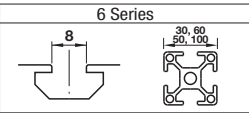


6 Series Aluminum Extrusions

Aluminum Extrusions with Parallel Surfacing / Bent Aluminum Extrusions



Fixing Parts			Others	
Brackets	Joints	Nut	Extrusion End Caps	Alterations
P583	P601	P617	P627	P755
P600	P614	P626		P768

■ Features: Milled on surfaces. Usable for Linear Guides, etc.

HFSP GFSP

Milled Surface

Milled Surface

Milled Surface

RoHS 10

0.1/100 D

L±0.5

6.3

6.3

1.6±0.2

8

16.5

7

Due to the extrusion tolerance, the thickness tolerance of the slot on the milled surface becomes as shown above, while T dimension tolerance is ±0.1.

Being extruded sections, products can twist. Supporting overall length of extrusion for use is recommended. See Aluminum Extrusion Tolerance Data on P514.

Type	Material	Surface Treatment
HFSP6	EN AC-51400-T5 Equiv.	Clear Anodize
GFSP6	EN AW-6061-T6 Equiv.	Clear Anodize

⚠ 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.) HFSP6-3030→Ref. fig. HFS6-3030 (P571))

Square Type
HFSP6-3030

HFSP6-100100

Rectangle Type (Horizontal)
HFSP6-9030

HFSP6-9060

Rectangle Type (Vertical)
HFSP6-3060

HFSP6-50100

GFSP6-3060

HFSP6-5050

HFSP6-6060

GFSP6-6030

HFSP6-10050

HFSP6-3090

HFSP6-6090

L-Shaped Type
HFSP6-606030

GFSP6-3030

EFSP6-30030

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 P757)			
							Counterboring XA ~ XE (per Row)	Wrench Hole Drilling AV ~ EV (per Row)		Tap Shape	Left LTP	Right RTP	Both TPW
HFSP6	3030	HFS6	29.2	30			Z6 d6.5 d11	-	D8 Ø8	M8 Depth 24			
	6030		29.2	60									
	3060		59.2	30									
	9030		29.2	90									
	3090		89.2	30									
	5050		49.2	50									
	10050		49.2	100									
	50100		99.2	50									
	100100		99.2	100									
	6060		59.2	60									
EFSP6	30030	EFS6	29.2	300									
	3030		29.2	30									
	6030		29.2	60									
GFSP6	3030	GFS6	29.2	30									
	6030		29.2	60									

Ordering Example: Part Number - L
HFSP6-3030 - 300

Alterations Adds a hole at a specified position.

Alterations	Counterboring					Wrench Hole				
	Code	Z	d	d1		Code	AV	BV	CV	EV
Spec.		6	6.5	11						
Specifications of Hole Size and Position		8	9	14						

Counterboring Direction

1

2

Wrench Hole Machining Direction

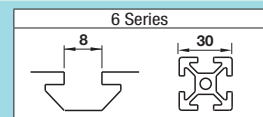
Ordering Example: HFSP6 - 606030 - 150 - Z6 - XA20 - XB45 - XC80 - XD120
HFSP6 - 3030 - 2000 - D8 - AV100 - BV120 - CV1000 - DV1880 - EV1900
HFSP6 - 3030 - 800 - LTP

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

XA20 XB45 XC80 XD120

150

*1 When the cross section is rectangle (vertical), counterboring is not available for extrusions exceeding 60mm in the longitudinal direction.
*2 When the cross section is L-shaped, counterboring is not available for extrusions exceeding 60mm in longitudinal direction, except for the lower portion.



Fixing Parts			Others	
Brackets	Joints	Nut	Extrusion End Caps	Alterations
P583	P601	P617	P627	P755
P600	P614	P626		P768

■ Features: Bending is applied to HFS6-3030.

Bent Aluminum Extrusions

RoHS 10

HFSMG6

30

16.5

8

12

7

4-R2

23.2

Ø6.8

23.2

Only this side of HFSMG6 has no slot.

R±15

R±15

90°±2°

R : Length to the Extrusion Center

A±5

B±5

30

When R=140, the frame slot may be deformed and becomes narrower in width at the spot where the frame is bent. Therefore, slot nut cannot be used. (For dedicated Bent Panels, refer to P968)

HFSFMG6

30

16.5

12

8

2

7

4-R2

23.2

Ø6.8

4-Ø4.2

Material: EN AC-51400-T5 Equiv. Surface Treatment: Clear Anodize

Part Number		A	B	R*	Series	Mass	Sectional	Cross Sectional
Type	No.	1mm Increment	1mm Increment			kg/m	Area mm²	Moment of Inertia mm⁴
HFSMG	6-3030	200~1500	200~1000	140	HFS6	0.90	333	2.83x10⁴
HFSFMG				300*				2.83x10⁴
				500*				

* Bent panels for R300 and R500 are not available.

Part Number	No.	Unit Price											
		R140				R300				R500			
HFSMG HFSFMG	6-3030	200-300	301-400	401-500	501-600	601-700	701-800	801-900	901-1000	400-500	501-600	601-700	701-800
		301-400								-	-	-	-
		401-500								-	-	-	-
		501-600								-	-	-	-
		601-700								-	-	-	-
		701-800								-	-	-	-
		801-900								-	-	-	-
		901-1000								-	-	-	-
		1001-1100								-	-	-	-
		1101-1200								-	-	-	-
		1201-1300								-	-	-	-
		1301-1400								-	-	-	-
		1401-1500								-	-	-	-

■ Features: Bent Aluminum Extrusions with a 140mm R.

90-Degree Bent Aluminum Extrusions for Corner

RoHS 10

HFSMGQ

155

155

30

22.5±5

22.5±5

90°±2

R140

Material: EN AC-51400-T5 Equiv. Surface Treatment: Anodize

Part Number	R	Slot Width	Mass kg	Sectional Area mm²	Cross Sectional Moment of Inertia mm⁴	Unit Price Qty. 1 ~ 8	Volume Discount Rate 9 ~ 120
HFSMGQ6-3030	140	8	0.8	333	2.83x10⁴	2.83x10⁴	



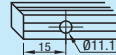

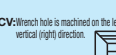
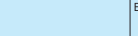
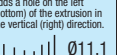
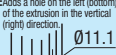
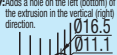
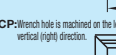
Part Number - A - B - R - (LTP, RTP, TPW-etc.)
HFSMGQ6-3030 - A400 - B500 - R140 - LTP-RCV

Blind Joint (Pre-Assembly Insertion Double Joints) Connecting Examples

LDH (LCH) RDH (RCH)

LDV (LCV) RDV (RCV)

LCP RCP

Alterations Code	Tapping (See P757)			D Type Hole (See P764)				M Type Hole (P766)				S Hole (See P765)				Wrench Hole (See P759)					
	LTP	RTP	TPW	LDH	LDV	RDH	RDV	LMH	LMV	RMH	RMV	LSH	LSV	RSH	RSV	LCH	LCV	LCP	RCH	RCV	RCP
Spec.	Tapping to the center hole. Tap Shape M12 Depth 36 LTP: Tapping on the Left End Face RTP: Tapping on the Right End Face TPW: Tapping on both ends. Ex. LTP			Adds D type hole in specified position. Can be connected with Single Joint (P609). LDH, RDH: S hole is machined on the left (bottom) of the extrusion from the horizontal direction. Ex. LDH				Adds M type hole in specified position. Can be connected with Center Joint (P605). LMH, RMH: M hole is machined on the left (bottom) of the extrusion from the horizontal direction. Ex. LMH				Adds S type hole in the specified position. Can be connected with Assembly Insert Double Joint (P611). LSH, RSH: S hole is machined on the left (bottom) of the extrusion from the horizontal direction. Ex. LSH				LCH, RCH: Wrench hole is machined on the left (bottom) of the extrusion from the horizontal direction. Ex. RCH					
																					
When the tapping and D, M, S or wrench holes are specified in combination, tap depth is the distance to D, M, S or wrench holes.																					
Applicable Extrusion																					
HFSMG6-3030 HFSFMG6-3030 HFSMGQ6-3030																					