

# Blind Joint Components

Tapping Joints / TJ Plates / Torx Bits

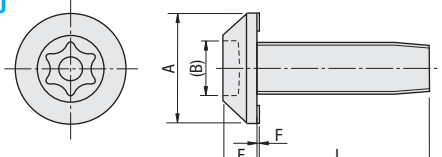
Alterations necessary to use this component

Wrench Hole  
P683

■Feature: Necessary alteration is only for wrench holes. Most economical Blind Joints. Dedicated Torx Bit is required for tightening.

**Tapping Joints**  
  
RoHS 10

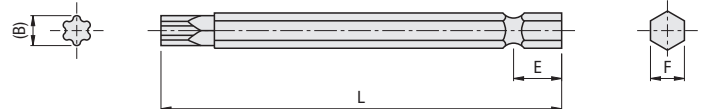
(Reference)Corner section when using this joint  


**HTJ**  
  
Material: SWCH-18A (Carburized)  
Surface Treatment: Trivalent Chromate  
\*SWCH-18A (Cold Forged Carbon Steel Wire)  
Tapping on the extrusion is not necessary.

| Part Number |     | Torx Bit | Applicable Extrusion (Pilot Hole Dia.) | Proper Tightening Torque (Max.) | A  | (B)  | E    | F    | L  |
|-------------|-----|----------|----------------------------------------|---------------------------------|----|------|------|------|----|
| Type        | No. |          |                                        |                                 |    |      |      |      |    |
| HTJ         | 5   | HTJXL25  | Ø4.2                                   | 12N·m                           | 11 | 3.84 | 2.25 | 0.25 | 20 |
|             | 6   | HTJXL40  | Ø6.8                                   | 24N·m                           | 15 | 6.6  | 5    | 0.5  | 25 |
|             | 8   |          | Ø10.5                                  | 74N·m                           | 17 |      | 5.5  |      | 30 |

| Tapping Joints | Applicable Extrusion No.    |                             |                               |         | [Exception] Extrusion Not Available                                      |
|----------------|-----------------------------|-----------------------------|-------------------------------|---------|--------------------------------------------------------------------------|
| HTJ5           | 5-2020*<br>5-4040           | 5-2040                      | 5-2060                        | 5-2080  | *Curved HFSR5-2020 is not applicable since wrench holes cannot be added. |
| HTJ6           | 6-3030*<br>6-5050<br>6-6060 | 6-3060<br>6-50100<br>6-6090 | 6-3090<br>6-100100<br>6-60120 | 6-30120 | *Curved HFSR6-3030 is not applicable since wrench holes cannot be added. |
| HTJ8           | 8-4040*                     | 8-4080                      | 8-40120                       | 8-40160 | *Curved HFSR8-4040 is not applicable since wrench holes cannot be added. |

**Torx Bit**  
  
RoHS 10

**HTJXL**  
  
Material: SNCM447

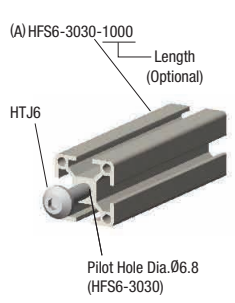
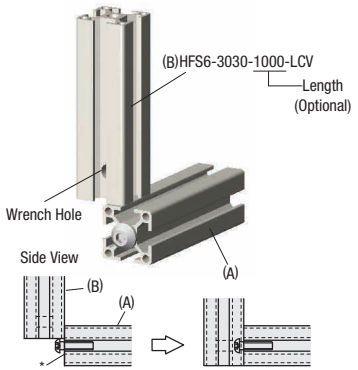
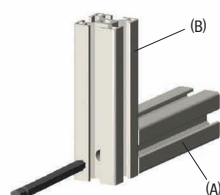
| Part Number |     | Applicable Drive for Torx Bit | (B)  | L  | E | F    |
|-------------|-----|-------------------------------|------|----|---|------|
| Type        | No. |                               |      |    |   |      |
| HTJXL       | 25  | T25                           | 3.84 | 75 | 9 | 6.35 |
|             | 40  | T40                           | 6.6  |    |   |      |

 Ordering Example

Part Number  
HTJ6  
HTJXL40

 Example

How to Connect Tapping Joints (Tapped holes are not required for extrusion connection.)

| Step           | 1                                                                                                                      | 2                                                                                                                                                                                     | 3                                                                                     |
|----------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Description    | Tighten temporarily the tapping joint on extrusion end face. (Refer to appropriate tightening torque above.)           | Pass the head of tapping joint through the slot of Extrusion (B), and slide it down to the bottom of (A). TJ plate goes through the slot of extrusion (B) too.                        | Pass the Torx Bit through wrench hole, and tighten it by a motorized screw driver.    |
| Tapping Joints | <br>*Tapped holes are not required. | <br>*Part below neck of HTJ8 is thinned so as to be engaged with slot width of 10mm (HFS8 Series). |  |

# Blind Joint Components

Screw Joints

Alterations necessary to use this component

Tapping  
P681

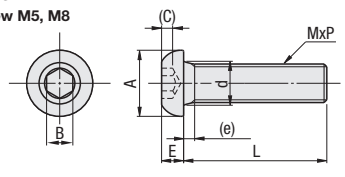
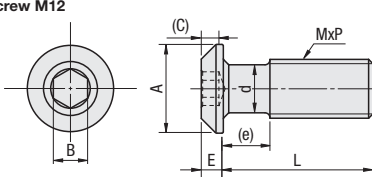
Wrench Hole  
P683

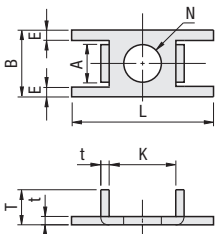
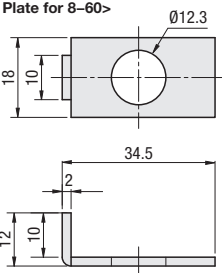
■Feature: Including Rotation Stoppers, available from JPY140. Cost saving blind joints.

**Screw Joints**  
  
RoHS 10

(Reference)Corner section when using this joint  


**HCJ**  
(Trivalent Chromate)  
**SHCJ**  
(Stainless Steel)

**(A) Screw**  
Screw M5, M8  
  
Screw M12  


**(B) Joint Plate**  
  
<Joint Plate for 8-60>  


| Type | Components  | Material          | Surface Treatment  |
|------|-------------|-------------------|--------------------|
| HCJ  | Screw       | SCM435            | Trivalent Chromate |
|      | Joint Plate | SPCC              |                    |
| SHCJ | Screw       | SUS304 Equivalent |                    |
|      | Joint Plate | SUS304            |                    |

| Part Number                                              |      | Components |                 |
|----------------------------------------------------------|------|------------|-----------------|
| Type                                                     | No.  | (A) Screw  | (B) Joint Plate |
| HCJ<br>(Trivalent Chromate)<br>SHCJ<br>(Stainless Steel) | 5    | M5         | 5               |
|                                                          | 6    | M8         | 6               |
|                                                          | 8    |            | 8               |
|                                                          | 8-45 |            | 8-45            |
|                                                          | 8-60 |            | For 8-60        |

| Screw Joints       | Applicable Extrusion No.    |                             |                               |         | [Exception] Extrusion Not Available                                                                                                                                                                     |
|--------------------|-----------------------------|-----------------------------|-------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HCJ5               | 5-2020*<br>5-4040           | 5-2040                      | 5-2060                        | 5-2080  | *Curved HFSR5-2020 is not applicable since wrench holes cannot be added.                                                                                                                                |
| HCJ6<br>SHCJ6      | 6-3030*<br>6-5050<br>6-6060 | 6-3060<br>6-50100<br>6-6090 | 6-3090<br>6-100100<br>6-60120 | 6-30120 | *Curved HFSR6-3030 is not applicable since wrench holes cannot be added.                                                                                                                                |
| HCJ8               | 8-4040*                     | 8-4080                      | 8-40120                       | 8-40160 | *Curved HFSR8-4040 is not applicable since wrench holes cannot be added.                                                                                                                                |
| HCJ8-45<br>HCJ8-60 | 8-4545*<br>8-6060           | 8-4590*<br>8-6060           | 8-45180                       |         | *Not applicable to HFSL (light type).<br>*Curved HFSR8-4545 is not applicable since wrench holes cannot be added. For GFS8-100100 and GFS8-100200, bracket connection is recommended as they are heavy. |

For SHCJ, No.6 only.

| (A) Screw | MxP     | L    | A   | E    | B | (c)  | d   | (e) |
|-----------|---------|------|-----|------|---|------|-----|-----|
| M5        | 5x0.8   | 15   | 9.5 | 2.75 | 3 | 1.56 | -   | 1.6 |
| M8        | 8x1.25  | 20   | 14  | 4.4  | 5 | 2.6  | -   | 3.5 |
| M12       | 12x1.75 | 29.4 | 18  | 4.5  | 6 | 3.6  | 9.8 | 8.4 |

| (B) Joint Plate | N    | A | B  | E   | L  | T   | t   | K    |
|-----------------|------|---|----|-----|----|-----|-----|------|
| 5               | 5.5  | 4 | 10 | 2   | 14 | 5   | 0.8 | 8.2  |
| 6               | 8.3  | 5 | 15 | 3   | 24 | 7.5 | 1.5 | 12.2 |
| 8               | 12.3 | 6 | 18 | 3.5 | 34 | 12  | 2.0 | 15.2 |
| 8-45            |      |   |    |     | 39 |     |     | 19.2 |

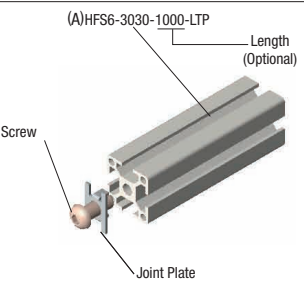
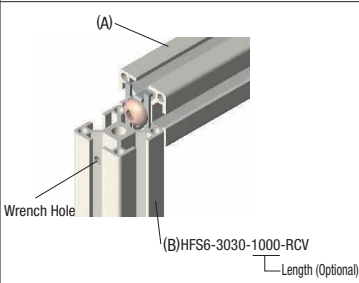
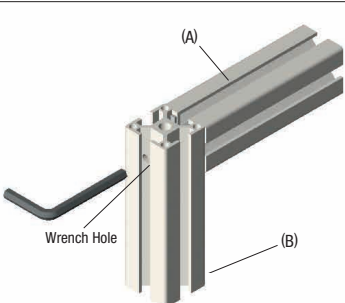
For the detailed dimensions of joint plate for HCJ8-60, refer to the diagram.

 Ordering Example

Part Number  
HCJ8-45  
SHCJ6

 Example

How to Connect Screw Joints (Tapped holes or wrench holes are required on the extrusion.)

| Step         | 1                                                                                                             | 2                                                                                                                                                  | 3                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Description  | Mount a screw joint on the tapped hole on the extrusion end face.                                             | Pass the head of screw joint through the slot of Extrusion (B), and slide it down to the bottom of (A).                                            | Insert the hex wrench into the wrench hole and tighten it.                                           |
| Screw Joints | <br>Screw<br>Joint Plate | <br>Wrench Hole<br>(B)HFS6-3030-1000-RCV<br>Length (Optional) | <br>Wrench Hole |