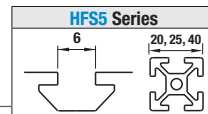


Post-Assembly Insertion Spring Nuts

HFS5 Series (Aluminum Extrusions 20, 25, 40 mm Square)

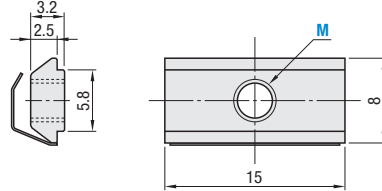


Post-Assembly Insertion Nuts with Leaf Springs

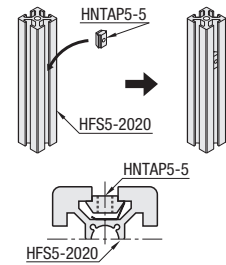


HNTAP5
SHNTAP5

Reference Tightening Torque (N.m)	
M	1010 Carbon Steel / 304 Stainless Steel
5	6.8



Application Example



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

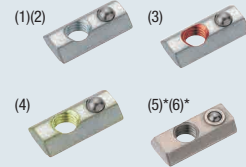
Part	Material		Surface Treatment
	Main Body	Wing Part	
(1) HNTAP5	1010 Carbon Steel	304 Stainless Steel	Trivalent Chromate
(2) SHNTAP5	304 Stainless Steel	304 Stainless Steel	—

RoHS10

Part Number	M
HNTAP5	3 4 5
SHNTAP5	3 4 5

Part Number Example: **HNTAP5** - **M**

Post-Assembly Insertion Spring Nuts

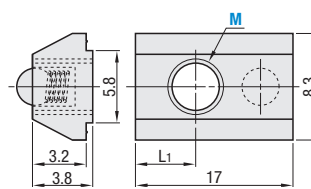


RoHS10

- HNTP5** (1010 Carbon Steel)
- PACK-HNTP5** (1010 Carbon Steel, 100/pkg.)
- HNTPV5** (Thread Locking Adhesive Type, 1010 Carbon Steel)
- HNTPZ5** (Thread Locking Resin Coating Type, 1010 Carbon Steel)
- SHNTP5** (316 Stainless Steel, Sintering)
- PACK-SHNTP5** (316 Stainless Steel, Sintering, 100/pkg.)

Type	Material			
	Body	Ball	Springs	Surface Treatment
(1) HNTP5 (2) PACK-HNTP5 (3) HNTPV5 (4) HNTPZ5	1010 Carbon Steel	304 Stainless Steel	Spring Steel (ASTM A228)	Trivalent Chromate
(5) SHNTP5* (6) PACK-SHNTP5*	316 Stainless Steel (Sintering)	304 Stainless Steel	304 Stainless Steel	—

*Electrically conductive

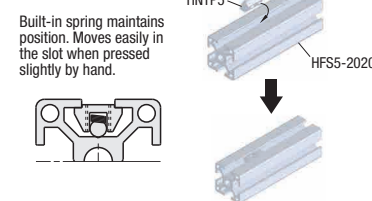


Reference Tightening Torque (N.m)	
M	1010 Carbon Steel / 316 Stainless Steel (Sintering)
5	6.8

Part Number	M	L ₁
HNTP5 (1010 Carbon Steel)	3 4 5	6
HNTPV5 (Thread Locking, 1010 Carbon Steel)	5	
HNTPZ5 (Thread Locking, 1010 Carbon Steel)	5	
SHNTP5 (316 Stainless Steel, Sintering)	3 4 5	6.5

Part Number Example: **HNTP5** - **M**

Application Example

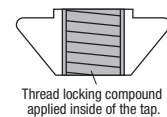


Maintains position (even in vertical extrusions).

Bulk Packages

Part Number	M	L ₁
PACK-HNTP5 (1010 Carbon Steel, 100/pkg.)	3 4 5	6
PACK-SHNTP5 (316 Stainless Steel, Sintering, 100/pkg.)	3 4 5	6.5

Thread Locking Type



Nuts with thread locker applied on the inside of tap. Reduce loosening caused by vibration at transportation or operation of equipment.
Thread Locking Adhesive: A microencapsulated anaerobic adhesive prevents thread loosening. Note that it requires a hardening 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 effect may be less than adhesive type, it can be used repeatedly without hardening time required.

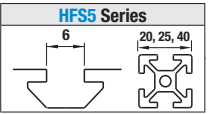
Effect of Thread Locker (Reference)

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

Without Thread Locker	Features	Loosening Torque After Tightening (1st time)	Remarks
—	—	5.0 N.m	—
Thread Locking Adhesive Type	<ul style="list-style-type: none"> 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. 	6.3 N.m	Test Conditions: Measurement of the value when loosening a bolt on HNTPV5-5 after drying for 72 hours at room temperature (25°C) after tightening with 6.8 N.m.
Thread Locking Resin Coating Type	<ul style="list-style-type: none"> Can be used repeatedly. (Thread locking effect decreases after repeated use.) Thread locking effect is immediately seen right after tightening. 	6.1 N.m	Thread locking effect decreases after repeated use. 5th loosening torque: 5.7 N.m. Measurement at HNTAZ5-5

Post-Assembly Insertion Nuts / Stoppers for Aluminum Extrusions

HFS5 Series (Aluminum Extrusions 20, 25, 40 mm Square)



Post-Assembly Insertion Lock Nuts with Leaf Springs

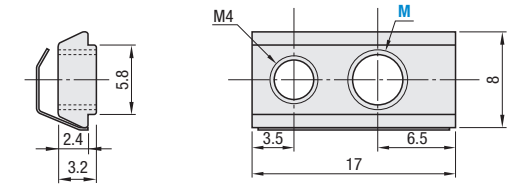
RoHS10



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

HNTRP5

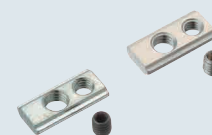
Reference Tightening Torque (N.m)	
M	1010 Carbon Steel
5	6.8



Part Number	M	Accessories
HNTRP5	5	M4 Set Screw for Locking

Post-Assembly Insertion Lock Nuts

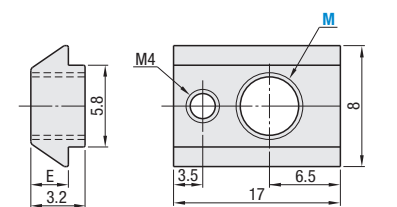
RoHS10



Part	Material	Surface Treatment
HNTR5	1010 Carbon Steel Equivalent	Trivalent Chromate
HNTRSN5	316 Stainless Steel Equivalent (Sintering)	—

HNTR5 (1010 Carbon Steel)
HNTRSN5 (316 Stainless Steel Equivalent, Sintering)

Reference Tightening Torque (N.m)	
M	1010 Carbon Steel Equivalent / 316 Stainless Steel Equivalent (Sintering)
5	6.8

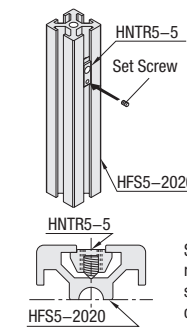


Part Number	M	E	Accessories
HNTR5 (1010 Carbon Steel Equivalent)	3 4 5	2.4	M4 Set screw 1 pc.
HNTRSN5 (316 Stainless Steel Equivalent, Sintering)		2.5	

Part Number Example: **HNTR5** - **M**

Application Example

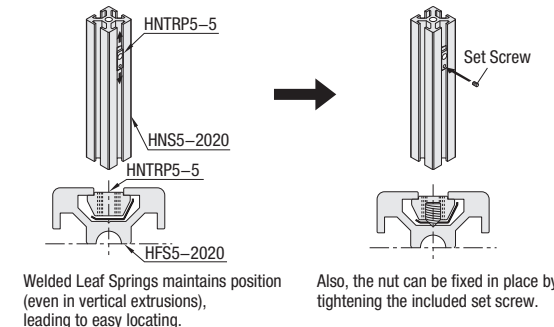
Post-Assembly Insertion Lock Nuts (HNTR)



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 maintains position (even in vertical extrusions), leading to easy locating.

Also, the nut can be fixed in place by tightening the included set screw.

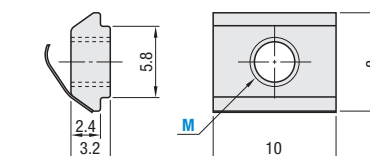
Post-Assembly Insertion Short Nuts

RoHS10



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

HNTAJ5
PACK-HNTAJ5 (100/pkg.)



Part Number Example: **HNTAJ5** - **M**

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

Part Number	M
HNTAJ5	3 4 5
PACK-HNTAJ5	