

Blind Joints - Overview

For 5 Series (Slot Width 6mm) Aluminum Extrusions

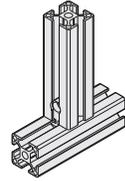
Features of Blind Joints

Connection inside of the extrusions provides good appearance.
Also convenient where interference inside of the corners are not desired or panels need to be inserted into the extrusion slots.

Bracket Connection



Blind Joints Connection



Product List

Product Name	Tapping Joints	Screw Joints	Center Joint
Product Photo			
Features	<ul style="list-style-type: none"> Tapping is not necessary. Most economical Blind Joints. 	<ul style="list-style-type: none"> Joint Plate enables secure and economical connection. 	<ul style="list-style-type: none"> Most standard Blind Joints usable with various types of aluminum extrusions.
Installation Diagram			
Material	JIS-SWCH18A	Steel	EN 1.4308 Equiv.
Representative Type	HTJ	HCJ	HMJ
Applicable Extrusion No.	5 6 8	5 6 8 8-45	5 6 8 8-45
Page	P.552	P.552	P.553
Alterations (pages) required for extrusions	Wrench Hole P.759	Tapping, Wrench Hole P.757, P.759	M Hole P.766

Product Name	Post-Assembly Insertion Double Joints	Parallel Joints
Product Photo		
Features	<ul style="list-style-type: none"> Connects securely at two locations. Tightest connection can be achieved of all Blind Joints. 	<ul style="list-style-type: none"> Extrusions can be connected in parallel.
Installation Diagram	<p>The tapered part of a Joint Pipe and the tab of a post-assembly insertion joint create upward lifting force, connecting the extrusions together.</p>	
Material	EN 1.4308 Equiv., EN 1.4301 Equiv.	EN 1.4308 Equiv., EN 1.4301 Equiv.
Representative Type	HPJN	HLJ
Applicable Extrusion No.	5 6 8 8-45	5 6 8
Page	P.554	P.554
Alterations (pages) required for extrusions	M Hole P.766	L Hole P.767

Blind Joint Components

Tapping Joints / Screw Joints for 5 Series (Slot Width 6mm) Aluminum Extrusions

For details of securing method, see P.602-603.
Alterations necessary to use this component

Wrench Hole
P.759

Tapping
P.757

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

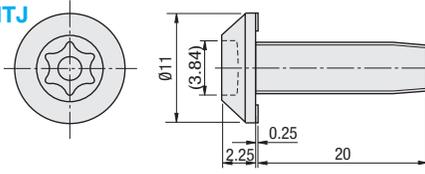
Tapping Joints

(Reference) Corner section when using this joint



RoHS 10

HTJ

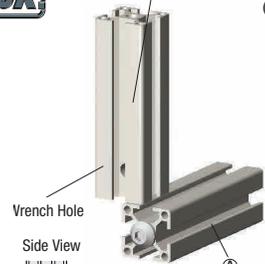


*Tapping on the extrusion is not necessary.

M Material: JIS-SWCH18A (Carburized)
S Surface Treatment: Trivalent Chromate
* JIS-SWCH18A (Cold Forged Carbon Steel Wire)



Example
B HFS5-2020-1000-LCV
Length (Optional)



Wrench Hole

Side View

A

B

Part Number Type	No.	Torx Bit	Applicable Extrusion (Pilot Hole Dia.)	Proper Tightening Torque (Max.)	Unit Price	Volume Discount Rate
HTJ	5	HTJXL25	Ø4.2	12N·m	1~99 pc(s)	100~200

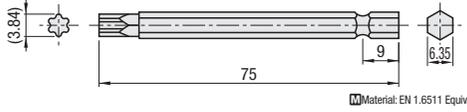
Applicable Extrusion No.	[Exception] Extrusion Not Available
5-2020* 5-2040 5-2060 5-2080 5-4040	* Curved HFSR5-2020 is not applicable since wrench holes cannot be added. Not applicable to HFS5-4040, HFSB5-4040, HFS75-4040, NFS5-4040, NFSB5-4040.

Torx Bit



RoHS 10

HTJXL

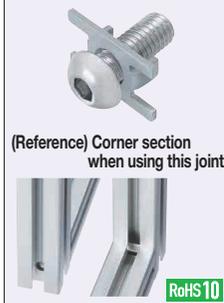


M Material: EN 1.6511 Equiv.

Part Number Type	Applicable Drive for Torx Bit	Unit Price	Volume Discount Rate
HTJXL	25	T20	1~99 pc(s) 10~50

Features: Cost saving blind joints. Including Rotation Stoppers.

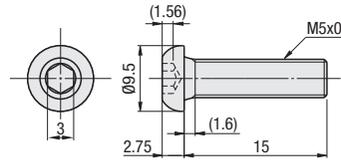
Screw Joints



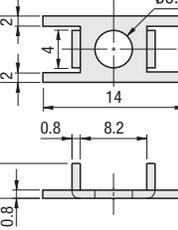
RoHS 10

HCJ (Trivalent Chromate)

A Screw



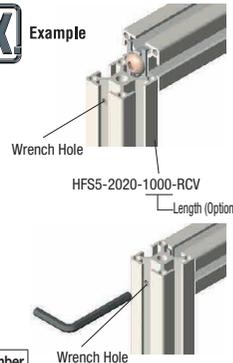
B Joint Plate



Type	Components	M Material	S Surface Treatment
HCJ	Screw	EN 1.7220 Equiv.	Trivalent Chromate
	Joint Plate	EN 1.0330 Equiv.	Trivalent Chromate



Example



Wrench Hole

HFS5-2020-1000-RCV
Length (Optional)

Wrench Hole

Part Number Type	Components	Unit Price	Volume Discount Rate
HCJ	A Screw M5 B Joint Plate 5	1~99 pc(s)	100~200

Applicable Extrusion No.	[Exception] Extrusion Not Available
5-2020* 5-2040 5-2060 5-2080 5-4040	*Curved HFSR5-2020 cannot be used, because Wrench Hole Machining is not allowed.

Features: Screw joint installable without alterations. (Wrench holes are necessary on the mating extrusion.)

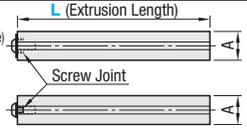
Aluminum Extrusions with Built-in Screw Joints



RoHS 10

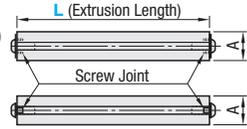
JFSC5-2020L

(Left End Face Screw Joint Pre-Inserted Type)

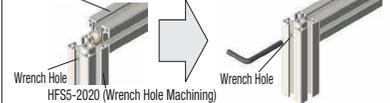


JFSC5-2020W

(Both End Face Screw Joints Pre-Inserted Type)



Wrench holes are necessary on the mating extrusion.
JFSC5-2020L



HFS5-2020 (Wrench Hole Machining)

Wrench Hole

Part Name	M Material	S Surface Treatment
Aluminum Extrusion	EN AC-S1400-T5 Equiv.	Anodize
Screw	EN 1.7220 Equiv.	Trivalent Chromate
Joint Plate	EN 1.0330 Equiv.	Trivalent Chromate

Part Number	Joint Component	L 0.5mm Increment	Extrusion	Built-in Joint Component	Quantity	A	Required Wrench for Tightening	Extrusion Unit Price	Joints, Others
JFSC	5-2020	100~4000	HFS5-2020 (P.529)	HCJ5	1	20	For M5	Less than 300mm 300mm or more	
	(Left End Face only)				2				
	(Double End Faces)								



Part Number - L
JFSC5-2020W - 1200



Alterations

Alterations only on this page are available.

Alterations	Code	Spec.			Alterations	Code	Spec.		
		Extrusion	Tap	Depth			Extrusion	H	Hole Dia.
Right End Face Tapping	RTP	5-2020	M5	15	Right End Face Wrench Hole	RCH	5-2020	10	7.35

JFS □-□-□-□ L is only applicable to Left End Face Joint Pre-Inserted Type.



Tapping

Applicable to JFS□-□-□-□ L and JFS□-□-□-□ L only.

