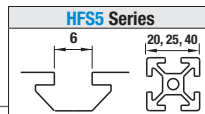


# Post-Assembly Insertion Easy Brackets

Slot Type: HFS5 Series (Aluminum Extrusions 20, 25, 40 mm Square)



**Features:** Two aluminum extrusions can be easily connected with only tightening one screw. Brackets can be mounted on the extrusion slots after assembly.

**Brackets**

RoHS10

Components	Material	Surface Treatment
(1) Joint Plates	Low Carbon Steel	Trivalent Chromate
(2) Joint Bracket	1045 Carbon Steel or Equivalent	
(3) Hex Socket Head Cap Screw	4137 Alloy Steel	

(2) Joint Brackets

(3) Hex Socket Head Cap Screw

**HABL5**

(1) Joint Plate

⚠ Overtightening may cause deformation of joint plates. (Reference Tightening Torque 5.5 N·m)

Part Number	Mass (g)	Included Screw		Allowable Load (N)
		Screw	Qty.	
<b>HABL5</b>	30	Hex Socket Head Cap Screws M5 x 8	1	250

**Connection Method**

Step	Front View	Side View	Sketch Drawing
1			
Place 2 aluminum extrusions, and adjust the frame positions.			
2			
Fit the joint bracket (2) in the slot of the aluminum extrusions.			
3			
(2) Cover the joint bracket (2) on the joint plate (1).			
4			
⚠ Overtightening may cause deformation of joint plates. (Reference Tightening Torque 5.5 N·m)			
(3) Tighten a hex socket head cap screw to fix the plate. (Reference Tightening Torque 5.5 N·m)			

**Application Example**

Holes are tapped on a bracket for cover mounting.

For aluminum extrusions with 2 slots, brackets can be mounted on both sides.

**Features:** Reversal Tabbed Brackets can use twice as many screws. Extrusions can be connected more securely.

**Reversal Tabbed Brackets**

Type	Material	Surface Treatment
<b>HBLFSSW5</b>	Aluminum Casting Alloy ADC12	—
<b>HBLFSSWB5</b>		Black Anodize

**HBLFSSW5**  
**HBLFSSWB5**  
(Black Anodize)

Part Number	Mass (g)	Applicable Bolt / T Nut			Allowable Load (N)
		Bolt	Qty.	T Nut	
<b>HBLFSSW5</b>	24	CBM5-10	4	HNTT5-5	1470
<b>HBLFSSWB5*</b> (Black Anodize)				4	

**Application Example**

Can be connected in parallel and perpendicular directions to the extrusion slot.

**Features:** Extrusions with 2-slots (HFS5-4040, etc.) can be connected with one bracket.

**Reversal Tabbed Brackets**

Type	Material
<b>HBLFSD5</b>	Aluminum Casting Alloy ADC12
<b>HBLFSDK5</b> (With Single Side Tab)	

**HBLFSD5**  
**HBLFSDK5**  
(With Single Side Tab)

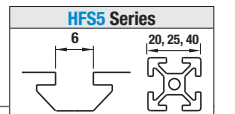
Part Number	Mass (g)	Applicable Screw / T Nut			Allowable Load (N)
		Screw	Qty.	T Nut	
<b>HBLFSD5</b>	25	CBM5-10	4	HNTT5-5	1470
<b>HBLFSDK5</b>				4	

**Application Example**

Can be connected in parallel and perpendicular directions to the extrusion slot.

# Tabbed Brackets

Slot Type: HFS5 Series (Aluminum Extrusions 20, 25, 40 mm Square)



**Features:** Tabbed Brackets with 2-slots for extrusions (HFS5-4040, etc.).

**Tabbed Brackets**

Type	Material
<b>HBLFUD5</b>	Aluminum Casting Alloy ADC12

**HBLFUD5**

Part Number	Mass (g)	Applicable Screw / T Nut				Allowable Load (N)
		Screw	Qty.	T Nut	Qty.	
<b>HBLFUD5</b>	76	CBM5-14	4	HNTT5-5	4	1470

**Application Example**

**Features:** Ribbed Brackets can use twice as many screws. Extrusions can be connected more securely.

**Reversal Tabbed Brackets**

Type	Material
<b>HBLFSDW5</b>	Aluminum Casting Alloy ADC12

**HBLFSDW5**

Part Number	Mass (g)	Applicable Bolt / T Nut				Allowable Load (N)
		Bolt	Qty.	T Nut	Qty.	
<b>HBLFSDW5</b>	47	CBM5-10	8	HNTT5-5	8	2156

**Application Example**

Can be connected in parallel and perpendicular directions to the extrusion slot.

**Part Number Example**

Part Number: **HBLFSD5**

**Part Number Alterations**

Part Number - (C / SET / SST / SEU / SSU / SEP / SSP / SEC)

**HBLFSD5** - **SET**

Alterations	Code	Spec.	Applicable Brackets
<b>Mounting Holes for Cover</b>	<b>C</b>	Adds a tap for a bracket for cover mounting. (M5 on Both Sides) (Mounting screw P.2861 HCBM)	<b>HBLFSSW5</b>
			<b>HBLFSSWB5</b>
			<b>HBLFSDW5</b>
			<b>HBLFUD5</b>

**Application Example**

**C Hole Alteration**

Example of Cover Mounting  
Specify alteration code C.

Alterations	Code	Spec.	Applicable Brackets	Available Types						
				SET	SST	SEU	SSU	SEP	SSP	SEC
<b>Applicable Screws and Nut Set</b>	<b>SET</b> (Stainless Steel) <b>SST</b> (Pre-Assy. Insertion Spring Nuts) <b>SEU</b> (Pre-Assy. Insertion Spring Nuts Stainless Steel) <b>SSU</b> (Pre-Assy. Insertion Spring Nuts) <b>SEP</b> (Post-Assy. Insertion Spring Nuts) <b>SSP</b> (Post-Assy. Insertion Spring Nuts Stainless Steel) <b>SEC</b> (Captured Washer Screws Nuts)	Supplies a set of applicable screws and nuts for fixing the bracket to an extrusion. (Ex.) When HBLFSSW5 is specified, Code   Screws   Nuts SET   CBM5-10   HNTT5-5 SST   SCB5-10   HNTTB55-5 SEU   CBM5-10   HNTU5-5 SSU   SCB5-10   SHNTU5-5 SEP   CBM5-10   HNTP5-5 SSP   SCB5-10   SHNTP5-5 SEC   HCBST5-12   HNTT5-5 ⚠ When specifying other than HBLFSSW5, check for the applicable screws and nuts.	<b>HBLFSSW5</b>	•	•	•	•	•	•	•
			<b>HBLFSSWB5</b>	•	—	•	—	•	—	—
			<b>HBLFSD5</b>	•	•	•	•	•	•	•
			<b>HBLFUD5</b>	•	•	•	•	•	•	•
			<b>HBLFSDW5</b>	•	•	•	•	•	•	•

⚠ Screws for black anodized parts are HCBMTB (Trivalent Chromate Black). P.2858  
⚠ Not RoHS compliant when -SET, -SEU or -SEP other than black anodized parts is specified.