

DSPIAE ST-A

DSPIAE ST-A Ultra-Thin Single Blade Nipper 3.0

Instruction Manual

DSPIAE

1. INTRODUCTION

The DSPIAE ST-A Ultra-Thin Single Blade Nipper 3.0 is a precision tool engineered for plastic model building. Designed for hobbyists and professionals alike, this nipper provides exceptionally clean and accurate cuts on delicate plastic parts, minimizing stress marks and improving overall modeling efficiency. Its robust alloy steel construction and ergonomic design ensure durability and comfortable use for extended periods.



Image: The DSPIAE ST-A Ultra-Thin Single Blade Nipper 3.0, showcasing its single blade design and red ergonomic handles.

2. PRODUCT OVERVIEW AND FEATURES

The ST-A 3.0 Nipper incorporates advanced design and manufacturing techniques to deliver superior performance:

- **Single Blade Design:** The nipper's single blade design provides excellent cutting results for plastic parts' sprue attachments, effectively improving modeling efficiency by reducing the need for extensive post-cut cleanup.

Single Blade Design

The ST-A3.0 nipper's single blade design gives you excellent cutting results of plastic parts' sprue attachments and effectively improves your modeling efficiency.



Image: Close-up of the nipper highlighting its single blade design for clean cuts.

- **High-End Forging:** The body is forged with specially formulated alloy steel, and the cutting edge achieves a hardness of 58-64 HRC thanks to a multiple heat treatment process, ensuring long-lasting sharpness and durability.

High-End Forging

The body is forged with special formulated steel alloy and a cutting edge that reaches 58-64 HRC hardness thanks to our multiple heat treatment process.



Image: Detailed view of the nipper's forged alloy steel body and cutting edge.

- **Precision Grinding:** Mirror smoothness of the blade is achieved through precision grinding on specialized equipment, contributing to a superior cutting experience.

Precision Grinding

Mirror smoothness of the blade is achieved via precision grinding on specialized equipment that brings you better cutting experience.

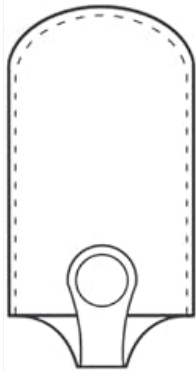


Image: Illustration of the nipper's precision-ground blade for smooth cuts.

- **Ergonomic Grip:** The handles are made from plastic with an ergonomic design, providing a comfortable and secure hold during prolonged use, reducing hand fatigue.
- **Protective Case:** Includes a protective case made from high-grade first layer cowhide, exquisitely sewn, with a snap lock design to keep the nipper secure and prevent accidental drops.

Protective Case

Our protective case are punched and exquisitely sewed with high grade first layer cowhide. The snap lock design keeps nipper secure from accidental drop.



Actual shot of cutting finish of
double blad nipper
(Real shoot)



Actual cutting result of
ST-A3.0 singe blade nipper
(Real shoot)

Image: The nipper secured within its cowhide protective case.

Product Overview Video

Your browser does not support the video tag.

Video: A comprehensive overview of the DSPIAE ST-A Ultra-Thin Single Blade Nipper 3.0, demonstrating its features and benefits for

3. WHAT'S INCLUDED

Your DSPIAE ST-A Ultra-Thin Single Blade Nipper 3.0 package includes the following items:

- Single-Bladed Nipper × 1
- Nipper Storage Case × 1
- Cowhide Protective Case × 1
- Set Screw Adjusting Wrench × 1
- Cleaning Cloth × 1

This Product Includes

Single-Bladed Nipper	×1
Nipper Storage Case	×1
Cowhide Protective Case	×1
Set Screw Adjusting Wrench	×1
Cleaning Cloth	×1





Image: All components included in the DSPIAE ST-A Nipper package: the nipper, storage case, protective case, adjusting wrench, and cleaning cloth.

4. SETUP

Before first use, it is important to perform a simple setup to ensure optimal performance and longevity of your nipper:

1. **Unpacking:** Carefully remove all items from the packaging. Inspect the nipper for any visible damage.
2. **Adjusting the Limit Regulator Screw:** The nipper features a "limit regulator" screw designed to prevent excessive force during cutting, which can lead to blade wear or breakage. This screw may require adjustment for optimal use.
 - Obtain a standard piece of A4 printer paper to use as a test subject.
 - Locate the limit regulator screw and its nut. Loosen the nut.
 - Using the included adjusting wrench, set the position of the regulator. The goal is for the regulator to stop against the opposing grip handle precisely when the piece of printer paper is cut.
 - If the nipper does not close enough to cut the paper, retract the limit regulator slightly.
 - If the nipper cuts the paper, but the limit regulator is not touching the opposing grip handle, extend the regulator until it rests directly against the opposing grip handle.
 - Once adjusted, tighten the regulator nut securely.
 - Test the adjustment again to ensure proper function. This adjustment helps protect the delicate cutting blade.

5. OPERATING INSTRUCTIONS

Follow these guidelines for effective and safe use of your DSPIAE ST-A Nipper:

1. **Identify the Cutting Edge:** The nipper has one sharp cutting blade and one flat, blunt side. The sharp blade is designed to make the cut, while the blunt side provides support.
2. **Positioning for Clean Cuts:** For optimal results and to minimize stress marks (whitish discoloration) on your plastic parts, position the nipper with the *flat, blunt side* against the part you wish to keep, and the *sharp cutting blade* against the sprue or runner.
3. **Cutting Technique:** Place the nipper as close as possible to the plastic part. Apply gentle, steady pressure to the handles. The single blade will slice through the plastic cleanly, much like a knife through butter, leaving a smooth finish that often requires minimal or no sanding.
4. **Avoid Over-Squeezing:** Do not apply excessive force beyond what is needed to make the cut. The limit regulator screw, if properly adjusted, will help prevent this. Over-squeezing can damage the delicate blade.
5. **Two-Stage Cutting (Optional):** For very thick or complex gates, some modelers prefer a two-stage cutting process:
 - First, use a standard, less precise nipper to cut the part roughly off the runner, leaving a small stub.
 - Then, use the DSPIAE ST-A Nipper to make the final, clean cut flush with the part.

6. MAINTENANCE

Proper maintenance will extend the life and performance of your nipper:

- **Cleaning:** After each use, wipe the nipper clean with the provided cleaning cloth or a soft, dry cloth. Ensure it is free of plastic debris, dust, moisture, and water marks.
- **Rust Prevention:** To prevent rust, apply a thin layer of rust-proof grease or a light machine oil to the metal parts, especially the blade and pivot points, periodically or after prolonged storage.
- **Storage:** Always store the nipper in its protective case or storage box when not in use. Store in a dry environment, away from high humidity. Do not submerge in water.
- **Re-adjusting the Limit Regulator:** The limit regulator screw may wear slightly over time with usage. Periodically check and re-adjust it as described in the "Setup" section to maintain optimal cutting performance and prevent damage.
- **Blade Care:** The blade is extremely sharp and delicate. Avoid dropping the nipper or using it to cut materials other than specified plastic (e.g., metal, hard ABS, clear plastic) as this can chip or dull the blade.

7. TROUBLESHOOTING

If you encounter issues with your nipper, consider the following:

- **Cuts are not perfectly flush or require more sanding:**
 - Ensure the nipper is positioned correctly with the flat side against the part.
 - Check the adjustment of the limit regulator screw. An incorrect setting can affect the blade's alignment and cutting performance. Refer to the "Setup" section for re-adjustment.
 - The blade might be slightly misaligned from manufacturing. While rare, if persistent, contact customer support.

- **Nipper feels loose or spring mechanism is not working:**
 - Inspect the spring mechanism. If the spring has broken, the nipper will not open automatically. This typically requires replacement.
 - Ensure all screws are tight, but do not overtighten.
- **Blade appears dull or chipped:**
 - Confirm you are only cutting appropriate plastic materials. Cutting metal, hard ABS, or clear plastic can damage the blade.
 - Avoid dropping the nipper, as impacts can chip the delicate blade.
 - A dull blade may indicate wear from extensive use or improper material cutting.

8. SPECIFICATIONS

Attribute	Detail
Brand	DSPIAE
Model Name	ST-A Ultra-Thin Single Blade Nipper 3.0
Model Number	ST-A
Material Quality	Carbon steel & Polyethylene plastic (handles)
Product Dimensions	6.69"L x 4.33"W (approx. 120mm length)
Color	Red
Item Weight	80 Grams (approx. 55 ± 3g as per image)
Specific Uses	Cutting plastic
Grip Type	Ergonomic



Material quality:
Carbon steel
& Polyethylene plastic

Model:
ST-A 3.0

Measurements:
120mm

Weight:
 $55 \pm 3\text{g}$

120



Unit:mm

Precautions

- The nipper contains extremely sharp edges, keep it out of reach for children under 10 years of age to avoid injury.
- Wear proper protection pieces to avoid blast of splashing parts.
- Never attempt to cut metal pieces with you nipper to avoid risk of breakage.
- Do not cut clear plastic and/or ABS runner to avoid collapse/breakage.
- Do not throw/drop your nipper to avoid damage of blade.
- Do not store your nipper in high humidity circumstance, do not merge in water to prevent rust.
- Keep surface clean and dry, free of moisture and water marks, use rust-proof grease for protection.

www.dsplae.com

Image: Visual representation of the nipper's specifications and important precautions.

9. SAFETY PRECAUTIONS

WARNING: This nipper contains extremely sharp edges. Failure to follow these precautions may result in injury or damage to the product.

- Keep the nipper out of reach for children under 10 years of age.
- Always wear proper eye protection to avoid injury from splashing plastic parts during cutting.
- Never attempt to cut metal pieces with your nipper to avoid risk of breakage or damage to the blade.
- Do not cut clear plastic and/or ABS runners with this nipper, as these materials can cause blade collapse or breakage due to their hardness and brittleness.
- Do not throw or drop your nipper to avoid damage to the delicate blade.
- Do not store your nipper in high humidity circumstances, and do not merge it in water to prevent rust.

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official DSPIAE website. Keep your purchase receipt for any warranty claims.

Official Website: www.ds paie.com

© 2024 DSPIAE. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

