

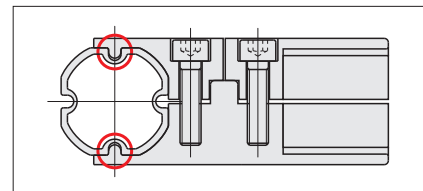
Factory Frame System

Features

Features of Factory Frame System

Compared to the conventional pipe frames, aluminum pipe frames have the advantages as follows:

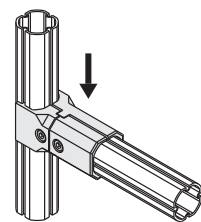
- Improved squareness at assembly.
- Allows fine adjustment after assembly.



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

Allowable Load

Allowable Load of Metal Joints

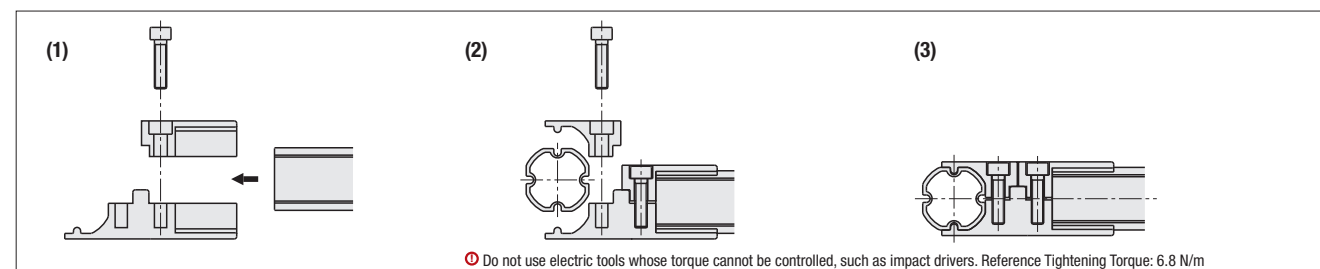


Load that doesn't cause joints misalignment
Max. Load = Approx. 80 kg

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

Deflection Amount of Factory Frames

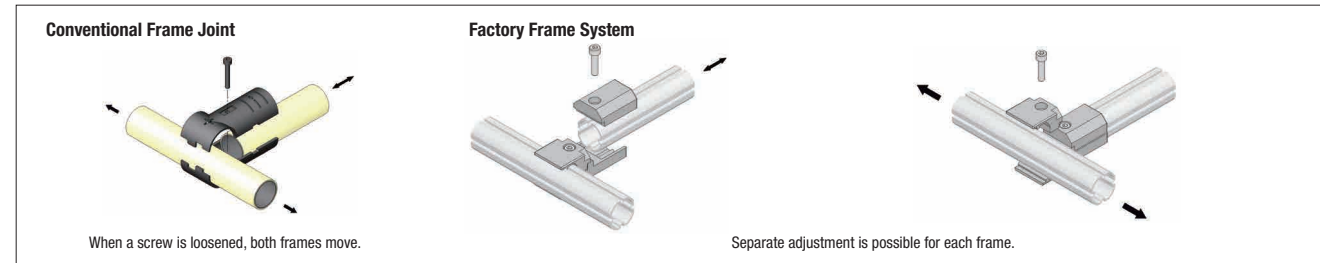
Please refer to Allowable Load of Aluminum Extrusions on P.2888



⚠ Do not use electric tools whose torque cannot be controlled, such as impact drivers. Reference Tightening Torque: 6.8 N/m

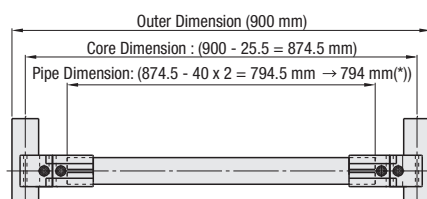
Frames can be assembled by tightening the screws for each frame.

There is no need to fix several frames at a time, which enables easy assembly.



When loosening a bolt of the conventional frame joints, two fixed frames also loosen. Whereas, the Factory Frames System can loosen only the frame which needs to be moved. This feature enables frames to be arranged or adjusted after assembling. No need to hold several frames at a time when assembling.

How to Calculate Pipe Dimension



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

When Using FFB1

Core Dimension = 900 - 25.5 = 874.5 mm
= Outer Diameter - Factory Frame Diameter
Pipe Dimension = 874.5 - 40 x 2 = 794.5 mm
= Core Dimension - Length from the center to the tip of the pipe x 2
If the pipe dimension has the digit after decimal point, round it down to the nearest 1.
→ Eventual Pipe Length = 794 mm

When Using FFB5

Actual Inclined Dimension = (300 - 40) x 1.414
= 367.6 mm
= (Core Dimension Between Flats-40) x 1.414
Inclined Pipe Dimension (367.6 - 30 x 2 = 307.6 mm
= The actual Inclined Dimension the Distance from the Fulcrum to the Pipe End x 2

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

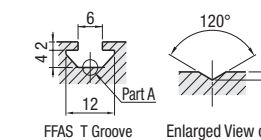
Factory Frames

Factory Frames



RoHS 10

L Dimension Configurable	Type		Material	Surface Treatment
	3,000 mm 6 pcs./set	4,000 mm 5 pcs./set		
FFA	FFATS	FFAKS	A6N01SS-T5 Aluminum Alloy	Anodizing
FFAU	FFAUTS	FFAUKS		
FFAS	FFASTS	FFASKS		



Standard Type

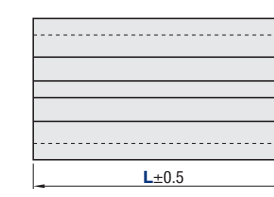
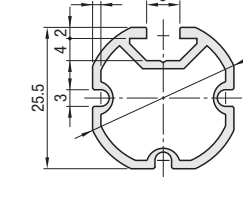
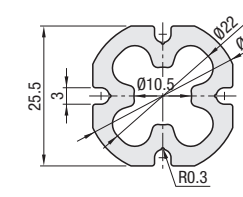
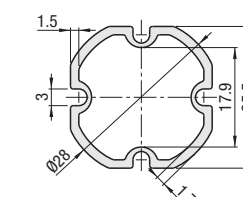
FFA L Dimension Configurable
FFATS
Base Material 3,000 mm 6 Pcs/Set
FFAKS
Base Material 4,000 mm 5 Pcs/Set

High Rigidity Type

FFAU L Dimension Configurable
FFAUTS
Base Material 3,000 mm 6 Pcs/Set
FFAUKS
Base Material 4,000 mm 5 Pcs/Set

Groove Type

FFAS L Dimension Configurable
FFASTS
Base Material 3,000 mm 6 Pcs/Set
FFASKS
Base Material 4,000 mm 5 Pcs/Set



⚠ Select nuts for grooves from P.2796-2803

L Dimension Configurable

Part Number		L 1 mm Increment	Mass kg/m	Sectional Area mm ²	Geometrical Moment of Inertia mm ⁴	
Type	No.				Ix	Iy
FFA	28	60-4000	0.37	137.2	1.07 x 104	1.07 x 104
FFAU						
FFAS						

3,000 mm 6 Pcs/Set

Part Number	No.	(mm)	Mass kg/pc.
FFATS	28	3,000 6 pcs./set	1.11
FFAUTS			2.46
FFASTS			1.26

4,000 mm 5 Pcs/Set

Part Number	No.	(mm)	Mass kg/pc.
FFAKS	28	4,000 5 pcs./set	1.49
FFAUKS			3.28
FFASKS			1.69

⚠ The Cutter, Deburring tool, and Adhesive shown on cannot be used.

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

Part Number Example: FFA28 - L 1800
FFATS28

Application Example:

