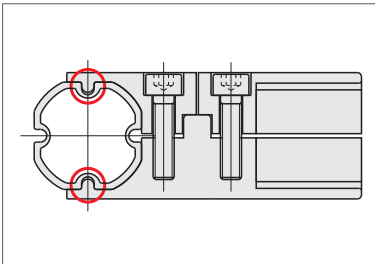


Features of Factory Frame System

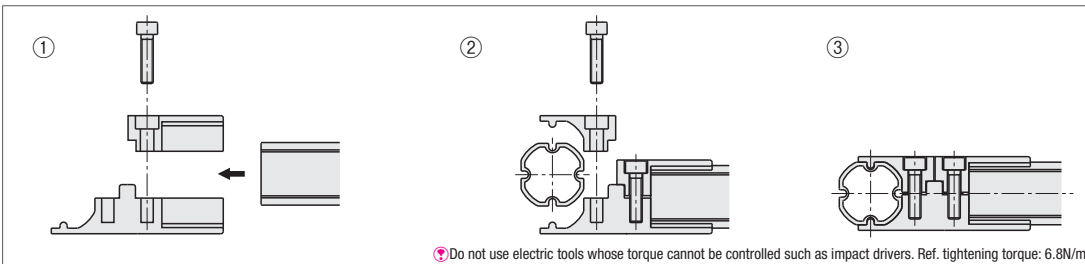
Features of Factory Frame System

Compared with the conventional pipe frames, Aluminum Pipe Frames have the advantages as follows;

- Improved perpendicularity at assembly.
- Allows fine adjustment after assembly.



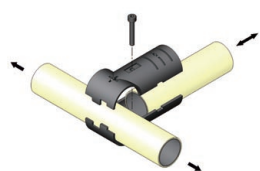
This Factory Frame System can be smoothly assembled without bothered by the frame twisting, just by setting the frame dents in the joint tabs.



Do not use electric tools whose torque cannot be controlled such as impact drivers. Ref. tightening torque: 6.8N/m

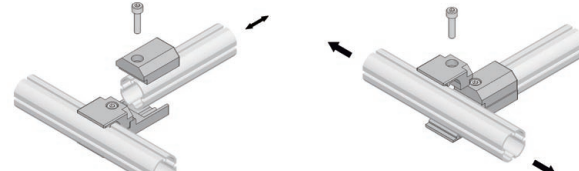
Frames can be assembled by tightening the screws for each frame by turns. There is no need to fix several frames at a time, which enables easy assembly.

Conventional Frame Joint



When a screw is loosened, both frames move.

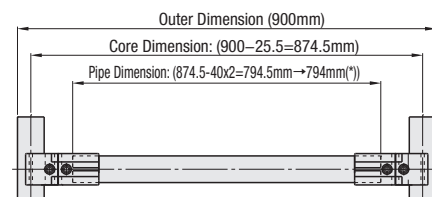
Factory Frame System



Separate adjustment is possible for each frame.

With shifting of frame members with conventional frame joints, both sides of the frame would come loose when the screws are loosened, but with our Factory Frame System, only the member to be shifted can be loosened making post-assembly corrections and adjustments easy. No need to hold several frames at a time when assembling.

How to Calculate Pipe Dimension



* If the dimension has the digits after decimal point, round it down to the nearest 1.

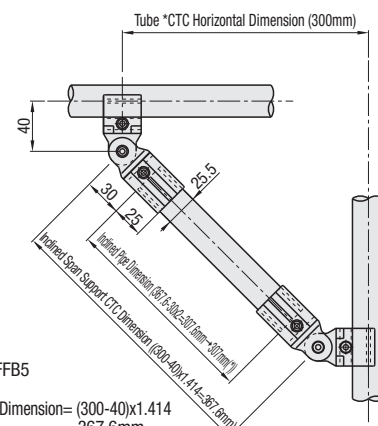
When using FFB1

$$\begin{aligned} \text{CTC Dimension} &= 900 - 25.5 = 874.5\text{mm} \\ &= \text{O.D.} - \text{Factory Frame Dia.} \end{aligned}$$

$$\text{Pipe Dimension} = 874.5 - 40 \times 2 = 794.5\text{mm}$$

$$= \text{CTC Dimension} - \text{Length from the Center to the Tip of the Pipe} \times 2$$

If the pipe dimension has the digit after decimal point, round it down to the nearest 1.
→ Final Pipe Length = 794mm



When using FFB5

$$\begin{aligned} \text{Actual Inclined Dimension} &= (300 - 40) \times 1.414 \\ &= 367.6\text{mm} \\ &= (\text{CTC Dimension between Flats} - 40) \times 1.414 \end{aligned}$$

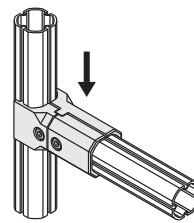
$$\begin{aligned} \text{Inclined Pipe Dimension} &= 367.6 - 30 \times 2 = 307.6\text{mm} \\ &= \text{Actual Inclined Dimension} - \text{the Distance from the Fulcrum to the Pipe End} \times 2 \end{aligned}$$

* If the pipe dimension has the digit after decimal point, round it down to the nearest 1.
→ Final Pipe Length = 307mm

* CTC = Center TO Center

Allowable Load

Allowable Load of Metal Joints



Load that doesn't cause joints misalignment
Max. Load = Approx. 80kg

Please note the maximum load is the value of the static load, and impact load may be lower than this value.

Deflection Amount of Factory Frames

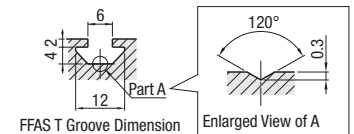
→ Please refer to Allowable Load of Aluminum Extrusions on P.705.

Factory Frame

RoHS10

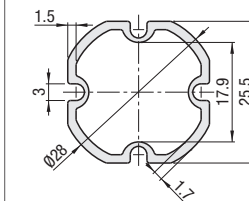


Type			Material	Surface Treatment
L Configurable	3000mm 6 pcs./set	4000mm 5 pcs./set		
FFA	FFATS	FFAKS	A6N01SS-T5 Aluminum Alloy	Anodize
FFAU	FFAUTS	FFAUKS		
FFAS	FFASTS	FFASKS		



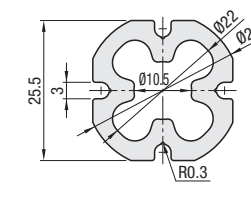
<Standard Type>

FFA (L Configurable)
FFATS (Base Material 3000mm 6 pcs./set)
FFAKS (Base Material 4000mm 5 pcs./set)



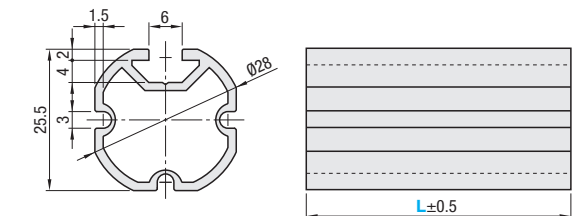
<High Rigidity Type>

FFAU (L Configurable)
FFAUTS (Base Material 3000mm 6 pcs./set)
FFAUKS (Base Material 4000mm 5 pcs./set)



<Groove Type>

FFAS (L Configurable)
FFASTS (Base Material 3000mm 6 pcs./set)
FFASKS (Base Material 4000mm 5 pcs./set)



Select the nuts to be used in slots from P.615~620

L Configurable

Part Number		L 1mm Increment	Mass kg/m	Sectional Area mm ²	Geometrical Moment of Inertia mm ⁴		Unit Price Less Than 300mm	Unit Price/m 300mm or More
Type	No.				ℓx	ℓy		
FFA	28	60~4000	0.37	137.2	1.07x10 ⁴	1.07x10 ⁴		
FFAU			0.82	303.1	1.86x10 ⁴	1.86x10 ⁴		
FFAS			0.42	155.6	1.11x10 ⁴	1.12x10 ⁴		

3000mm 6 pcs./set

Part Number		L (mm)	Mass kg/pc.	Unit Price 6 pcs./set
Type	No.			
FFATS	28	3000 (6 pcs./set)	1.11	
FFAUTS			2.46	
FFASTS			1.26	

4000mm 5 pcs./set

Part Number		L (mm)	Mass kg/pc.	Unit Price 5 pcs./set
Type	No.			
FFAKS	28	4000 (5 pcs./set)	1.49	
FFAUKS			3.28	
FFASKS			1.69	

The Cutter, Deburring tool (P.857), and Adhesive (P.841) shown on cannot be used.



Part Number - L
FFA28 - 1800
FFATS28



Days to Ship

Configure Online



Alterations

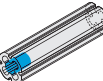
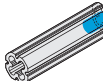


Configure Online



Example



Alterations		Tapping on Ends		
Code	Tap Shape	LTP	RTP	TPW
Spec.		The illustration below shows the basic frame position.		
Applicable Frame		LTP: Left End	RTP: Right End	TPW: Both Ends
				
FFAU	M12 Depth 36			

Available only for L Configurable Type FFAU.