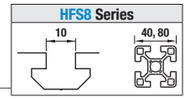
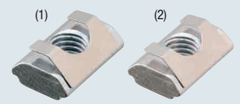
Post-Assembly Spring Insertion Nuts

For HFS8 Series Aluminum Extrusions 40, 80 mm Square

HFS8 Series



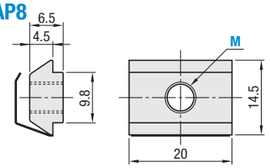
Post-Assembly Insertion Nuts with Leaf Springs



RoHS10

Type	Material		
	Main Body	Wing Part	Surface Treatment
(1) HNTAP8	1010 Carbon Steel	304 Stainless Steel	Trivalent Chromate
(2) SHNTAP8	304 Stainless Steel		—

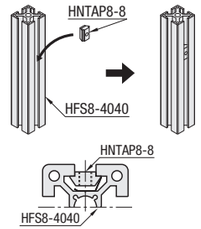
HNTAP8
SHNTAP8



Reference Tightening Torque (N·m)	
M	1010 Carbon Steel / 304 Stainless Steel
8	23.5

Part Number	M			
HNTAP8	4	5	6	8
SHNTAP8	4	5	6	8

Application Example

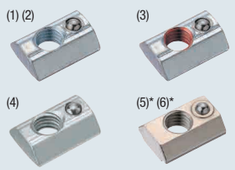


Welded Leaf Springs maintains position (even in vertical extrusions).

Part Number Example

Part Number	-	M
HNTAP8	-	8

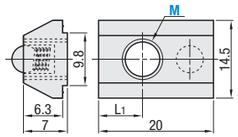
Post-Assembly Insertion Spring Nuts



RoHS10

* Electrically conductive

HNTP8 1010 Carbon Steel
PACK-HNTP8 1010 Carbon Steel, 100/pkg.
HNTPV8
Thread Locking Adhesive Type, 1010 Carbon Steel
HNTPZ8
Thread Locking Resin Coating Type, 1010 Carbon Steel
SHNTP8 316 Stainless Steel, Sintering
PACK-SHNTP8 316 Stainless Steel, Sintering, 100/pkg.



Reference Tightening Torque (N·m)	
M	1010 Carbon Steel / 316 Stainless Steel (Sintering)
8	23.5

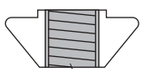
Type	Material			
	Body	Ball	Springs	Surface Treatment
(1) HNTP8 (2) PACK-HNTP8 (3) HNTPV8 (4) HNTPZ8	1010 Carbon Steel	304 Stainless Steel	Spring Steel (ASTM A228)	Trivalent Chromate
(5) SHNTP8* (6) PACK-SHNTP8*	316 Stainless Steel (Sintering)		304 Stainless Steel	—

Part Number / Type	M					L_1
HNTP8 1010 Carbon Steel Equivalent	3	4	5	6	8	8
HNTPV8 Thread Locking / 1010 Carbon Steel Equivalent					8	
HNTPZ8 Thread Locking / 1010 Carbon Steel Equivalent					8	
SHNTP8 316 Stainless Steel Equivalent, Sintering		4	5	6	8	8.5

Part Number Example

Part Number	-	M
HNTP8	-	8

Thread Locking Type



Thread locking compound applied inside of the tap.

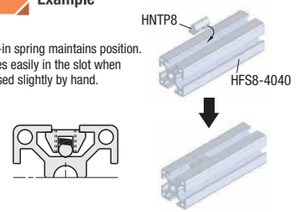
Nuts have thread locker applied on the inside of tap. It reduces loosening caused by vibration during transportation and operation of equipment.
Thread Locking Adhesive: A microencapsulated anaerobic adhesive prevents thread loosening. Note that it requires a set up time (72 hours at room temperature 25°C). The adhesive property is lost once loosened.
Resin Coating: Resin is coated along the threads. Although the thread locking may be less than the adhesive type, it can be used repeatedly and without set up time.

Bulk Packages

Part Number / Type	M				L_1
PACK-HNTP8 1010 Carbon Steel, 100/pkg.	4	5	6	8	8
PACK-SHNTP8 316 Stainless Steel , Sintering, 100/pkg.					8.5

Application Example

Built-in spring maintains position. Moves easily in the slot when pressed slightly by hand.



*Maintains position (even in vertical extrusions).

Effect of Thread Locker (Reference)

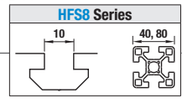
Loosening torque values are for reference. Difference may occur depending on the clearances between screws and nuts.

	Features	Loosening torque after tightening (1st time)	Remarks
Without Thread Locker	—	17.9 N·m	—
Thread Locking Adhesive Type	– Prevents loosening effectively. – Thread locking properties are lost once loosened. – Requires a hardening time for adhesives (72 hours at room temperature 25°C) after tightening.	25.6 N·m	Test Conditions: Measured value (HNTPV8-8) when a screw is loosened after drying for 72 hours at room temperature (25°C), after tightened at 23.5N·m.
Thread Locking Adhesive Type Resin Coating Type	– Can be used repeatedly. (Thread locking effect decreases after repeated use.) – Thread locking effect is immediately seen right after tightening.	20.3 N·m	Thread locking effect decreases after repeated use. Loosening Torque at 5 Repeats: 19.1N·m Measurement with HNTAZ8-8

Post-Assembly Insertion Nuts for Aluminum Extrusions / Others

For HFS8 Series Aluminum Extrusions 40, 80 mm Square

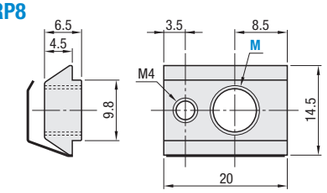
HFS8 Series



Post-Assembly Insertion Lock Nuts with Leaf Springs

RoHS10

HNTRP8



Reference Tightening Torque (N·m)	
M	1010 Carbon Steel
8	23.5

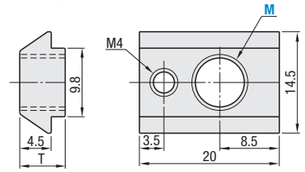
Part	Material	Surface Treatment
Main Body	1010 Carbon Steel	Trivalent Chromate
Wing Part	304 Stainless Steel	—

Part Number	M	Accessories
HNTRP8	8	M4x4 Set Screw for Locking

Post-Assembly Insertion Lock Nuts

RoHS10

HNTR8 1010 Carbon Steel or Equivalent
HNTRSN8 316 Stainless Steel or Equivalent, Sintering
HNTRZ8 Thread Locking, 1010 Carbon Steel or Equivalent



Reference Tightening Torque (N·m)	
M	1010 Carbon Steel / 316 Stainless Steel (Sintering)
8	23.5

Type	Material	Surface Treatment
HNTR8 HNTRZ8	1010 Carbon Steel or Equivalent	Trivalent Chromate
HNTRSN8*	316 Stainless Steel (Sintering)	—

* Electrically conductive

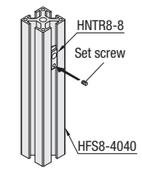
Part Number	M				T	Accessories
HNTR8 1010 Carbon Steel or Equivalent	4	5	6	8	6.5	M4 x 6 Set Screw for Locking 1 pc.
HNTRSN8 316 Stainless Steelor Equivalent, Sintering					6.0	
HNTRZ8 1010 Carbon Steel or Equivalent				8	6.5	

Part Number Example

Part Number	-	M
HNTR8	-	8

Application Example

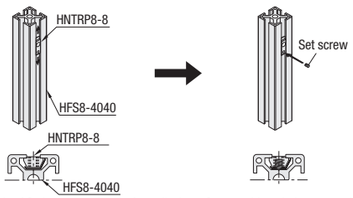
Post-Assembly Insertion Lock Nuts (HNTR)



The nut can be fixed in place by itself by tightening the included set screw.

Suitable for use where high repeatability is required, such as mounting sensors or repeatedly replacing panels.

Post-Assembly Insertion Lock Nuts with Leaf Springs (HNTRP)



Welded Leaf Springs prevents nuts from slipping off even if inserted into the vertically-oriented extrusions, making assembly easier.

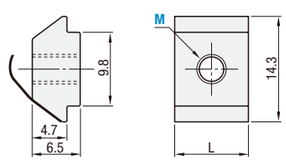
Once positioned, the nut can be locked into place by tightening the included set screw.

Post-Assembly Insertion Short Nuts

RoHS10

Part	Material	Surface Treatment
Body	1010 Carbon Steel	Trivalent Chromate
Wing Part	304 Stainless Steel	—

HNTAJ8
PACK-HNTAJ8



Part Number	M			T
HNTAJ8	3	4		10
PACK-HNTAJ8			8	12

Part Number Example

Part Number	-	M
HNTAJ8	-	8

Overall length is shorter than Pre-Assembly Insertion Nuts HNTT. Suitable for installing sensors or other components closely together.