

## Aexit GH-20235

# Aexit GH-20235 Horizontal Toggle Clamp Instruction Manual

Model: GH-20235

## 1. INTRODUCTION

The Aexit GH-20235 Horizontal Toggle Clamp is a robust, hand-operated workholding device designed for efficient and secure clamping. Its compact design, U-shaped bar, and flange base make it ideal for quickly securing sheet metal, circuit boards, and other workpieces in various applications such as welding, jigging, and general repair tasks. The clamp's lever mechanism is engineered to provide controlled operation, minimizing impact from side thrust during clamping, and features a soft plastic cover on the handle for comfortable and safe use.

## 2. SAFETY INFORMATION

Always observe the following safety precautions when using the Aexit GH-20235 Horizontal Toggle Clamp:

- **Wear appropriate personal protective equipment (PPE)**, including safety glasses, to protect against potential hazards.
- **Ensure the clamp is securely mounted** to a stable and appropriate surface before applying clamping force.
- **Do not exceed the specified holding capacity** of 340 kg (750 lbs). Overloading can lead to clamp failure and injury.
- **Keep hands and fingers clear** of the clamping mechanism and pinch points during operation.
- **Inspect the clamp regularly** for any signs of wear, damage, or loose components. Do not use a damaged clamp.
- **Use the clamp only for its intended purpose** of holding workpieces. Do not use it as a lifting device or for other unintended applications.

## 3. PRODUCT OVERVIEW

The Aexit GH-20235 is a horizontal toggle clamp featuring a U-shaped bar and a flange base for secure mounting. Its design allows for quick and efficient clamping operations.



Figure 1: Aexit GH-20235 Horizontal Toggle Clamp. This image shows the clamp in its open position, highlighting the U-shaped bar, red handle with black plastic grip, and the silver-tone metal flange base.

### Key Components:

- **U-shaped Bar:** Provides versatile clamping options for various workpiece shapes.
- **Flange Base:** Designed for secure mounting to a workbench or fixture.
- **Handle:** Ergonomically designed with a soft plastic cover for comfortable and safe operation.
- **Lever Mechanism:** Controls the clamping action and helps prevent impact from side thrust.

## 4. SPECIFICATIONS

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| Specification        | Value                   |
|----------------------|-------------------------|
| Model Number         | GH-20235                |
| Type                 | Horizontal Toggle Clamp |
| Holding Capacity     | 340 kg (750 lbs)        |
| Bar Opening Angle    | 85°                     |
| Handle Opening Angle | 50°                     |
| Weight               | 448 g                   |
| Material             | Metal, Plastic          |
| Color                | Silver Tone, Red, Black |
| Manufacturer         | Aexit                   |

## 5. SETUP

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To set up your Aexit GH-20235 Horizontal Toggle Clamp:

1. **Choose a suitable mounting location:** Select a stable and sturdy workbench, jig, or fixture that can withstand the clamping forces.
2. **Position the clamp:** Place the flange base of the clamp in the desired position. Ensure there is adequate clearance for the handle and clamping arm to operate freely.
3. **Secure the clamp:** Use appropriate fasteners (screws, bolts, nuts - not included) to firmly attach the flange base to the mounting surface. Ensure all fasteners are tightened securely to prevent movement during operation.
4. **Test operation:** Before clamping a workpiece, operate the clamp a few times to ensure smooth movement and proper engagement.

## 6. OPERATING INSTRUCTIONS

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Follow these steps to operate your horizontal toggle clamp:

1. **Open the clamp:** Pull the handle upwards and backwards to fully open the clamping arm. The bar opening angle is 85°.
2. **Position the workpiece:** Place the item to be clamped securely under the U-shaped bar.
3. **Engage the clamp:** Push the handle downwards and forwards. The lever mechanism will move the U-shaped bar to firmly hold the workpiece. Continue pushing until the clamp reaches its over-center locked position. This ensures the clamp remains engaged without constant pressure.
4. **Release the clamp:** To release, pull the handle upwards and backwards until the clamping arm is fully open, then remove the workpiece.

*Note: The lever is designed to control movement and prevent impact from side thrust during clamping, contributing to a smoother operation.*

## 7. MAINTENANCE

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Proper maintenance will extend the life and ensure the reliable operation of your toggle clamp:

- **Cleaning:** Keep the clamp clean and free from debris, dust, and metal shavings. Wipe down with a clean cloth after each use.
- **Lubrication:** Periodically apply a light machine oil to all pivot points and moving parts to ensure smooth operation and prevent rust.
- **Inspection:** Regularly inspect the clamp for signs of wear, bending, cracks, or corrosion on the metal components. Check the integrity of the handle's plastic cover.
- **Tightness:** Ensure all mounting fasteners remain tight. Re-tighten if necessary.
- **Storage:** Store the clamp in a dry environment to prevent rust and corrosion.

## 8. TROUBLESHOOTING

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If you encounter issues with your Aexit GH-20235 Toggle Clamp, refer to the following common problems and solutions:

- **Clamp not holding securely:**
  - Ensure the workpiece is properly positioned under the U-shaped bar.
  - Verify that the clamp is fully engaged and in its over-center locked position.
  - Check for excessive wear on the clamping mechanism that might reduce holding force.
  - Confirm the clamp is securely mounted to its base.
- **Difficulty operating the lever:**
  - Check for any obstructions preventing smooth movement of the handle or clamping arm.
  - Apply lubrication to the pivot points as described in the Maintenance section.
  - Inspect for any bending or damage to the metal components that might impede movement.

If problems persist after attempting these solutions, contact the manufacturer for further assistance.

## 9. WARRANTY AND SUPPORT

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This Aexit GH-20235 Horizontal Toggle Clamp is manufactured to high-quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the documentation provided at the time of purchase or contact Aexit customer support directly.

For technical support, replacement parts, or any other inquiries, please reach out to the manufacturer or your authorized dealer. Always provide the model number (GH-20235) when seeking support.