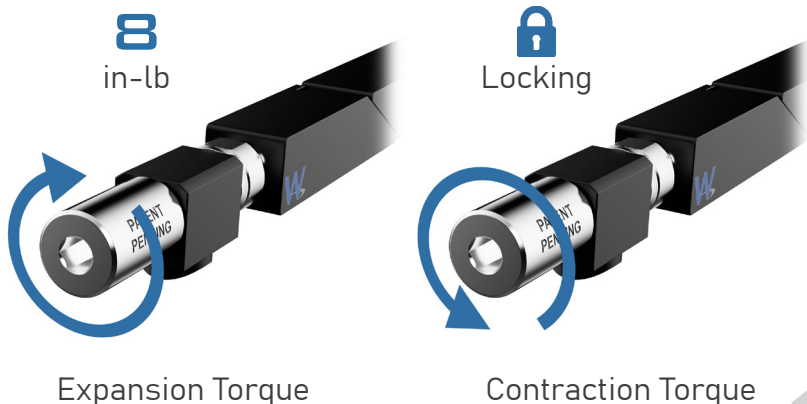


The Torque Limiting SOLIDWEDGE™ limits torque as the SOLIDWEDGE™ is expanded, creating consistent clamping forces for maintainers without the need for torque drivers or specialized tools. The slip clutch ratchet mechanism prevents over-tightening and provides audible feedback when the specified torque is reached. Torque is not limited in reverse, ensuring retraction of the SOLIDWEDGE™.

OPTIMIZED FOR 2 LEVEL MAINTENANCE



TORQUE TOLERANCE

8 ±1 in-lb

FEATURES

- Torque Limited Expansion
- Full Torque Contraction
- Ideal for 2 Level Maintenance (2LM)
- Audible + Tactile Ratchet Feedback
- RoHS + REACH + ITAR Compliant
- Low Profile Design

MECHANISM MATERIALS

Screw, Pin, Clip:
300 Series Stainless Steel
(passivated per AMS - 2700)

Drive Head, Flat Washer: Nitronic 60

Spring: 17-7 SS

Lubrication: MIL-PRF-27617, Vacuum

WEDGELOCK MATERIALS

Active Wedge Segments: 6061-T6511

Front Mounting Block: 6061-T6511

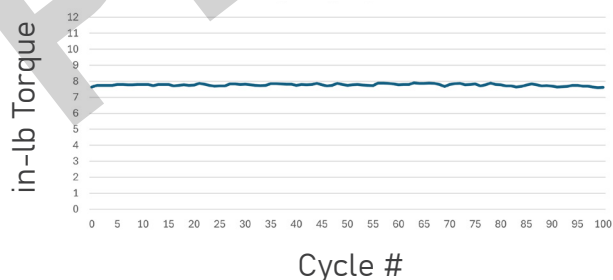
Lock Nut: Nitronic 60

TORQUE LIMITING SLIP CLUTCH



US PATENT
PENDING

TIGHTENING TORQUE



The SOLIDWEDGE™ is a breakthrough technology that allows conduction cooled modules to operate at higher thermal loads in higher temperature environments.

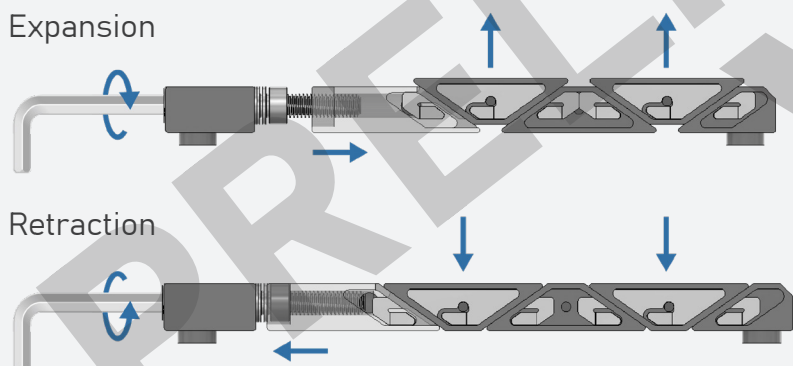
OPTIMIZED FOR VITA 48 AND CPCI



**US PATENT
8,456,846**

POSITIVE RETRACTION

Adjacent wedge segments are connected to prevent a stuck wedge lock. Turning the drive screw counterclockwise retracts the threaded drive wedge, pulling each of the connected segments down to their relaxed position.



SW5 Pictured

THERMAL RESISTANCE

~0.17 °C/W Resistance per Card Edge

FEATURES

- Torque Limiting Slip Clutch Ratchet
- 600 lb Clamping Force
- Mass: 12 g
- Belleville Washer
- #6-32 Drive Screw
- Zero Insertion Force
- Low Profile Design
- Self-Retracting Segments
- Superior Plating Endurance
- Optimized for VITA Specifications
- Models Available for Download

SELF LOCKING THREADS

The EMUGE Self-Lock™ locking feature is integrated into the lock nut and works without any additional mechanical or chemical locking devices, therefore temperature variations do not noticeably affect it. This eliminates the need for secondary locking features and reduces FOD. <https://info.emuge.com/self-lock>

3D MODEL:

<https://a360.co/4rajflg>

The SOLIDWEDGE™ design provides three times the thermal contact area of conventional wedge locks. The design also features a larger screw size, which creates higher contact forces between the heat frame and cold wall surfaces, significantly improving thermal performance.

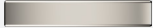
The interconnected links of the SOLIDWEDGE™ feature positive retraction of all segments without the use of springs or other mechanisms.

PART NUMBER BUILDER

Required

Additional Specifications

SWT3		26		270		250		XXX		XX		30D		B075	
Wedge:		Spacing:		Height:		Width:		Hex:		Finish:		1		2	
				0.270"		0.250"						30° WEDGE SEGMENTS			
		2.6" MOUNTING HOLE SPACING													
SWT - SOLIDWEDGE								3/32" HEX KEY - [332]							
T - TORQUE LIMITING								M2.5 HEX KEY - [M25]							
3 - ACTIVE SEGMENTS								9/64" HEX KEY - [964]							
												BOSS LENGTH 0.075"			

	BLACK ANODIZE PER MIL-A-8625, TYPE II, CLASS 2	[BA]
	HARD BLACK ANODIZE PER MIL-A-8625, TYPE III, CLASS 2	[BH]
	ELECTROLESS NICKEL	[EN]
	HARD BLACK ANODIZE W/ TEFLON	[BHT]

See last page for more plating info

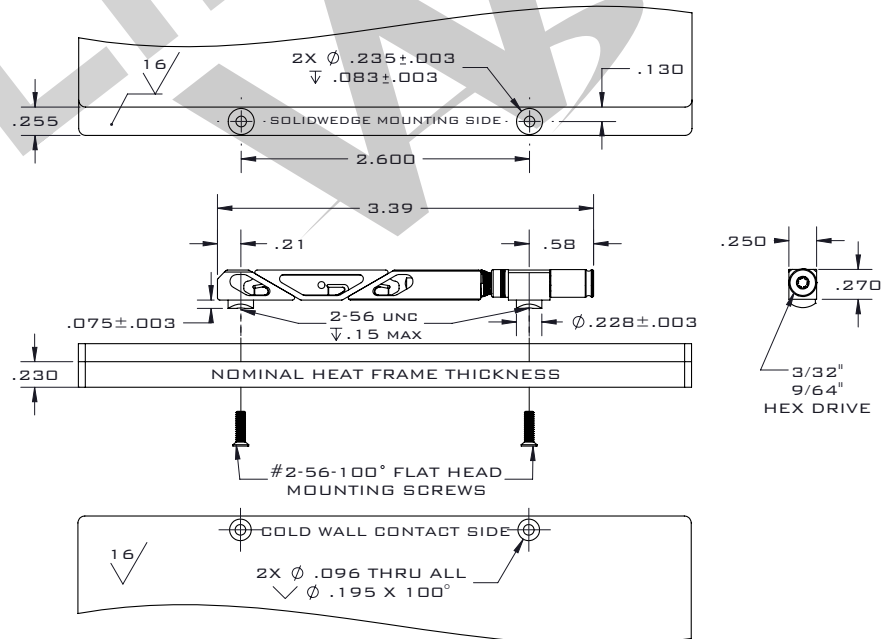
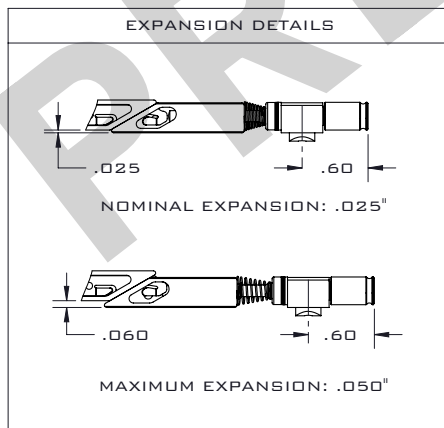
RECOMMENDED PART NUMBER: SWT3-26-270-250-332-BA-30D-B075

MOUNTING DETAILS

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES.

TOLERANCES:
TWO PLACE DECIMAL: ±.01
THREE PLACE DECIMAL: ±.005



Standard material specs for WaveTherm's SOLIDWEDGE™, injector/ejectors, and OpenCOTS products.

ASSEMBLY HARDWARE



300 SERIES STAINLESS STEEL

Compliance	Specification	Use Case
✓ DFARS	Passivated per	Standard material for screws, nuts, washers, and SOLIDWEDGE™ straps in WaveTherm product assemblies.
✓ RoHS	AMS-2700	
✓ REACH		

ALUMINUM PLATING



BLACK ANODIZED - BA

Compliance	Specification	Properties and Use Case
✓ RoHS	MIL-A-8625	Provides reliable corrosion resistance and durability. Ideal for use in demanding applications requiring high insertion/extraction counts.
✓ REACH	Type II Class 2	



BLACK ANODIZED HARDENED - BH

Compliance	Specification	Properties and Use Case
✓ RoHS	MIL-A-8625	Provides superior corrosion resistance and high durability. Ideal for use in harsh and rugged environments with high insertion/extraction counts.
✓ REACH	Type III Class 2	



ELECTROLESS NICKEL - EN

Compliance	Specification	Properties and Use Case
✓ RoHS	MIL-C-26074	Provides excellent thermal performance and excellent electrical conductivity. Ideal for high-performance thermal management.
✓ REACH	Class 4	
	Grade B	

*varies based on plating vendor's certificates of conformance

SPECIALITY ALUMINUM PLATING



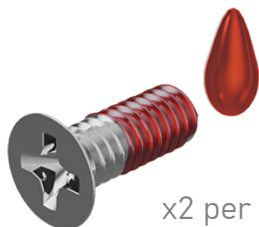
BLACK ANODIZED HARDENED WITH TEFLON - BHT

Compliance	Specification	Properties and Use Case
✓ RoHS	AMS-2482	Provides superior corrosion resistance, high durability and increased lubricity. Ideal for use in harsh and rugged environments with high insertion/extraction counts.
✓ REACH	Type III Class 2	

Images for demonstration only

SOLIDWEDGE™ INSTALLATION

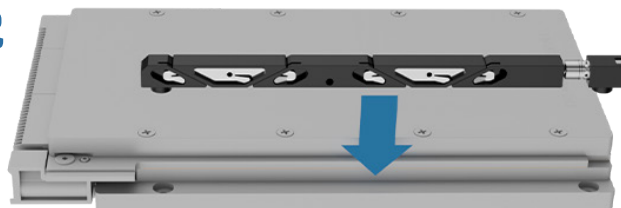
1



x2 per SOLIDWEDGE

Apply Loctite 2760 to #2-56-100° flat head mounting screws (not included)

2



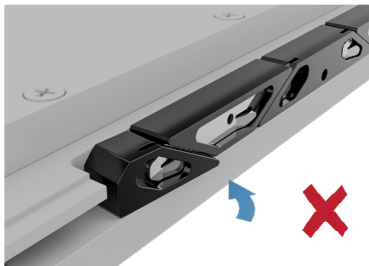
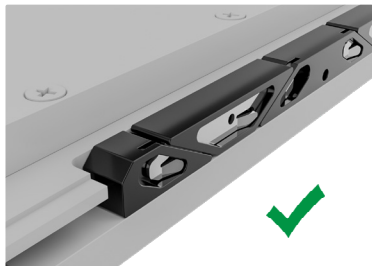
Align SOLIDWEDGE to mounting hole locations

3

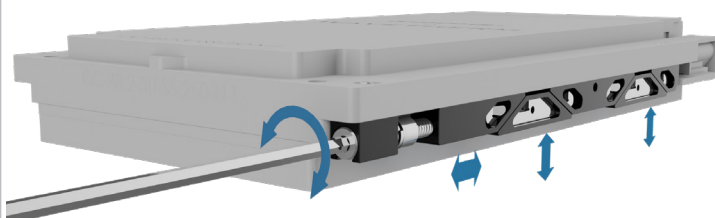


Install screws and torque to 2 in-lbs. Ensure mounting screw doesn't hit drive screw.
(reference mounting drawing for max thread engagement)

CHECK INSTALL



Check alignment on both mounting blocks after torquing and press to straighten if necessary.



Ensure SOLIDWEDGE is functioning correctly by expanding and contracting with a hex key.

WARNING:



SOLIDWEDGES are not intended to be mounted directly to PCBs. The opposing force of the mounting blocks may result in board damage.