WAVETHERM TORQUE LIMITING SOLIDWEDGE SWT3-32-270-250-XXX-XX-30D-B075

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



Expansion Torque

Contraction Torque

TORQUE LIMITING SLIP CLUTCH



TORQUE TOLERANCE 8 ±1 in-lb

FEATURES

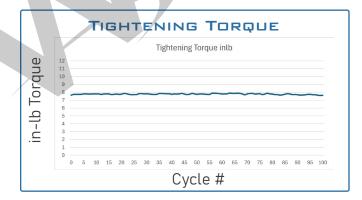
Torque Limited Expansion Full Torque Contraction Ideal for 2 Level Maintenance (2LM) Audible + Tactile Ratchet Feedback RoHS + REACH + ITAR Compliant Low Profile Design

MECHANISM MATERIALS

Screws, Nuts, Clip, Washers: 300 Series Stainless Steel (passivated per AMS - 2700)

Drive Head: Nitronic 60

Lubrication: MIL-PRF-27617, Vacuum



US PATENT PENDING



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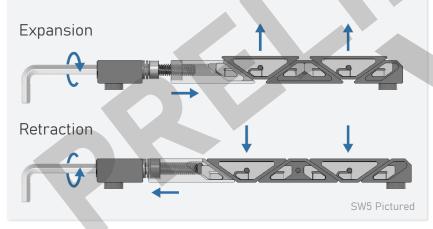
The SOLIDWEDGE[™] is a breakthrough technology that allows conduction cooled modules to operate at higher thermal loads in higher temperature environments.

OPTIMIZED FOR VITA 48 AND CPCI



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.



THERMAL RESISTANCE

~0.17 °C/W Resistance per Card Edge

FEATURES

Torque Limiting Slip Clutch Ratchet 600 lb Clamping Force Mass: 14 g #6-32 Drive Screw Zero Insertion Force Low Profile Design Self-Retracting Segments Superior Plating Endurance Optimized for VITA Specifications Models Available for Download

WEDGELOCK MATERIALS

Active Wedge Segments: 6061-T6511

Front Mounting Block: 6061-T6511

Screws, Nuts, Washers: 300 Series Stainless Steel (passivated per AMS - 2700)

Helicoil Wire Insert: Nitronic 60

3D MODEL: https://a360.co/4eVoJzH

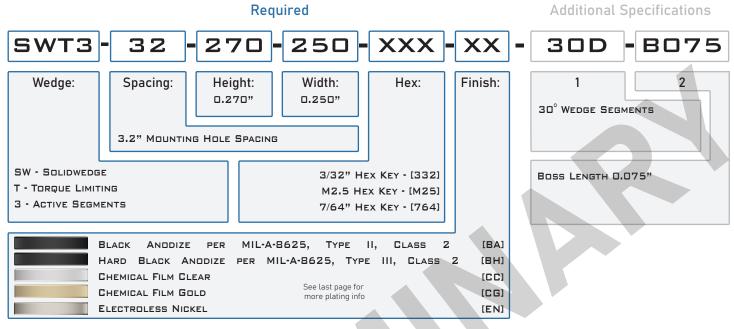
The SOLIDWEDGE[™] design provides three times the thermal contact area of conventional wedge locks. The design also features a larger screw size, which creates higher contact forces between the heat frame and cold wall surfaces, significantly improving thermal performance.

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



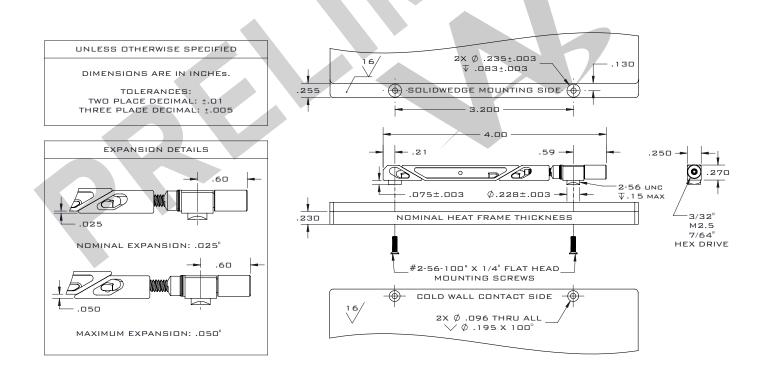
WAVETHERM TORQUE LIMITING SOLIDWEDGE SWT3-32-270-250-XXX-XX-30D-B075

PART NUMBER BUILDER



RECOMMENDED PART NUMBER: SWT3-32-270-250-332-BA-30D-B075

MOUNTING DETAILS





WAVETHERM-

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

ASSEMBLY HARDWARE



300 SERIES STAINLESS STEEL Compliance Specification

DFARS RoHS

REACH

Passivated per AMS-2700

Use Case

Standard material for screws, nuts, washers, and SOLIDWEDGE[™] straps in WaveTherm product assemblies.

ALUMINUM PLATING



BLACK ANODIZED - BA Compliance Specification

MIL-A-8625 RoHS Type II REACH Class 2

Properties and Use Case

Provides reliable corrosion resistance and durability. Ideal for use in demanding applications requiring high insertion/extraction counts.



BLACK ANODIZED HARDENED - BH

Compliance		Specification
5	RoHS REACH	MIL-A-8625 Type III
•		Class 2

Properties and Use Case

Provides superior corrosion resistance and high durability. Ideal for use in harsh and rugged environments with high insertion/extraction counts.



CHEMICAL FILM CLEAR - CC

Compliance Specification MIL-DTL-5541 RoHS Type II REACH Class 1A Clear

Properties and Use Case

Provides good corrosion resistance and electrical conductivity with lower durability. Not ideal for high insertion/extraction counts.



CHEMICAL FILM GOLD - CG

Compliance Specification

Type I

Gold

Х RoHS X REACH MIL-DTL-5541 MIL-C-5541 or* Class 1A Class 1A Gold

Properties and Use Case

Provides good electrical conductivity with lower durability. Not suited for high insertion/extraction counts.

ELECTROLESS NICKEL - EN



Specification MIL-C-26074 AMS-C-26074 Class 4 or* Class 4 REACH Grade B Grade B

Properties and Use Case

Provides excellent thermal performance and excellent electrical conductivity. Ideal for highperformance thermal management.

*varies based on plating vendor's certificates of conformance

