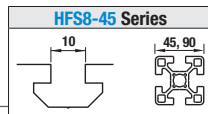
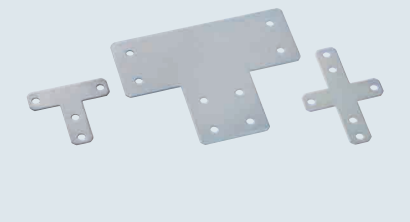


Brackets

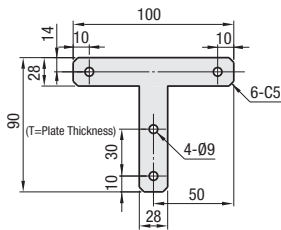
HFS8-45 Series



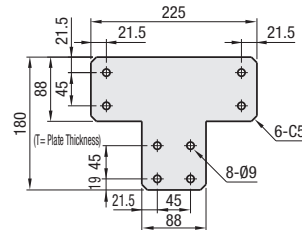
Sheet Metal Brackets



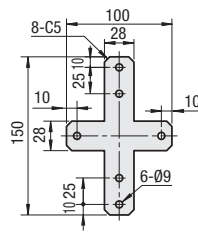
HPTTS8 SHPTTS8



HPTTD8-45



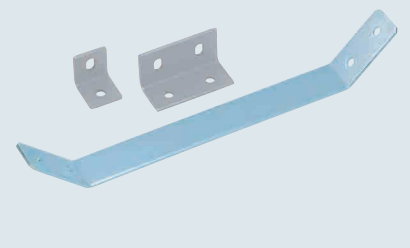
HPTPS8



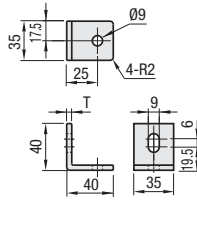
Type	Material	Surface Treatment
HPTTS	Low Carbon Steel	Bright Chromate Plating
HPTTD		
HPTPS		
SHPTTS	304 Stainless Steel	—

Part Number	Mass g	T	Applicable Screw / Nut					
			Screw	Quantity	Nuts			
HPTTS8*	103	3.2	M8-15	4	M8	4		
SHPTTS8*		3						
HPTTD8-45	633	3.2					8	8
HPTPS8*	135	3.2					6	6

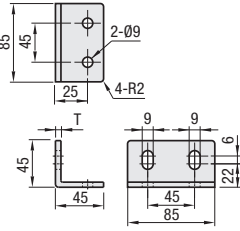
Sheet Metal Brackets



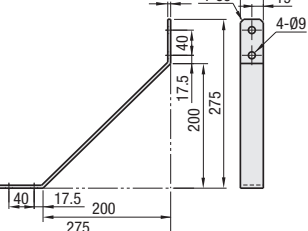
HPTBS8 SHPTBS8



SHPTBD8-45



HPTGS8

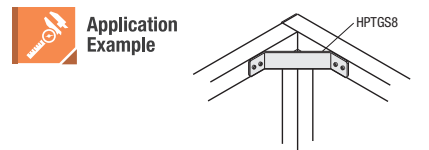


Type	Material	Surface Treatment
HPTBS	Low Carbon Steel	Bright Chromate Plating
HPTGS		
SHPTBS	304 Stainless Steel	—
SHPTBD		

Part Number	Mass g	T	Applicable Screw / Nut					
			Screw	Quantity	Nuts			
HPTBS8*	83	4.5	M8-15	2	M8	2		
SHPTBS8*		4						
SHPTBD8-45	234	4					4	4
HPTGS8*	560	4.5					4	4

Part Number Example: SHPTBD8-45

Part Number Alterations: SHPTBD8-45 - SET

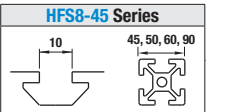


Alteration	Code	Spec.	Part Number	
Applicable Screws & Nuts Set	SET	Applicable screws and nuts for mounting each plate on extrusions come in a set.	HPTTS8*	
			SHPTTS8*	
			HPTTD8-45	
			HPTPS8*	
			HPTBS8*	
			SHPTBS8*	
		Low Carbon Steel	Screw: CBM Nut: HNTT	HPTPS8*
		304 Stainless Steel	Screw: SCB Nut: HNTTSN	SHPTBS8*
				SHPTBD8-45
				HPTGS8*

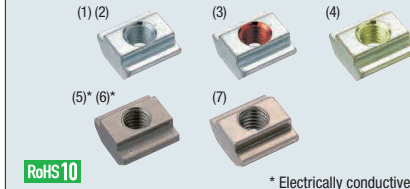
Not RoHS compliant when -SET is specified.

Pre-Assembly Insertion Nuts / Stoppers for Aluminum Extrusions

For HFS8-45 Series Aluminum Extrusions 45, 50, 60, 90 mm Square



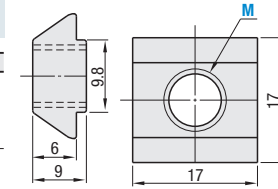
Pre-Assembly Insertion Nuts – for Assembly Extrusions



RoHS 10 * Electrically conductive

Type	Material	Surface Treatment
(1) HNTT8	1010 Carbon Steel	Trivalent Chromate
(2) PACK-HNTT8		
(3) HNTTV8		
(4) HNTTZ8		
(5) HNTTSN8*	316 Stainless Steel (Sintering)	—
(6) PACK-HNTTSN8		
(7) HNTTSS8		

- HNTT8 1010 Carbon Steel
- PACK-HNTT8 1010 Carbon Steel
- HNTTV8 Thread Locking Adhesive / 1010 Carbon Steel
- HNTTZ8 Thread Locking Resin Coating / 1010 Carbon Steel
- HNTTSN8 316 Stainless Steel, Sintering
- PACK-HNTTSN8 316 Stainless Steel, Sintering
- HNTTSS8 303 Stainless Steel

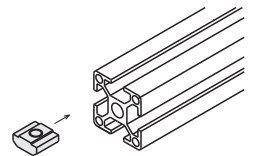


Reference Tightening Torque (N·m)	
M	1010 Carbon Steel Equivalent 316 Stainless Steel Equivalent (Sintering) 303 Stainless Steel
8	23.5

Application Example

Pre-Assembly Insertion Nuts
Aluminum Extrusions
Nuts are pre-inserted in the aluminum extrusion.

HNTU
HNTUV
HNTUZ
SHNTU
HNTT
HNTTV
HNTTZ
HNTTSN
HNTTSS
HNTM

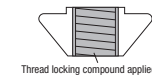


Part Number	M
HNTT8 1010 Carbon Steel	4 5 6 8
HNTTV8 Thread Locking / 1010 Carbon Steel	8
HNTTZ8 Thread Locking / 1010 Carbon Steel	8
HNTTSN8 316 Stainless Steel Equivalent, Sintering	4 5 6 8
HNTTSS8 303 Stainless Steel	8

When ordering HNTT8 without specifying M, HNTT8-8 is selected automatically.

Part Number Example: HNTT8 - 8

Thread Locking Type



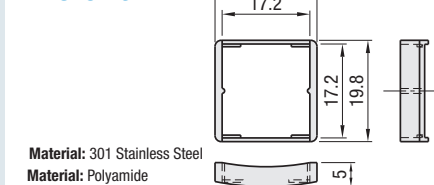
Nuts have thread locker applied on the inside of tap. It reduces loosening caused by vibration during transportation and operation of equipment.
Thread Locking Adhesive: A microencapsulated anaerobic adhesive prevents thread loosening. Note that it requires a set up time (72 hours at room temperature 25°C). The locking 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.

Without Thread Locker	Features	Loosening Torque After Tightening (1st Time)	Remarks
		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 (HNTTV8-8) when a bolt is loosened after drying for 72 hours at room temperature (25°C), after tightened at 23.5 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.	21.8 N·m	Thread locking effect decreases after repeated use. 5th loosening torque: 20.3 N·m Measurement at HNTTZ8-8

Pre-Assembly Insertion Stoppers



HNST8-45



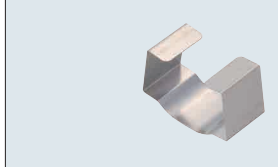
Part Number Example: HNST8-45

Application Example

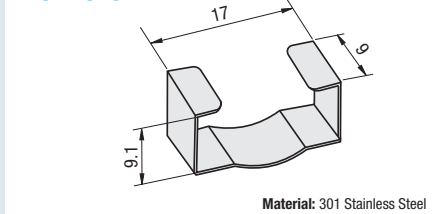
Hold pre-assembly insertion nut temporarily in the extrusion. Nuts maintain position.

Part Number	Applicable Pre-Assembly Insertion Nuts	Color
HNST8-45	HNTT8 HNTTV8 HNTTZ8 HNTTSN8 HNTTSS8	Gray

Metal Stoppers for Pre-Assembly Insertion Nuts



SHNST8



Part Number Example: SHNST8

Application Example

*Can also be used with Pre-Assembly Insertion Bolts.

Part Number	Applicable Pre-Assembly Insertion Nuts
SHNST8	HNTT8 HNTTV8 HNTTZ HNTTSN8 HNTTSS8