

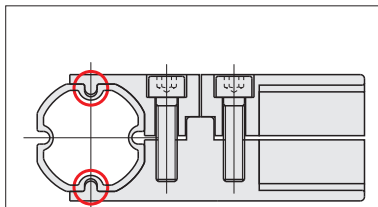
Features of Factory Frame System

Factory Frames

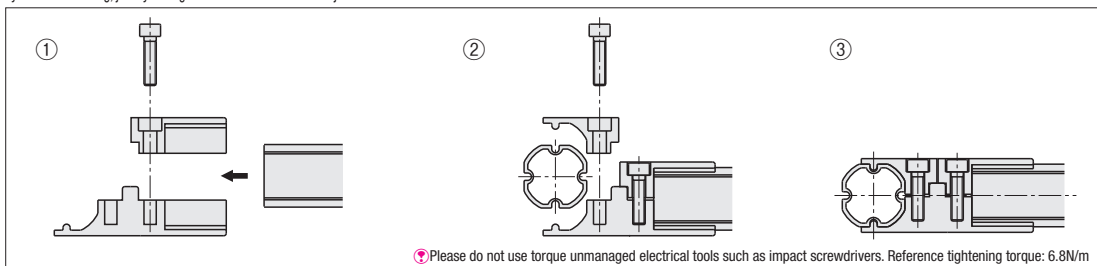
Features of Factory Frame System

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

- Easy to obtain squareness during assembly.
- Allows for fine adjustments after assembly.



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



Please do not use torque unmanaged electrical tools such as impact screwdrivers. Reference tightening torque: 6.8N/m

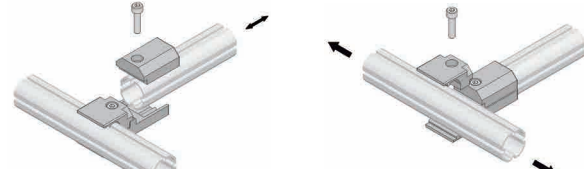
Frames can be assembled by tightening the screws for each frame in turns. There is no need to fix multiple frames at a time, which enables easy assembly.

Conventional Frame Joint



When a screw is loosened, both frames move.

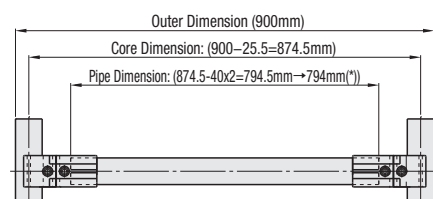
Factory Frame System



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 multiple frames at a time when assembling.

How to Calculate Pipe Dimension



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

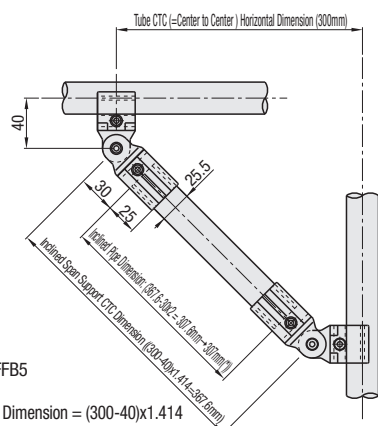
When using FFB1

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

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

= CTC Dimension - Length from the Center to the Tip of the Pipe x2

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



When using FFB5

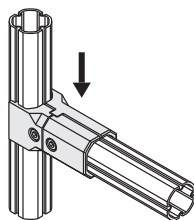
Actual Inclined Dimension = $(300 - 40) \times 1.414 = 367.6\text{mm}$
= (CTC Dimension between Flats-40) x 1.414

Inclined Pipe Dimension = $367.6 - 30 \times 2 = 307.6\text{mm}$
= Actual Inclined Dimension - the Distance from the Fulcrum to the Pipe End x2

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

Allowable Load

Allowable Load of Joint for Factory Frames

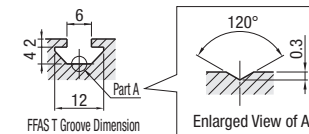


Load that doesn't cause joints misalignment
Max. Load = Approx. 80kg

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



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



<Standard Type>

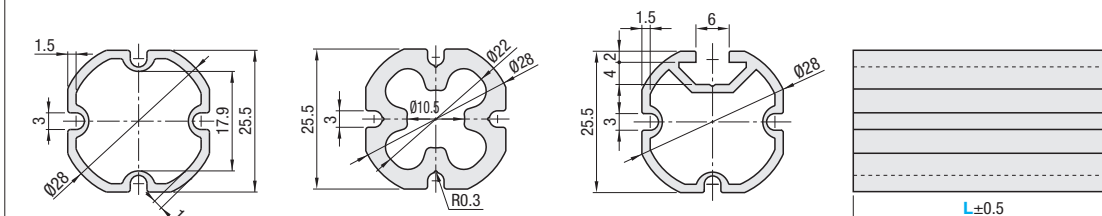
FFA (L Configurable)
FFATS (Base Material 3000mm 6 pcs./set)
FFAKS (4000mm 5 pcs./set)

<High Rigidity Type>

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

<Groove Type>

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



Please select the nuts for the slots from P558-566.

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 1~50 pc(s).	Unit Price/m 300mm or More 1~50 pc(s).
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 1~20 sets
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 1~20 set(s)
Type	No.			
FFAKS	28	4000 (5 pcs./set)	1.49	
FFAUKS			3.28	
FFASKS			1.69	

The Cutter, Deburring Tool (P911), and Adhesive (P895) cannot be used on the Factory Frames.

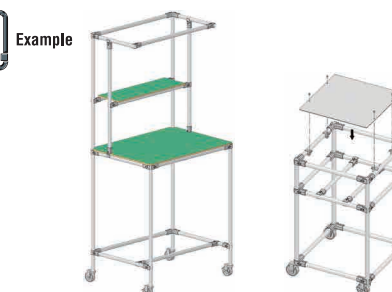
For orders larger than indicated quantity, please check with WOS.

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Ordering Example
Part Number - L
FFA28 - 1800
FFATS28

When L is less than 300, the unit price is as indicated in the table, regardless of its length.
When L is 300 or more, total prices are calculated as follows;
Unit Price/m x Specified Full Length = Sales Price



Alterations

Alterations		Tapping on Ends		
Code	Spec.	LTP	RTP	TPW
Applicable Frame		Tap Shape	Placements of the frames shown below are the standard reference positions. LTP: Left End RTP: Right End TPW: Both Ends	
FFAU	M12 Depth 36	200	200	400

Available only for L Configurable Type FFAU.