

# Tabbed Brackets (HFS6 Series)

Slot Type: HFS6 Series (Aluminum Extrusions 30, 60 mm Square)

| HFS6 Series |             | Fixing Parts |                    |             | Others |  |
|-------------|-------------|--------------|--------------------|-------------|--------|--|
| Brackets    | Nuts        | Joints       | Extrusion End Caps | Alteration  |        |  |
| P.2735-2753 | P.2753-2763 | P.2844-2857  | P.2764-2765        | P.2862-2875 |        |  |

**Features:** Pressing nuts against the long tabs makes cumbersome hole positioning unnecessary.

**Nut-Fixing Brackets**

| Type           | Material                     | Surface Treatment |
|----------------|------------------------------|-------------------|
| <b>HBLFSR6</b> | Aluminum Casting Alloy ADC12 | —                 |

**HBLFSR6**

- Slotted holes are for various nut hole positions.
- Bracket tabs may be damaged when nuts are fallen on them.
- Use of washers are recommended. (Alteration SEC below)

| Part Number    | Mass (g) | Applicable Screw, T Nut |      |         |      | Allowable Load (N) |
|----------------|----------|-------------------------|------|---------|------|--------------------|
|                |          | Screw                   | Qty. | T Nut   | Qty. |                    |
| <b>HBLFSR6</b> | 15       | CBM6-12                 | 2    | HNTT6-6 | 2    | 1176               |

**Application Example**

The longer tabs allow the nuts to rest on them, removing the need to align the nut with the mounting hole.

⊗ Short Nuts, HNTM, HNTAM are not applicable.

**Features:** Brackets with single side tabs. Plates can be mounted on the side with no tabs.

**Brackets with Single Side Tab**

| Type            | Material                     | Surface Treatment |
|-----------------|------------------------------|-------------------|
| <b>HBLFSNK6</b> | Aluminum Casting Alloy ADC12 | —                 |
| <b>HBLFSNE6</b> |                              |                   |

**HBLFSNK6**  
**HBLFSNE6**

| Part Number     | Mass (g) | Applicable Screw, T Nut |      |         |      | Allowable Load (N) |
|-----------------|----------|-------------------------|------|---------|------|--------------------|
|                 |          | Screw                   | Qty. | T Nut   | Qty. |                    |
| <b>HBLFSNK6</b> | 15       | CBM6-12                 | 2    | HNTT6-6 | 2    | 1176               |
| <b>HBLFSNE6</b> |          |                         |      |         |      |                    |

**Application Example**

Can be mounted on a plate directly.

HBLFSNK6 Example of HBLFSNE6

**Part Number Example**

Part Number: **HBLFS6**

**Part Number Alterations**

Part Number: **HBLFS6** - (C / SET / SST / SEU / SSU / SEP / SSP / SEC)

Alteration: **SET**

| Alterations              | Code                               | Spec.  | Applicable Brackets | Available Types                   |  |           |     |     |     |     |   |   |
|--------------------------|------------------------------------|--|---------------------|-----------------------------------|--|-----------|-----|-----|-----|-----|---|---|
|                          |                                    |  |                     | SET                               | SST  | SEU       | SSU | SEP | SSP | SEC |   |   |
| Mounting Holes for Cover | C                                  | Adds a tap for a bracket for cover mounting. (M5 on Both Sides) (Mounting screw P.2861 HCBM) | HBLFSN6             | •                                 | •  | •         | •   | •   | •   | •   |   |   |
|                          |                                    |  | HBLFSN6-5           | •                                 | •  | •         | •   | •   | •   | •   |   |   |
|                          |                                    |  | HBLFSNB6            | •                                 | •  | •         | •   | •   | •   | •   |   |   |
|                          |                                    |  | HBLFSNM6            | •                                 | •  | •         | •   | •   | •   | •   |   |   |
|                          |                                    |  | CHBLFSN6            | •                                 | •  | •         | •   | •   | •   | •   |   |   |
|                          |                                    |  | HBLFS6              | •                                 | •  | •         | •   | •   | •   | •   |   |   |
|                          |                                    |  | HBLFSB6             | •                                 | •  | •         | •   | •   | •   | •   |   |   |
|                          |                                    |  | HBLFSL6             | •                                 | •  | •         | •   | •   | •   | •   |   |   |
|                          |                                    |  | HBLFSR6             | •                                 | •  | •         | •   | •   | •   | •   |   |   |
|                          |                                    |  | HBLFSNK6            | •                                 | •  | •         | •   | •   | •   | •   |   |   |
|                          |                                    |  | HBLFSNE6            | •                                 | •  | •         | •   | •   | •   | •   |   |   |
|                          |                                    |  | SET                 | Stainless Steel                   | Supplies a set of applicable screws and nuts for fixing the bracket to an extrusion. (Adds to the bracket price) (Ex.) When HBLFS6 is specified, | HBLFSN6   | •   | •   | •   | •   | • | • |
|                          |                                    |  | SST                 | (Pre-Assy. Insertion Spring Nuts) |  | HBLFSN6-5 | •   | •   | •   | •   | • | • |
|                          |                                    |  | SEU                 | (Pre-Assy. Insertion Spring Nuts) |  | HBLFSNB6  | •   | •   | •   | •   | • | • |
| SSU                      | (Pre-Assy. Insertion Spring Nuts)  |  | HBLFSNM6            | •                                 | •  | •         | •   | •   | •   |     |   |   |
| SEP                      | (Post-Assy. Insertion Spring Nuts) |  | CHBLFSN6            | •                                 | •  | •         | •   | •   | •   |     |   |   |
| SSP                      | (Post-Assy. Insertion Spring Nuts) |  | HBLFS6              | •                                 | •  | •         | •   | •   | •   |     |   |   |
| SEC                      | (Captured Washer Screws)           |  | HBLFSB6             | •                                 | •  | •         | •   | •   | •   |     |   |   |
|                          |                                    |  | HBLFSL6             | •                                 | •  | •         | •   | •   | •   |     |   |   |
|                          |                                    |  | HBLFSR6             | •                                 | •  | •         | •   | •   | •   |     |   |   |
|                          |                                    |  | HBLFSNK6            | •                                 | •  | •         | •   | •   | •   |     |   |   |
|                          |                                    |  | HBLFSNE6            | •                                 | •  | •         | •   | •   | •   |     |   |   |

**Example of Cover Mounting**

Specify alteration code C.

⊗ Screws for black anodized parts are HCBMTB (Trivalent Chromate Black) on P.2858

⊗ Not RoHS compliant when -SET, -SEU OR -SEP other than black anodized parts is specified.

# Post-Assembly Insertion Easy Brackets / Tabbed Brackets

Slot Type: HFS6 Series (Aluminum Extrusions 30, 50, 60 mm Square)

| HFS6 Series |            |
|-------------|------------|
| 8           | 30, 50, 60 |

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

**Brackets**

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

**HABL6**

(1) Joint Plate

(2) Joint Brackets

(3) Hex Socket Head Cap Screw

**Application Example**

Over-tightening may cause deformation of joint plates. (Reference Tightening Torque 10.5 N.m)

| Part Number  | Mass (g) | Changes Included Screw and Nut     |      | Allowable Load (N) |
|--------------|----------|------------------------------------|------|--------------------|
|              |          | Screw                              | Qty. |                    |
| <b>HABL6</b> | 90       | Hex Socket Head Cap Screws M6 x 12 | 1    | 600                |

Holes are tapped on a bracket for cover mounting.

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

| Step | Connection Method |           |  |
|------|-------------------|-----------|--|
|      | Front View        | Side View | Sketch Drawing   |
| 1    |                   |           | Place two Aluminum extrusions, and adjust the frame positions.                               |
| 2    |                   |           | Fit the joint bracket (2) in the slot of the aluminum extrusions.                            |
| 3    |                   |           | Cover the joint bracket (2) on the joint plate (1).  |
| 4    |                   |           | Tighten a hex socket head cap screw to fix the plate. (Reference Tightening Torque 10.5 N.m) |

**Features:** Tabbed Brackets with Slotted Hole on one side. Hex Socket Head Cap Screws with Captured Washers can be used for mounting without interference between screw heads.

**Brackets with Slotted Hole on One Side**

| Type           | Material                     | Surface Treatment |
|----------------|------------------------------|-------------------|
| <b>HBLFSH6</b> | Aluminum Casting Alloy ADC12 | —                 |

**HBLFSH6**

| Part Number    | Mass (g) | Applicable Screw, T Nut |      |         |      | Allowable Load (N) |
|----------------|----------|-------------------------|------|---------|------|--------------------|
|                |          | Screw                   | Qty. | T Nut   | Qty. |                    |
| <b>HBLFSH6</b> | 12       | CBM6-12                 | 2    | HNTT6-6 | 2    | 1176               |

**Part Number Example**

Part Number: **HBLFSH6**, **HBLFSSW6**, **HBLFSNT6**

**Application Example**

⊗ Washer Integrated Hex Socket Head Cap Screws can be used for mounting without interference between screw heads.