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Wolverine 10125-M

Wolverine 10125-M Spindle Instruction Manual

Model: 10125-M

1. Introduction

This manual provides essential information for the proper use, installation, and maintenance of the Wolverine 10125-M Spindle. Please read this manual thoroughly before using the product to ensure safe and efficient operation.
The Wolverine 10125-M is an M6-1 x 40 Spindle, typically supplied in packages of 10 units. It is designed for various industrial and mechanical applications, often used as a component in workholding devices such as toggle clamps.

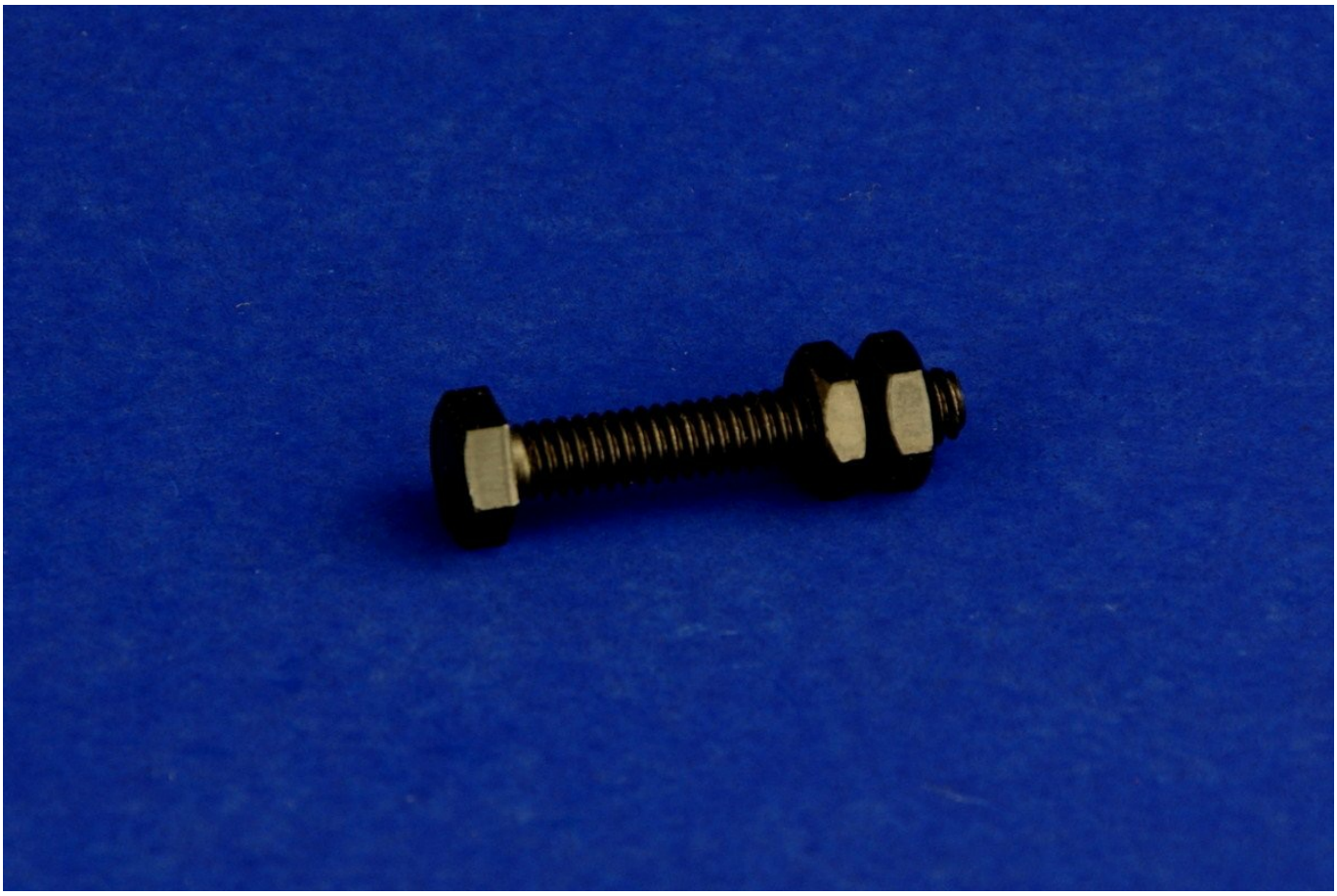


Figure 1: Wolverine 10125-M Spindle. This image displays the M6-1 x 40 spindle, which is a black, threaded metal rod with a hexagonal head on one end. Two hexagonal nuts are threaded onto the rod, positioned towards the opposite end from the head. The spindle is shown

against a solid blue background.

2. Key Features

- **Material Composition:** Constructed from strong, heat-resistant, nonmagnetic steel. This material is designed to be resistant to chemical and acid deterioration, ensuring durability in demanding environments.
- **Manufacturing Origin:** 100% Made in USA, indicating adherence to specific manufacturing standards and quality control.
- **Protective Coating:** Features Blue-Brite Zinc plating, which conforms to government specification QQZ325 Type I Class III environmental standards. This plating provides enhanced corrosion resistance and extends the lifespan of the spindle.

3. Product Specifications

Specification	Detail
Model Number	10125-M
Thread Size	M6-1 x 40
Material	Alloy Steel
Brand	Wolverine
Manufacturer	Wolverine Tool
ASIN	B06XNJCQYD
Date First Available	March 14, 2017

4. Setup and Installation

The Wolverine 10125-M Spindle is designed for integration into various mechanical assemblies, commonly toggle clamps. Proper installation ensures optimal performance and safety.

4.1. Required Tools

- Appropriate wrench for M6 nuts (typically 10mm or 11mm, verify with actual nuts).
- Thread locker (optional, for applications requiring high vibration resistance).

4.2. Installation Steps

1. **Identify Mounting Point:** Locate the threaded hole or mounting point on your equipment (e.g., toggle clamp arm) where the spindle is to be installed.
2. **Thread Spindle:** Carefully thread the M6-1 x 40 spindle into the designated mounting point. Ensure it threads smoothly without resistance. Do not force it if resistance is met; check for thread alignment or damage.
3. **Position Nuts:** The spindle comes with two hexagonal nuts. These nuts are typically used to secure the spindle's position and provide adjustability. Thread one nut onto the spindle from the side opposite the head, and then the second nut.
4. **Adjust and Secure:** Adjust the spindle's length and position as required for your application. Once the desired position is achieved, tighten the two nuts against each other (jam nuts) or against the mounting surface to secure the spindle firmly in place. Use a wrench to ensure adequate torque, but avoid over-tightening which could damage threads.
5. **Optional Thread Locker:** For applications subject to significant vibration, a small amount of removable thread locker can be applied to the threads before tightening the nuts to prevent loosening.

Note: *Always ensure the spindle is securely fastened before operating any equipment it is part of. Loose components can lead to instability or failure.*

5. Operating Considerations

The Wolverine 10125-M Spindle functions as a critical component in various mechanical systems, primarily for clamping, positioning, or adjusting. Its operation is dependent on the specific application it is integrated into.

5.1. General Use

- **Adjustment:** The threaded design allows for precise linear adjustment. Rotate the spindle or its associated nuts to achieve the desired extension or retraction.
- **Clamping Force:** When used in a clamp, the spindle transmits force. Ensure the spindle is correctly aligned with the workpiece to distribute clamping force evenly and prevent damage to the workpiece or the spindle itself.
- **Load Limits:** While made of strong alloy steel, the spindle has load limits. Do not exceed the design load of the overall assembly it is part of. Excessive force can lead to bending, stripping of threads, or breakage.

5.2. Safety Precautions

- Always wear appropriate personal protective equipment (PPE) when working with tools and machinery.
- Ensure the spindle and its associated components are free from defects or damage before use.
- Do not modify the spindle. Unauthorized modifications can compromise its integrity and performance.
- Keep hands and fingers clear of moving parts when the spindle is integrated into an active mechanism.

6. Care and Maintenance

Regular maintenance helps prolong the life and ensure the reliable performance of your Wolverine 10125-M Spindle.

6.1. Cleaning

- Periodically clean the spindle threads to remove accumulated dirt, debris, or metal shavings. A stiff brush or compressed air can be used.
- For stubborn grime, a mild degreaser can be applied, followed by thorough drying.

6.2. Lubrication

- Apply a thin coat of general-purpose machine oil or grease to the threads periodically, especially if the spindle is frequently adjusted or exposed to harsh environments. This reduces friction and prevents wear.

6.3. Inspection

- Regularly inspect the spindle for signs of wear, corrosion, bending, or thread damage.
- Check that the nuts are securely tightened and not cross-threaded.
- If significant wear or damage is observed, replace the spindle immediately to prevent potential failure or injury.

6.4. Storage

- Store spindles in a clean, dry environment to prevent rust and corrosion.
- Keep them organized to prevent loss or damage.

7. Troubleshooting

This section addresses common issues that may arise during the use of the Wolverine 10125-M Spindle.

Problem	Possible Cause	Solution
Spindle difficult to turn/adjust	◦ Lack of lubrication ◦ Dirt/debris in threads ◦ Cross-threaded nuts ◦ Bent spindle	◦ Apply lubricant to threads. ◦ Clean threads thoroughly. ◦ Remove nuts, inspect threads, and re-thread carefully. ◦ Replace spindle if bent.
Spindle loosens during operation	◦ Nuts not tightened sufficiently ◦ Vibration	◦ Ensure nuts are properly jam-nutted or tightened against the mounting surface. ◦ Consider using a thread locker for high-vibration applications.
Visible corrosion/rust	◦ Exposure to moisture/harsh chemicals ◦ Damage to zinc plating	◦ Clean and apply a rust-inhibiting lubricant. ◦ If plating is significantly compromised, consider replacement.

8. Warranty Information

Wolverine Tool products are manufactured to high standards of quality and durability. For specific warranty terms and conditions related to the 10125-M Spindle, please refer to the official warranty statement provided by Wolverine Tool at the time of purchase or visit their official website.
Generally, warranties cover defects in materials and workmanship under normal use. Damage resulting from misuse, abuse, unauthorized modification, or improper installation is typically not covered.

9. Customer Support

If you have any questions, require technical assistance, or need to report an issue with your Wolverine 10125-M Spindle, please contact Wolverine Tool customer support.

- **Manufacturer:** Wolverine Tool
- **Website:** Visit the Wolverine Store on Amazon (for general brand information)
- For direct support, please search for "Wolverine Tool official website" to find their contact page.

When contacting support, please have your product model number (10125-M) and any relevant purchase information ready.

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