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› Klein Tools 21010-6-SEN Free-Fall Snip, Scraper, File, Serrated Blades, Made in USA SCISSORS Instruction Manual

Klein Tools 21010-6-SEN

Klein Tools 21010-6-SEN Free-Fall Snip Instruction Manual

MODEL: 21010-6-SEN

1. PRODUCT OVERVIEW

The Klein Tools 21010-6-SEN Free-Fall Snip is a versatile tool designed for cutting, stripping, and filing. It features high carbon steel blades with serrated teeth for a secure grip and non-slip cutting action. The extended handle provides enhanced comfort and leverage, making it suitable for various wire cutting applications. This tool is proudly made in the USA, ensuring premium quality and durability.



Image 1.1: Klein Tools 21010-6-SEN Free-Fall Snip, showcasing its design and yellow handle.

Key Features:

- **Cuts Cordage, Cable, and Wire:** Efficiently handles various types of electrical communication wire, including 19 AWG and 23 AWG.
- **Strips 19 AWG and 23 AWG Wire:** Integrated stripping notches for precise wire insulation removal.
- **Extended Handle:** Provides superior comfort and increased cutting leverage.
- **High Carbon Steel Blades (58 HRC):** Engineered for exceptional durability and long-lasting sharpness.
- **Serrated Teeth:** Ensures non-slip cutting action, enhancing control and safety.
- **Built-in Scraper and File:** Located on the outside of both blades for added utility and convenience.
- **Free-Fall Feature:** Designed for ease of use and rapid cutting.
- **Made in USA:** Guarantees high-quality manufacturing and materials.

Product Video:

Video 1.2: Official product video demonstrating the features and use of the Free-Fall Snip, including its serrated blades, scraper, and file functions.

2. IMPORTANT SAFETY INFORMATION

Always adhere to the following safety guidelines when using the Klein Tools 21010-6-SEN Free-Fall Snip to prevent injury and ensure safe operation.

- **Eye Protection:** Always wear approved eye protection when using this tool.
- **Electrical Circuits:** Never use this tool on or near live electrical circuits. Ensure power is disconnected before working on any electrical wiring.
- **Intended Use:** Use the snips only for their intended purpose of cutting and stripping specified wire gauges and materials.
- **Sharp Blades:** The blades are extremely sharp. Handle with care to avoid cuts. Keep fingers clear of the cutting edges.
- **Storage:** Store the tool in a safe place, out of reach of children and untrained individuals.
- **Inspection:** Before each use, inspect the tool for any signs of damage or wear. Do not use if damaged.

3. SETUP

Unpacking and Initial Inspection:

1. Carefully remove the Klein Tools 21010-6-SEN Free-Fall Snip from its packaging.
2. Inspect the tool for any visible damage that may have occurred during shipping.
3. Confirm all components are present and intact.

Components:

The Klein Tools 21010-6-SEN Free-Fall Snip consists of:

- High Carbon Steel Blades with Serrated Teeth

- Integrated Scraper and File
- Extended Handle (Yellow and Silver)
- Pivot Screw

High Carbon Steel Blades

KLEIN TOOLS 

Since 1857



Image 3.1: Diagram highlighting key features such as high carbon steel blades, serrated teeth, scraper, file, and extended handle.

Preparation for Use:

No assembly is required for this tool. It is ready for use directly out of the packaging. Ensure the blades are clean and free of debris before first use.

4. OPERATING INSTRUCTIONS

General Operation:

The Klein Tools 21010-6-SEN Free-Fall Snip is designed for precision and ease of use in various cutting and stripping tasks.

1. Cutting Wire/Cordage:

- Position the wire or cordage between the serrated blades.
- Apply firm, steady pressure to the handles to cut through the material. The serrated edges will help prevent slippage.

2. Stripping Wire (19 AWG and 23 AWG):

- Locate the appropriate stripping notch on the blade (19 AWG or 23 AWG).
- Insert the wire into the correct notch, ensuring only the insulation is within the notch.
- Gently close the handles to cut the insulation, then pull the wire to remove the stripped portion.



Image 4.1: Demonstrating the wire stripping function of the snips.

3. Using the Scraper/File:

- The outside edges of the blades feature a scraper and file.
- Use the scraper to clean surfaces or remove light debris.
- The file can be used for light deburring or smoothing of edges on soft materials.



Image 4.2: Hands demonstrating the versatile use of the snips for cutting and other tasks.

4. Carrying and Storage:

- For convenient and safe transport, consider using a compatible tool holster.



Image 4.3: The Klein Tools snips securely stored in a compatible belt holster.

5. MAINTENANCE

Cleaning:

- After each use, wipe the blades clean with a dry cloth to remove any debris, dust, or residue.
- For stubborn grime, use a mild cleaning solution and ensure the tool is thoroughly dried afterwards to prevent rust.

Lubrication:

- Periodically apply a small amount of light machine oil to the pivot point to ensure smooth operation.
- Wipe off any excess oil.

Storage:

- Store the snips in a dry environment to prevent corrosion.

- Keep the blades closed when not in use to protect the cutting edges.

Sharpening:

- While the high carbon steel blades are designed for long-lasting sharpness, if they become dull over time, professional sharpening is recommended to maintain the integrity of the serrated edges and stripping notches.

6. TROUBLESHOOTING

If you encounter issues with your Klein Tools 21010-6-SEN Free-Fall Snip, refer to the table below for common problems and their solutions.

Problem	Possible Cause	Solution
Blades not cutting cleanly	Dull blades, debris caught between blades, damaged blades.	Clean blades thoroughly. If dull or damaged, consider professional sharpening or replacement.
Difficulty opening/closing handles	Lack of lubrication at pivot, rust, debris in pivot.	Clean the pivot area. Apply a drop of light machine oil to the pivot point.
Wire slipping during cutting	Worn serrated teeth, incorrect technique.	Ensure proper grip on the wire. If serrations are worn, consider replacement.
Stripping notches not effective	Incorrect wire gauge, worn notches.	Verify wire gauge matches notch. If notches are worn, replacement may be necessary.

If the problem persists after attempting these solutions, please contact Klein Tools customer support.

7. SPECIFICATIONS

Detailed technical specifications for the Klein Tools 21010-6-SEN Free-Fall Snip:

Attribute	Specification
Model Number	21010-6-SEN
Brand	Klein Tools
Material	High Carbon Steel (Blades), Alloy Steel (Handle)
Blade Edge	Serrated
Hardness	58 HRC (Blades)

Attribute	Specification
Wire Stripping Gauges	19 AWG, 23 AWG
Color	Yellow (Handle)
Item Weight	3.2 Ounces (approx. 90.7 grams)
Product Dimensions	Approx. 1"L x 1"W (Overall dimensions are not fully specified, but typical snips of this type are around 6-7 inches long)
Country of Origin	USA



Image 7.1: Packaging showing the approximate length of the snips (9.3 inches or 23 cm).

8. WARRANTY & SUPPORT

Warranty Information:

The Klein Tools 21010-6-SEN Free-Fall Snip comes with a **1-year manufacturer's warranty**. This warranty covers defects in material and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Klein Tools customer support through their official website or the retailer where the product was purchased. Provide your

model number (21010-6-SEN) and a detailed description of the issue for efficient service.