

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

OPTIMIZED FOR VITA 48.2 AND CPCI



US PATENT
8,456,846

THERMAL RESISTANCE

0.1 °C/W Resistance per Card Edge

FEATURES

- 1000 lb Clamping Force
- Mass: 19 g
- Helicoil Insert
- #6 Drive Screw
- Zero Insertion Force
- Low Profile Design
- Self-Retracting Segments
- Superior Plating Endurance
- Optimized for Vita Specifications
- Models Available for Download
- Torque to 6-10 in-lbs

MATERIALS

Active Wedge Segments: 6061-T6511

Front Mounting Block: 7075-T7351

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

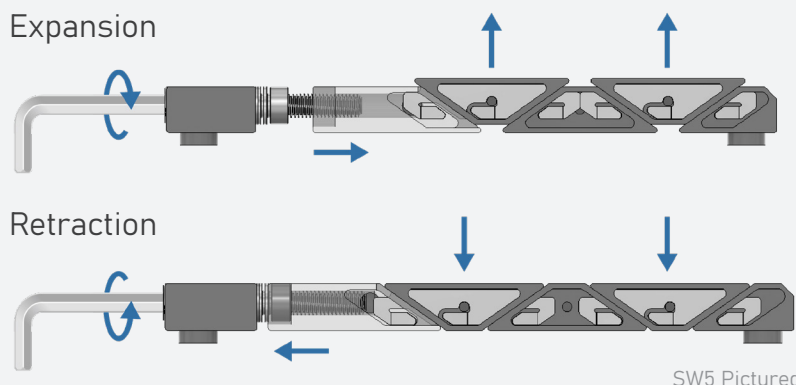
Helicoil Wire Insert: Nitronic 60

3D MODEL:

<https://a360.co/3wie153>

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

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

| | | | | | | | | |
|--|---|---|------------------|-------------------------|-----------|-------------------------|-------------------------|-----------|
| SW5 | 475 | 275 | 300 | XXX | XX | 30D | B075 | YY |
| Wedge: | Spacing: 4.75" MOUNTING HOLE SPACING | Height: 0.275" | Width: 0.300" | Hex: | Finish: | 1 30° WEDGE SEGMENTS | 2 BOSS LENGTH 0.075" | 3 |
| SW - SOLIDWEDGE 5 - ACTIVE SEGMENTS | | 3/32" HEX KEY - [6332] M2.5 HEX KEY - [6M25] 7/64" HEX KEY - [6764] | | | | | | |
| <ul style="list-style-type: none"> BLACK ANODIZE PER MIL-A-8625, TYPE II, CLASS 2 [BA] HARD BLACK ANODIZE PER MIL-A-8625, TYPE III, CLASS 2 [BH] CHEMICAL FILM PER MIL-C-5541, CLASS 1A, CLEAR [CC] CHEMICAL FILM PER MIL-C-5541, CLASS 1A, GOLD, NON-ROHS [CG] ELECTROLESS NICKEL PER MIL-C-26074, CLASS 4, GRADE B, BRIGHT [EN] | | [BV] - BELLEVILLE WASHERS | | [NL] - NYLOK LOCK PATCH | | | | |

RECOMMENDED PART NUMBER: SW5-475-275-300-6332-BA-30D-B075-BV

MOUNTING DETAILS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
TOLERANCES:
TWO PLACE DECIMAL: ±.01
THREE PLACE DECIMAL: ±.005

