

1. Description



Scru-lokt Stainless Steel Banding Buckles are robust fastening components designed for use with stainless steel banding to create high-strength, adjustable clamps. Featuring an integrated screw (worm-gear) mechanism, these buckles allow for precise tensioning using simple hand tools like a screwdriver or hex wrench. Constructed from durable stainless steel, Scru-lokt buckles provide excellent resistance to corrosion, weathering, and vibration, making them ideal for securing items in demanding industrial, marine, and outdoor environments.

2. Key Features

- **High Clamping Force:** Screw mechanism allows for significantly higher tension compared to standard clip/buckle styles.
- **Screw Tensioning:** Enables controlled and precise tension application using common tools (e.g., hex wrench, screwdriver).
- **Vibration Resistant:** The screw lock design maintains tension effectively even under vibration.
- **Stainless Steel Construction:** Offers excellent durability and resistance to corrosion, chemicals, UV, and extreme temperatures. Available in various grades for different environmental needs.
- **Adjustable & Potentially Reusable:** Allows for tension adjustments and, in many cases, can be loosened and reused (depending on application and condition).
- **Easy Installation:** Simple to apply tension without requiring specialized heavy-duty banding tools.
- **Versatile:** Suitable for various banding widths.

3. Associated Products

- **Stainless Steel Banding:** Must match the buckle's specified width, thickness compatibility, and desired material grade (201, 304, 316).
- **Tensioning Tool:** Hex wrench, nut driver, or screwdriver matching the buckle's screw head.
- **Band Cutting Tool:** Handheld shears or cutters suitable for stainless steel banding.

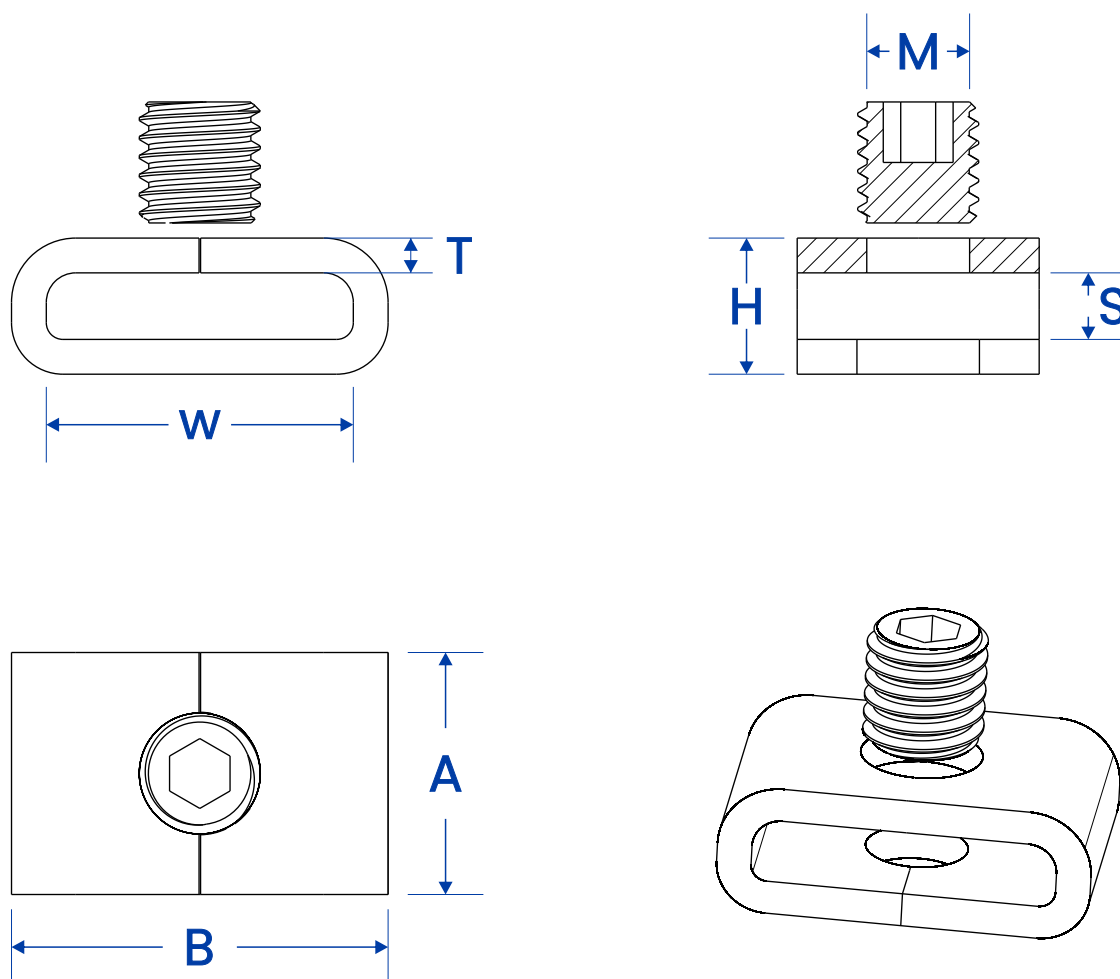
4. Technical Data

- **Material:**
 - **Buckle Body:** Typically Stainless Steel Type 201, Type 304 (SS304 / UNS S30400), or Type 316 (SS316 / UNS S31600). Note: Type 201 offers good strength, Type 304 provides general corrosion resistance, Type 316 offers superior corrosion resistance for marine/chemical environments.
 - **Screw Component:** Often Stainless Steel Type 410 (hardened for strength) or similar grade compatible with the buckle body.
- **Buckle Type:** Screw Lock Buckle.
- **Compatible Band Widths:** Designed for specific standard stainless steel banding widths: 1/4" (6.4mm), 3/8" (9.5mm), 1/2" (12.7mm), 5/8" (15.9mm), 3/4" (19.1mm).
- **Compatible Band Thickness:** Suitable for use with standard banding thicknesses: 0.015" (0.38mm) to 0.030" (0.76mm).
- **Tensioning Screw Type:** Typically 5/16" (8mm) Hex Head.
- **Operating Temperature Range:** Consistent with stainless steel limits, typically -80°C to +538°C (-112°F to +1000°F), assuming all components are metallic.
- **Resistance:** Excellent resistance to corrosion (grade-dependent), UV radiation, vibration, and weathering.

5. Installation Guidance

- **Cut Band:** Measure and cut the required length of stainless steel banding using appropriate cutters. Allow sufficient length for overlap and tensioning.
- **Thread Buckle:** Feed one end of the band through the appropriate slots in the Screw-Lock buckle (follow manufacturer's specific threading path, typically under the screw housing).
- **Position:** Wrap the band and buckle assembly around the object(s) to be secured.
- **Feed Tail:** Insert the free end (tail) of the band through the buckle's remaining slot/opening and position it under the screw mechanism's pressure point or bridge.
- **Apply Tension:** Using the correct tool (hex wrench/screwdriver), turn the tensioning screw clockwise. The screw engages the band, pulling it tight to create clamping force. Continue tensioning until the desired tightness is achieved.
- **Secure Tail (Optional but Recommended):** Once tensioned, the excess band tail can be cut, leaving approximately 1-2 inches (25-50mm). This tail should then be folded back neatly over the buckle.
- **Safety:** Always wear appropriate safety gloves (cut-resistant) and eye protection during installation, as banding and cut edges can be sharp.

6. Specifications



Width		Dimensions(mm)							Pack Quantity
inch	mm	A	B	H	S	W	T	M	
3/8	9.5	11.2	14.2	6.8	3.2	10.5	1.8	6.0	100
1/2	12.7	15.0	17.8	7.1	3.5	14.0	1.8	8.0	100
5/8	16.0	16.0	21.4	8.7	4.2	17.0	2.3	8.0	50
3/4	19.0	16.0	25.0	9.0	4.2	20.0	2.3	8.0	50

The above measurement data may have errors. All is subject to the actual situation.

7. Applications

Used in conjunction with stainless steel banding for creating secure clamps in various applications:

- **Hose Clamping:** Securing industrial, automotive, or hydraulic hoses.
- **Cable Management:** Bundling large cables or securing cables/conduit to poles or structures.
- **Sign & Signal Mounting:** Attaching signs, traffic signals, or enclosures to round, square, or irregular poles.
- **Pipe Bundling & Support:** Grouping pipes or securing insulation jacketing.
- **Maintenance & Repair (MRO):** General fastening and temporary or permanent repairs in industrial settings.
- **Marine & Offshore:** Securing equipment and fixtures in corrosive saltwater environments (SS316 recommended).
- **Pole/Mast Attachments:** Mounting hardware, antennas, or enclosures.
- **Construction:** Various fastening needs on site.

Disclaimer: The information provided in this datasheet is intended as a general guide. Specific performance characteristics can vary based on the application conditions, the banding used, and the specific product variant. Users should evaluate the product suitability for their specific requirements. Manufacturer reserves the right to change specifications without notice.