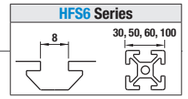
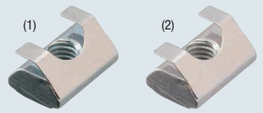
Post-Assembly Insertion Spring Nuts for Aluminum Extrusions

For HFS6 Series Aluminum Extrusions 30, 50, 60, 100 Square

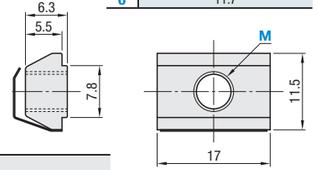


Post-Assembly Insertion Nuts with Leaf Springs



RoHS10

HNTAP6
SHNTAP6

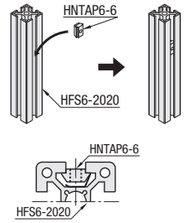


Reference Tightening Torque (N-m)	
M	1010 Carbon Steel / 304 Stainless Steel
6	11.7

Type	Material		
	Main Body	Wing Part	Surface Treatment
(1) HNTAP6	1010 Carbon Steel	304 Stainless Steel	Trivalent Chromate
(2) SHNTAP6	304 Stainless Steel		—

Part Number	M			
HNTAP6	3	4	5	6
SHNTAP6	3	4	5	6

Application Example

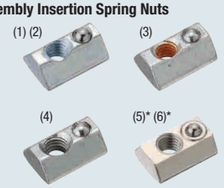


Welded Leaf Springs maintains position (even in vertical extrustions).

Part Number Example

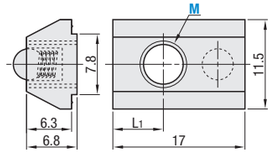
Part Number	-	M
HNTAP6	-	6

Post-Assembly Insertion Spring Nuts



RoHS10

HNTP6 1010 Carbon Steel
PACK-HNTP6 1010 Carbon Steel, 100/pkg.
HNTPV6 Thread Locking Adhesive Type, 1010 Carbon Steel
HNTPZ6 Thread Locking Resin Coating Type, 1010 Carbon Steel
SHNTP6 316 Stainless Steel, Sintering
PACK-SHNTP6 316 Stainless Steel, Sintering, 100/pkg.

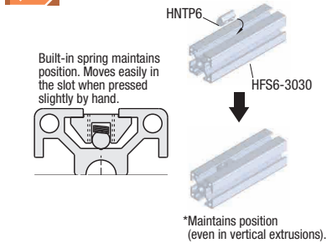


Type	Material			
	Body	Ball	Spring	Surface Treatment
(1) HNTP6 (2) PACK-HNTP6 (3) HNTPV6 (4) HNTPZ6	1010 Carbon Steel	304 Stainless Steel	Spring Steel (ASTM A228)	Trivalent Chromate
(5) SHNTP6* (6) PACK-SHNTP6*	316 Stainless Steel (Sintering)		304 Stainless Steel	—

* Electrically conductive

Reference Tightening Torque (N.m)	
M	1010 Carbon Steel / 316 Stainless Steel (Sintering)
6	11.7

Application Example



Part Number	M				L_1
HNTP6 (1010 Carbon Steel)	3	4	5	6	6
HNTPV6 (Thread Locking, 1010 Carbon Steel)				6	
HNTPZ6 (Thread Locking, 1010 Carbon Steel)					
SHNTP6 (316 Stainless Steel, Sintering)	3	4	5	6	6.5

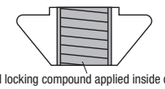
Bulk Packages

Part Number	M				L_1
PACK-HNTP6 (1010 Carbon Steel, 100/pkg.)	3	4	5	6	6
PACK-SHNTP6 (316 Stainless Steel , Sintering, 100/pkg.)					6.5

Part Number Example

Part Number	-	M
HNTP6	-	6

Thread Locking Type



Nuts with thread locker applied on the inside of tap. Reduce 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 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 screws and nuts.

	Features	Loosening torque after tightening (1st time)	Remarks
Without Thread Locker	—	8.2 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.	11.7 N·m	Test Conditions: Measured value (HNTPV6-6) when a screw is loosened after drying for 72 hours at room temperature (25 °C), after tightened at 11.7 N·m.
Thread Locking Resin Coating Type	– Can be used repeatedly. (Thread locking effect decreases after repeated use.) – Thread locking effect is immediately seen right after tightening.	9.4 N·m	Thread locking effect decreases after repeated use. Loosening Torque at 5 Repeats: 8.7 N·m Measurement with HNTAZ6-6

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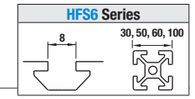
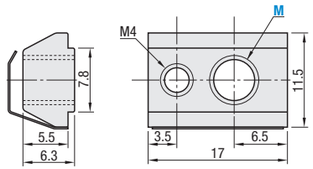
For HFS6 Series Aluminum Extrusions 30, 50, 60, 100 Square



Post-Assembly Insertion Lock Nuts with Leaf Springs

RoHS10

HNTRP6



Reference Tightening Torque (N-m)	
M	1010 Carbon Steel
6	11.7

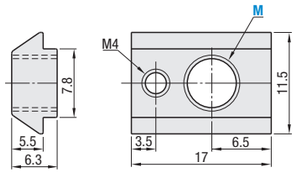
Part	Material	Surface Treatment
Main Body	1010 Carbon Steel	Trivalent Chromate
Wing Part	304 Stainless Steel	—

Part Number	M	Accessories
HNTRP6	6	M4x4 Set Screw for Locking Set Screw 1 pc.

Post-Assembly Insertion Lock Nuts

RoHS10

HNTR6 1010 Carbon Steel
HNTRSN6 316 Stainless Steel, Sintering
HNTRZ6 1010 Carbon Steel



Reference Tightening Torque (N.m)	
M	1010 Carbon Steel / 316 Stainless Steel (Sintering)
6	11.7

Type	Material	Surface Treatment
HNTR6	1010 Carbon Steel	Trivalent Chromate
HNTRZ6		
HNTRSN6	316 Stainless Steel (Sintering)	—

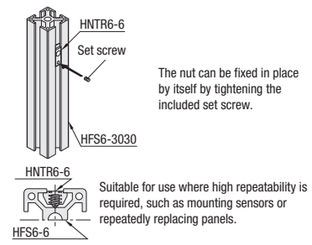
Part Number	M				Accessories
HNTR6 1010 Carbon Steel	3	4	5	6	M4x6 for Locking Set Screw 1 pc.
HNTRSN6 316 Stainless Steel, Sintering					
HNTRZ6 1010 Carbon Steel				6	

Part Number Example

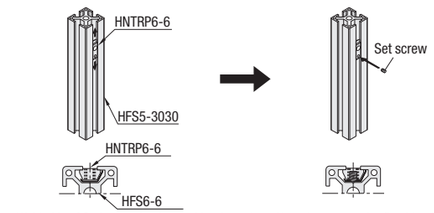
Part Number	-	M
HNTR6	-	6

Application Example

Post-Assembly Insertion Lock Nuts (HNTR)



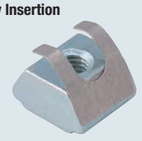
Post-Assembly Insertion Lock Nuts with Leaf Springs (HNTRP)



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

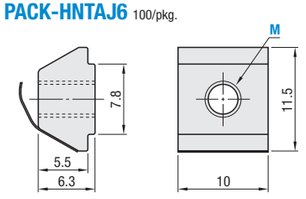
Also, the nut can be fixed in place by tightening the included set screw.

Post-Assembly Insertion Short Nuts



RoHS10

HNTAJ6
PACK-HNTAJ6 100/pkg.



Part	Material	Surface Treatment
Main Body	1010 Carbon Steel	Trivalent Chromate
Wing Part	301 Stainless Steel	—

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

Part Number	M			
HNTAJ6 PACK-HNTAJ6	3	4	5	6

Part Number Example

Part Number	-	M
HNTAJ6	-	6