

Tensioners / Stainless Steel Wires

For Aluminum Extrusions

Tensioner Accessories for Aluminum Extrusions

WPFS
Wire Socket

WPTR
Wire Socket with Tensioner

Material: Free-Cutting Brass Surface Treatment: Nickel Plating

⊙ Can be mounted to HBLFNS5-C (P.2692).

Wire Sockets & Wire Sockets with Tensioner for Ø1.5 Stainless Steel Wire

Part Number	Type	No.	Mass (g)	Components			
				Truss Screw	Quantity	Acorn Nut	Quantity
WPFS	1.5	19		M4x25	1	M4	1
WPTR	1.5	44					

WPTR (Wire Socket with Tensioner)

- (1) Turn and extend the tensioner. Insert the wire.
 - (2) Insert to the end. Cannot be pulled out in this state. (Safe load 30g, Break load 80g)
 - (3) Turn the tensioner and exert tension on the wire. Load tension within the working range of 15 mm.
- The state where the tension is being exerted.
- (1)
 - (2) Loosen by turning the tensioner.
 - (3) By pressing the tip (A) wire can be pulled out (B). (Remove tension in order to press wire.)

WPFS (Wire Socket)

- (1) Insert wire
- (2) Insert to the end. Cannot be pulled out in this state. (Safety load 30 kg, cut-off load 80 kg)
- (3) By pressing the tip (A) wire can be pulled out (B). (Must remove tension in order to press wire.)

Inserting Wire



Insert the wire from the pin side. While doing so, insert the wire enough into the pin. The wire will then be gripped.

Removing Wire



When removing the wire, pull out the wire while pressing the pin.

Wire Diameter (mm)	Wire Diameter Selection Guide ¹⁾		Tensile Load Test Result ²⁾	
	Allowable Load (kg)	Max. Load (kgf)	Max. Load (kgf)	Displacement (mm)
1.50	30	84.8-95.7	10-11	(80 kgf)

¹⁾ Allowable load is determined as 1/3 of the maximum static load rating. Depending on usage, consider applying safety factor up to 1/5.

²⁾ These are test results by the Tokyo Metropolitan Industrial Technology Research Institute. Displacement is the value measured with 110 m distance between metals.

Stainless Steel Wires

WPS

⊙ The cut ends of the wire are terminated to prevent fraying. Material: 304 Stainless Steel 7 x 7 Strands

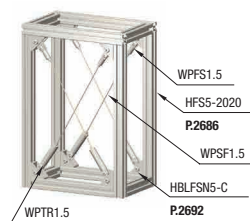
Stainless Steel Wire Standard Length

Part Number	Type	No.	Length L (m)	Mass (g)

Part Number Example Part Number - L (m)
WPS1.5 - 1

Application Example

WPFS, WPTR both can be mounted to the Aluminum Extrusions Bracket (P.2692)



- 0 Insert the wire until the tip comes out from the inside.
- 0 Install so that the tension is exerted straight on the wire.
- X X
- X X

Jigs for Assembly / Drilling Jigs / Black Anodize Spot Repair Pen

Blind Joint D Hole / Wrench Hole Machining

Jigs for Assembly

RoHS 10

HFKZG

Part Number Example Part Number
HFKZG6

Part Number	Type	No.	Extrusions (Series)	Components					
				(1) Plate	Quantity	(2) Wing Screw	Quantity	(3) Post-Assembly Fitting Nut	Quantity
HFKZG	5		HFS5	HPTSS5	1	CHOB4-8	2	HNTFSN5-4	2
	6		HFS6	HPTSS6	1	CHOB6-12	2	HNTFSN6-6	2
	8		HFS8	HPTSS8	1	CHOB8-15	2	HNTFSN8-8	2
	8-45		HFS8-45	HPTSS8-45	1				

Application Example

Assembly Fixture sits over two extrusions (A) and (B) to make the surface even. Then use angle bracket if needed.

Drilling Jigs – Blind Joint D Hole / Wrench Hole Machining

HFSJG

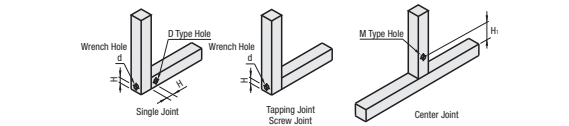
*No hole for HFSJG5.

Body, Locating Plate
Material: 1018 Carbon Steel or Equivalent
Surface Treatment: Black Oxide

Part Number	Type	No.	A	B	P	H	R	D	Extrusions (Series)	Components						
										Clamp Lever	Quantity	Nut	Quantity	Screw	Quantity	Locating Plate
HFSJG	5		100	25	15	15	7.3	7.1	HFS5	CLDM5-20-Y	1	HNTTSN5-5	1	CHOB5-8	1	1 Pc.
	6		100	30	15	15	8	11.1	HFS6	CLDM6-20-M	1	HNTFSN6-6	1	CHOB5-8	2	1 Pc.
	8		110	40	20	20	8	13.1	HFS8	CLDM8-25-B	1	HNTFSN8-8				
	8-45		120	45	22.5	22.5	8	15.1	HFS8-45	CLDM8-25-S	1	HNTFSN8-8				

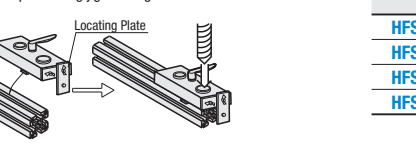
Part Number Example Part Number
HFSJG6

Hole Type	Hole Name
Hole for Joint Nut of Single Joint	D Type Hole
The Hole for the Joint Guide / Joint Hollow of Center Joint, Post-Assembly Double Joint.	M type Hole
Wrench Hole for Tightening Screw of Joint Plate of Single Joint	Wrench Hole



Application Example

- 1) Attach the Locating Plate to one of the holes on the drilling jig.
- 2) Slide jig into the frame channel up to the Locating Plate.
- 3) Drill hole using the positioning jig bushing.



Applicable Frame Series	H mm	H ₁ mm	D Type Hole mm	M type Hole mm	d (Wrench Hole) mm
HFS5	10	10	—	7.1	7.3
HFS6	15	15	11.1	11.1	8
HFS8	20	20	13.1	13.1	
HFS8-45	22.5	20	15.1	13.1	

Black Anodize Spot Repair Pen
ANCP

Part Number	Volume (ml)	Type	Features	Color	Usage	Operating Temp. Range (°C)	How to Use Dry Condition	Main Components
ANCP	13	Pen	A felt-tipped pen that can quickly repair flaws on black anodized items. Repairs become less noticeable as the color is similar to that of black anodized aluminum extrusions.	Mat Black	Flaw repairs of black anodizing on aluminum frame extrusions. Markings on aluminum items.	5-35	Shake well before use, and directly apply on the surface to repair.	Acrylic Resin

Part Number Example Part Number
ANCP

Characteristic Values of ANCP

Item	Values	
Drying Characteristics	Dry to Touch	10 minutes
	Cured Dry	50 minutes
Pencil Hardness (JIS K5400)		F
Gasoline Resistance (Soaked in Gasoline 2 Hours)	Partial Softening	
Alkali Resistance (20°C 5%NaOH 24 Hours)	Standard	