

TORQUE LIMITING SOLIDWEDGE[™] SWT5-455-275-300-XXX-XX-30D-B075

The Torque Limiting SOLIDWEDGETM limits torque as the SOLIDWEDGETM 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 SOLIDWEDGETM.

OPTIMIZED FOR 2 LEVEL MAINTENANCE



Expansion Torque

Contraction Torque

TORQUE LIMITING SLIP CLUTCH





TORQUE TOLERANCE

8 +1 in-lb

FEATURES

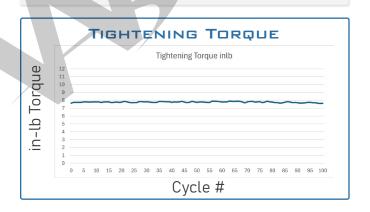
Torque Limited Expansion
Full Torque Contraction
Ideal for 2 Level Maintenance (2LM)
Audible + Tactile Ratchet Feedback
RoHS + REACH + ITAR Compliant
Low Profile Design

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





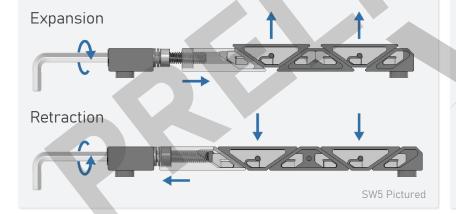
The SOLIDWEDGE $^{\text{TM}}$ is a breakthrough technology that allows conduction cooled modules to operate at higher thermal loads in higher temperature environments.

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

0.12 °C/W Resistance per Card Edge

FEATURES

Torque Limiting Slip Clutch Ratchet 800 lb Clamping Force
Mass: 20 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/3T2bCE0

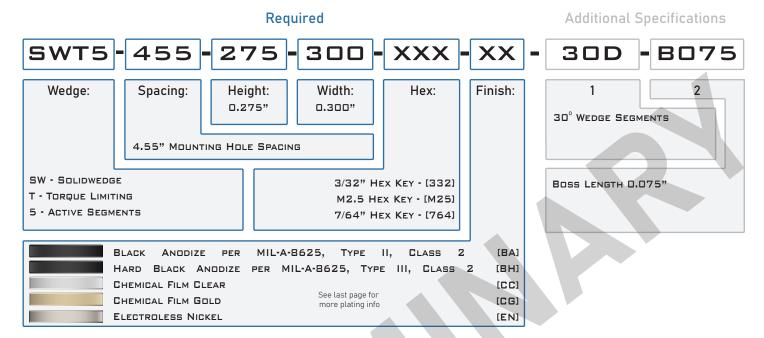
The SOLIDWEDGE[™] design provides three times the thermal contact area of conventional wedge locks. The design also features a larger screw size, which creates higher contact forces between the heat frame and cold wall surfaces, significantly improving thermal performance.

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



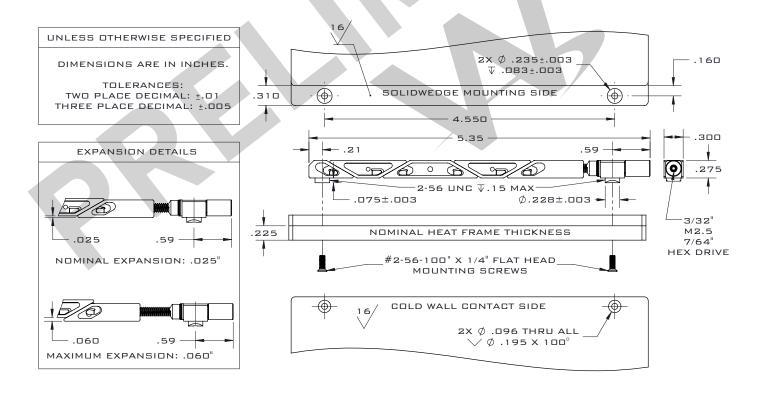


PART NUMBER BUILDER



RECOMMENDED PART NUMBER: SWT5-455-275-300-332-BA-30D-B075

MOUNTING DETAILS







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

ASSEMBLY HARDWARE



300 SERIES STAINLESS STEEL

Compliance Specification Use Case

Passivated per Standard material for screws, nuts, washers, **DFARS**

and SOLIDWEDGE™ straps in WaveTherm product AMS-2700 RoHS **REACH**

assemblies.

ALUMINUM PLATING



BLACK ANODIZED - BA

Class 2

Compliance Specification Properties and Use Case

MIL-A-8625 Provides reliable corrosion resistance and durability. RoHS Type II Ideal for use in demanding applications requiring high **REACH**

insertion/extraction counts.



BLACK ANDDIZED HARDENED - BH

Compliance Specification Properties and Use Case

MIL-A-8625 Provides superior corrosion resistance and high RoHS

durability. Ideal for use in harsh and rugged Type III **REACH**

environments with high insertion/extraction counts.



CHEMICAL FILM CLEAR - CC

Class 2

Compliance Specification Properties and Use Case

MIL-DTL-5541 Provides good corrosion resistance and electrical RoHS

Type II conductivity with lower durability. Not ideal for high **REACH**

> Class 1A insertion/extraction counts.



CHEMICAL FILM GOLD - CG

Clear

Compliance Specification

MIL-DTL-5541 MIL-C-5541 RoHS

> Type I or* Class 1A

> > Gold

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 Compliance

MIL-C-26074 AMS-C-26074 **RoHS**

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



REACH