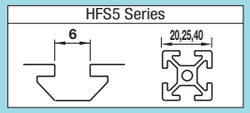
Add. Spec. Printed in Red

# Extruded Brackets -for 1-slot-

## -Slot Type: HFS5 Series (Aluminum Frames 20, 25, 40 Square)-

HFS5 Series




Price Reduction 27%
:Reduced Price

CAD Data Folder Name: 40_Aluminum_Frames

**Features:** Extruded Brackets with tabs to fit extrusions. Since the tabs stop rotating the brackets when tightening, improves work efficiency.

### Thick Brackets (With Tab Type)

HBK _ _ series have tabs on the contact surfaces with extrusions.

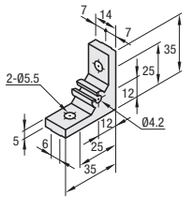
RoHS

| Type | Material | Surface Treatment |
|---|---|---|
| HBKTST5 | A6N01SS-T5 | Anodize |
| HBKTS5 | | |
| HBKTSB5 | | Black Anodize |

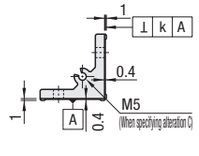
**HBKTST5** (Perpendicularly Machined)

**HBKTS5**
**HBKTSB5** (Black Anodize)

| Part Number | Perpendicularity K |
|---|---|
| HBKTST5 | 0.03 |
| HBKTS5 | 0.06 |
| HBKTSB5* (Black Anodize) | |




Tabs for the aluminum extrusion slots are located on the bottom of brackets.




| Part Number | Mass (g) | Applicable Screw / T Nut: Screw | Qty. | T Nut | Qty. | Allowable Load (N) | Unit Price 1~99 pcs. | Volume Discount Rate 100~ |
|---|---|---|---|---|---|---|---|---|
| HBKTST5 | 15 | CBM5-10 | 2 | HNTT5-5 | 2 | 833 | 40 | 38 |
| HBKTS5 | | | | | | | 38 | 37 |
| HBKTSB5* (Black Anodize) | | | | | | | 60 | 57 |

* For repairing black anodizing, refer to **P.748**

**Features:** Aluminum Extruded Brackets. Excels in appearance.

### Thick Brackets

**STOCK ITEM**

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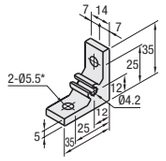
RoHS

| Type | Material | Surface Treatment |
|---|---|---|
| HBLTS5 (-4) | A6N01SS-T5 | Anodize |
| HBLTSB5 | | Black Anodize |
| CHBLTS5 | | Clear Coating (Anodize + Clear Coating) |

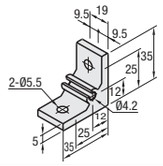
**HBLTS5**
**HBLTS5-4** (For M4 Bolt)
**HBLTSB5** (Black Anodize)
**CHBLTS5** (Clear Coating)

*HBLTS5-4 is Ø4.5.




25 Square

**HBLTV5**
**HBLTVB5** (Black Anodize)

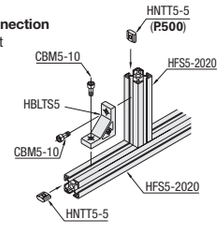



| Part Number | Mass (g) | Applicable Screw / T Nut: Screw | Qty. | T Nut | Qty. | Allowable Load (N) | Unit Price 1~99 pcs. | Volume Discount Rate 100~ |
|---|---|---|---|---|---|---|---|---|
| HBLTS5 | 15 | CBM5-10 | 2 | HNTT5-5 | 2 | 833 | 93 | 89 |
| HBLTS5-4 (For M4 Bolt) | | CBM4-10 | | HNTT5-4 | | | | |
| HBLTSB5* (Black Anodize) | | CBM5-10 | | HNTT5-5 | | | 157 | 150 |
| CHBLTS5 (Clear Coating) | | | | | | | 150 | 142 |
| HBLTV5 | 20 | | | | | | 135 | 130 |
| HBLTVB5* (Black Anodize) | | | | | | | 220 | 210 |

* For repairing black anodizing, refer to **P.748**

Example

**Example of Frame Connection**
Connection with Thick Bracket




**Features:** Numbers of screws are the same as HBKTS8. Extrusions can be connected more securely.

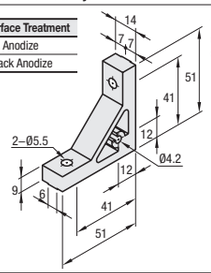
RoHS

HBK _ _ series have tabs on the contact surfaces with extrusions.

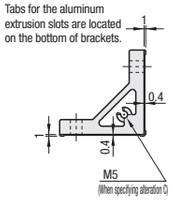
| Type | Material | Surface Treatment |
|---|---|---|
| HBKUS5 | A6N01SS-T5 | Anodize |
| HBKUSB5 | | Black Anodize |

Ultra Thick Brackets (With Tab)

**HBKUS5**
**HBKUSB5** (Black Anodize)




Tabs for the aluminum extrusion slots are located on the bottom of brackets.




| Part Number | Mass (g) | Applicable Screw / T Nut: Screw | Qty. | T Nut | Qty. | Allowable Load (N) | Unit Price 1~99 pcs. | Volume Discount Rate 100~ |
|---|---|---|---|---|---|---|---|---|
| HBKUS5 | 31 | CBM5-14 | 2 | HNTT5-5 | 2 | 833 | 52 | 49 |
| HBKUSB5* (Black Anodize) | | | | | | | 80 | 76 |

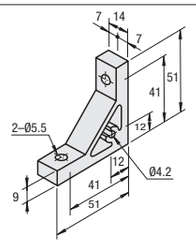
**Features:** Numbers of screws are the same as HBLTS8-45. Extrusions can be connected more securely.

RoHS

| Type | Material | Surface Treatment |
|---|---|---|
| HBLUS5 | A6N01SS-T5 | Anodize |

Ultra Thick Brackets

**HBLUS5**




| Part Number | Mass (g) | Applicable Screw / T Nut: Screw | Qty. | T Nut | Qty. | Allowable Load (N) | Unit Price 1~99 pcs. | Volume Discount Rate 100~ |
|---|---|---|---|---|---|---|---|---|
| HBLUS5 | 31 | CBM5-14 | 2 | HNTT5-5 | 2 | 833 | 41 | 39 |

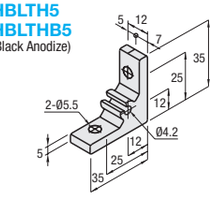
**Features:** Hole positions are eccentric. Can be combined with plates of 5mm and 3mm thickness when using taps for mounting covers.

### Eccentric Brackets

RoHS

| Type | Material | Surface Treatment |
|---|---|---|
| HBLTH5 | A6N01SS-T5 | Anodize |
| HBLTHB5 | | Black Anodize |

**HBLTH5**
**HBLTHB5** (Black Anodize)

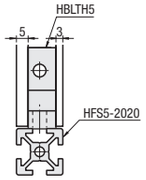



| Part Number | Mass (g) | Applicable Screw / T Nut: Screw | Qty. | T Nut | Qty. | Allowable Load (N) | Unit Price 1~99 pcs. | Volume Discount Rate 100~ |
|---|---|---|---|---|---|---|---|---|
| HBLTH5 | 15 | CBM5-10 | 2 | HNTT5-5 | 2 | 833 | 32 | 31 |
| HBLTHB5* (Black Anodize) | | | | | | | 54 | 51 |

* For repairing black anodizing, refer to **P.748**

Example

HBLTH5 and HBLTHB5 are eccentric. Can be combined with both cover plates of 5mm and 3mm thickness.




**Features:** Extruded Brackets with twice as many screws. Extrusions can be connected more securely.

### Thick Brackets

**STOCK ITEM**

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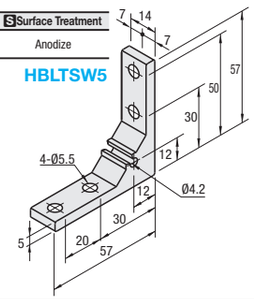
RoHS

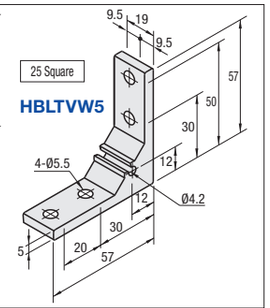
| Type | Material | Surface Treatment |
|---|---|---|
| HBLTSW5 | A6N01SS-T5 | Anodize |
| HBLTVW5 | | |

**HBLTSW5**




25 Square

**HBLTVW5**




| Part Number | Mass (g) | Applicable Screw / T Nut: Screw | Qty. | T Nut | Qty. | Allowable Load (N) | Unit Price 1~99 pcs. | Volume Discount Rate 100~ |
|---|---|---|---|---|---|---|---|---|
| HBLTSW5 | 26 | CBM5-10 | 4 | HNTT5-5 | 4 | 1176 | 76 | 72 |
| HBLTVW5 | 36 | | | | | | 74 | 70 |

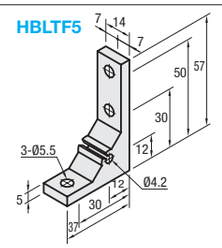
**Features:** Extruded Brackets Unequal Sides. Effective when strength is required in the narrow clearances between extrusions.

### Scalene Brackets

RoHS

| Type | Material | Surface Treatment |
|---|---|---|
| HBLTF5 | A6N01SS-T5 | Anodize |

**HBLTF5**




| Part Number | Mass (g) | Applicable Screw / T Nut: Screw | Qty. | T Nut | Qty. | Allowable Load (N) | Unit Price 1~99 pcs. | Volume Discount Rate 100~ |
|---|---|---|---|---|---|---|---|---|
| HBLTF5 | 21 | CBM5-10 | 3 | HNTT5-5 | 3 | 1004 | 79 | 74 |

**Order Example**

**Part Number**
**HBLTSW5**

**Delivery** 1 Day 5 Days P.87

**Alterations** Part Number - (C / SET / SST / SEU / SSU / SEP / SSP / SEC)
HBLTF5 - SET

| Alterations | Code | Spec. | Applicable Brackets | Price Adder |
|---|---|---|---|---|
| Mounting Holes for Cover | C | Adds taps on a bracket for cover mounting. (M5 on Both Sides) (Mounting screw P.644 HCBM) | HBLTS5 | 14 |
| | | | HBLTS5-4 | |
| | | | CHBLTS5 | 23 |
| | | | HBLTV5 | 19 |
| | | | HBLTVB5 | |
| | | | HBLUS5 | 14 |
| | | | HBKTS5 | |
| | | | HBKUS5 | |
| | | | HBLUS5 | |
| | | | HBLTH5 | |
| | | | HBLTHB5 | |
| | | | HBLTSW5 | |
| | | | HBLTVW5 | 19 |
| | | | HBLTF5 | 14 |

| Alterations | Code | Spec. |
|---|---|---|
| Applicable Screws and Nuts come as a set. | SET, SST (Stainless Steel), SEU (Pre-assy. Insertion Spring Nuts), SSU (Pre-Assy. Insertion Spring Nuts Stainless Steel), SEP (Post-Assy. Insertion Spring Nuts), SSP (Pre-Assy. Insertion Spring Nuts Stainless Steel), SEC (Captured Washer Screws Nuts) | Supplies a set of applicable screws and nuts for fixing the bracket to a extrusion. (Adds to the bracket price) (Ex.) When HBLTS5 is specified, |

| Code | Screws | Nuts |
|---|---|---|
| SET | CBM5-10 | HNTT5-5 |
| SST | SCB5-10 | HNTTBS5-5 |
| 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 HBLTS5, check for the applicable screws and nuts.

| Applicable Brackets | SET | SST | SEU | SSU | SEP | SSP | SEC |
|---|---|---|---|---|---|---|---|
| HBLTS5 | 38 | 28 | 49 | 75 | 49 | 57 | 57 |
| HBLTS5-4 | | | | | | | |
| HBLTSB5 | 40 | - | 51 | - | 51 | - | |
| CHBLTS5 | 38 | 28 | 49 | 75 | 49 | 57 | 57 |
| HBLTV5 | | | | | | | |
| HBLTVB5 | 40 | - | 51 | - | 51 | - | |
| HBKTST5 | 38 | 28 | 49 | 75 | 49 | 57 | 57 |
| HBKTS5 | | | | | | | |
| HBKTSB5 | 40 | - | 51 | - | 51 | - | |
| HBLUS5 | 39 | 28 | 50 | 75 | 50 | 57 | 59 |
| HBKUS5 | | | | | | | |
| HBKUSB5 | 41 | - | 52 | - | 52 | - | |
| HBLTH5 | 38 | 28 | 49 | 75 | 49 | 57 | 57 |
| HBLTHB5 | 40 | - | 51 | - | 51 | - | |
| HBLTSW5 | 75 | 55 | 97 | 150 | 97 | 113 | - |
| HBLTVW5 | | | | | | | |
| HBLTF5 | 56 | 41 | 74 | 112 | 74 | 85 | 85 |

Screws for black anodized parts are HCBMTB (Trivalent Chromate Black). **P.641**
When -SET, -SEU or -SEP is specified, it is not RoHS compliant.