Example: Part Number - L
HFS8-6060 - 800

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

Measure of Allowable Load

Extrusion	Height x Width (mm)	NFS, HFS Series		GFS Series		Difference of Allowable Load from HFS Series
		Allowable Load (N)	Allowable Load (kgf)	Allowable Load (N)	Allowable Load (kgf)	
60 sq. x 60 sq.	60x60	1,743	177	2,682	273	1.54 times

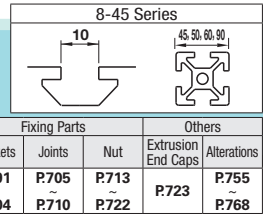
⚠ The value indicates the concentrated load of the extrusion on the center when the 1000mm long extrusion is supported at both ends.

Mechanical Characteristics (Reference Actual Measurement)

Series	NFS Series	HFS Series	GFS Series
Material (JIS Symbol)	A6063S-T5	A6N01SS-T5	A6061SS-T6 Equivalent
Tensile Strength (N/mm ²)	155 or more	245 or more	265 or more (Actual Measurement 278)
Proof Stress (N/mm ²)	110 or more	205 or more	245 or more (Actual Measurement 247)
Longitudinal Elastic Modulus (N/mm ²)	69,972	69,972	69,972
Brinell Hardness (HB)	88	88	88
Surface Treatment	Anodize 9µm or more		

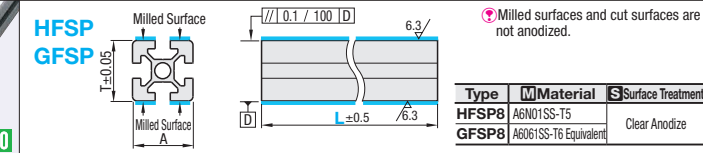
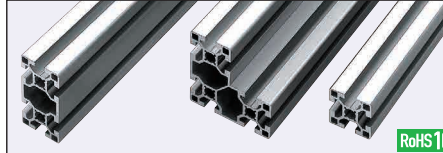
Special Use: 8-45 Series Aluminum Extrusions

Aluminum Extrusions with Parallel Surfacing

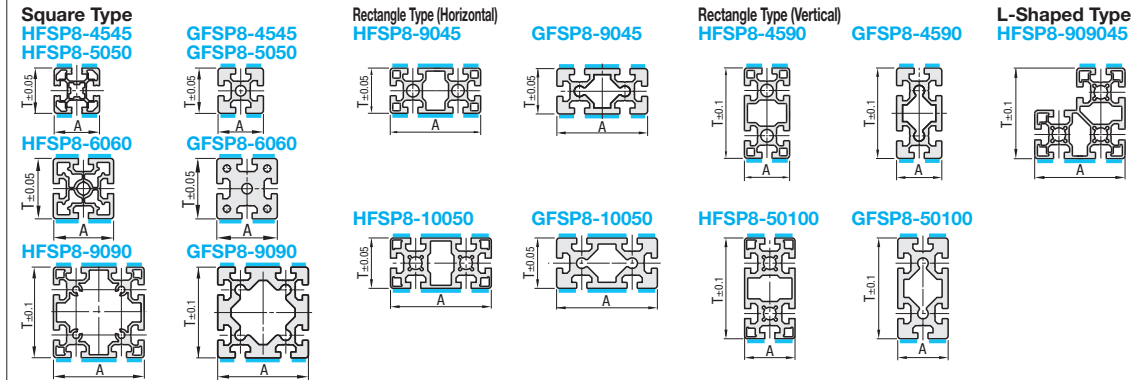
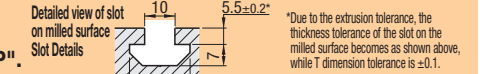


Fixing Parts			Others	
Brackets	Joints	Nut	Extrusion End Caps	Alterations
P.691	P.705	P.713	P.723	P.755
P.704	P.710	P.722		P.768

Features: Milled on upper and lower surfaces. Usable for Linear Guides on P.519-.



⚠ For detailed dimensions and shapes EXCEPT the slots on the milled surface, A and T dimensions, please refer to the drawing of the product of the below Part Number without "P".
(Ex.) HFSP8-4545 → Ref. fig. HFS8-4545 on P.681)



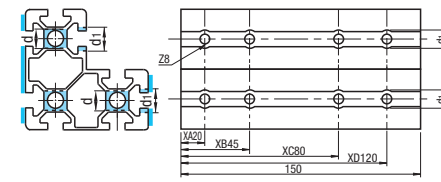
Part Number	L 0.5mm Increment	Extrusion Series	T	A	Unit Price (Less than 300mm)	Unit Price/m (300mm or More)	Alteration Charge (Main Body +)		Tapping (Refer to P.757)			
							Counterboring XA	Wrench Hole Drilling AV - EV (per Row)	Tap Shape	Left LTP	Right RTP	Both TPW
HFSP8	100-3000	HFS8-45	44	45					M12 Depth 18 (Helix coil is inserted to Ø12.5)			
			49	100								
			99	50			Z6 d6.5 d111					
			59	60								
			9045	44	90							
			4590	44	45			Z8 d9 d114				
			9090	89	90					M8 Depth 24 M12 Depth 18 (Helix coil is inserted to Ø12.5)		
GFSP8	100-3000	GFS8-45	44	45					M12 Depth 18 (Helix coil is inserted to Ø12.5)			
			49	100								
			99	50			Z6 d6.5 d111					
			59	60								
			9045	44	90			Z8 d9 d114				
			4590	44	45							
			9090	89	90					M12 Depth 36		

Ordering Example: Part Number - L
HFSP8-4545 - 300

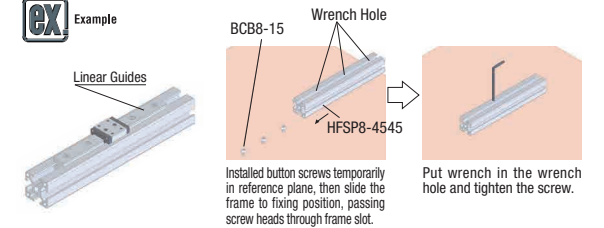
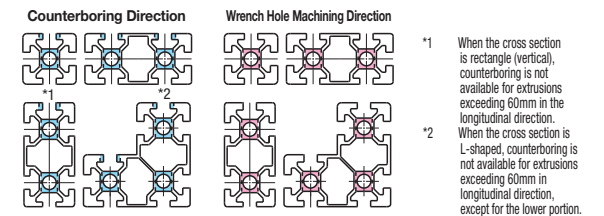
Alterations: Adds a hole at a specified position. For details of tapping, refer to P.757. Nuts for Extrusions Use nuts for aluminum extrusions on P.713-722.

Code	Counterboring					Wrench Hole								
	Z Selection	XA	XB	XC	XD	XE	D Selection	AV	BV	CV	DV	EV		
Spec.	Z	d	d1	Distance from the Left End Plane mm					D	Distance from the Left End Plane mm				
Specifications of Hole Size and Position	6	6.5	11	7-(L-7)					8	7-(L-7)				

Ordering Example: HFSP8 - 909045 - 150 - Z8 - XA20 - XB45 - XC80 - XD120
HFSP8 - 4545 - 2000 - D8 - AV100 - BV120 - CV1000 - DV1880 - EV1900
HFSP8 - 9090 - 800 - LTP



⚠ When the cross section is L-shaped, select distance from left end with lower section in the back.



⚠ Being extruded sections, products can twist. Supporting overall length of extrusion for use is recommended. See Aluminum Extrusion Tolerance Data on P.514.