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FANGZHNHT FANGZHNHT

Instruction Manual: 304 Stainless Steel Inner Door Type Four-Axis Foldable Thickened Concealed Hinge

Brand: FANGZHNHT | Model: FANGZHNHT

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the FANGZHNHT 304 Stainless Steel Inner Door Type Four-Axis Foldable Thickened Concealed Hinge. Designed for distribution cabinets and control cabinets, this hinge offers a robust and space-saving solution for various applications. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. Product Overview

The FANGZHNHT concealed hinge is crafted from high-quality 304 stainless steel, ensuring durability and corrosion resistance. Its four-axis foldable design allows for a compact and hidden installation, making it ideal for applications where aesthetics and space are critical. This hinge is specifically designed for inner doors of distribution and control cabinets, providing a secure and smooth folding mechanism.



Figure 2.1: Two FANGZHNHT 304 Stainless Steel concealed hinges, showcasing their robust construction and partially open state.



Figure 2.2: Close-up view of two FANGZHNHT hinges, highlighting the stainless steel material and overall finish.

3. Specifications

Attribute	Value
Material	304 Stainless Steel
Type	Inner Door Type Four-Axis Foldable Concealed Hinge
Item Weight	1.76 ounces (approx. 50 grams)
Package Dimensions	1.18 x 0.79 x 0.39 inches (approx. 30 x 20 x 10 mm)
Color	304 SS-Small (Stainless Steel Small)
Quantity	1 Piece

Attribute	Value
Model Number	FANGZHNHT

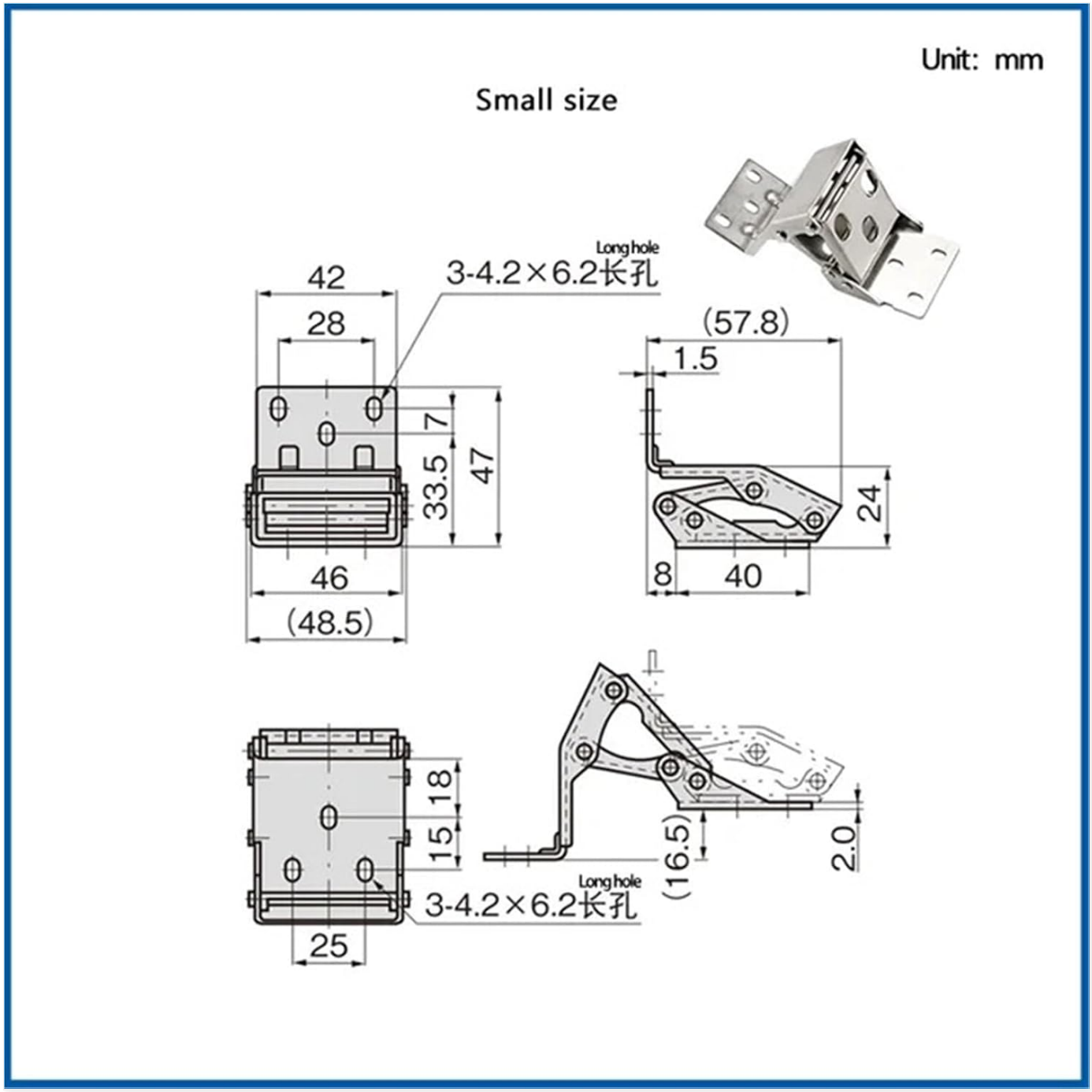


Figure 3.1: Technical drawing with precise dimensions of the hinge in millimeters, crucial for accurate installation.

4. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of the concealed hinge. Refer to Figure 3.1 for precise measurements and hole placement.

Tools Required:

- Drill
- Drill bits appropriate for mounting screws (not included)
- Screwdriver (Phillips head recommended)

- Measuring tape or ruler
- Pencil or marker

Installation Steps:

1. **Prepare the Mounting Surface:** Ensure the surfaces on both the cabinet frame and the inner door are clean, flat, and free of obstructions.
2. **Mark Drilling Points:** Using the dimensions provided in Figure 3.1, accurately mark the drilling points for the hinge on both the cabinet frame and the inner door. Pay close attention to the "Long hole" dimensions for potential adjustment.
3. **Drill Pilot Holes:** Drill pilot holes at the marked points. The size of the pilot holes should be slightly smaller than the diameter of your mounting screws to ensure a secure fit.
4. **Attach Hinges to Door:** Secure one side of the hinge to the inner door using appropriate screws. Ensure the hinge is flush and aligned correctly.
5. **Attach Hinges to Cabinet Frame:** Align the door with the cabinet opening and secure the other side of the hinge to the cabinet frame. It may be helpful to have assistance during this step to hold the door in place.
6. **Test Operation:** Gently open and close the door to ensure smooth operation and proper alignment. Make any necessary adjustments using the elongated screw holes if present.



Figure 4.1: Top view of a single hinge, illustrating the screw hole pattern for mounting.



Figure 4.2: Angled view of the hinge, demonstrating its compact design when folded.

5. Operating Instructions

The FANGZHNHT concealed hinge operates on a four-axis folding mechanism, allowing the door to open and close smoothly while remaining hidden within the cabinet structure. To operate, simply open or close the cabinet door as usual. The hinge will articulate to allow the door to move freely and then fold compactly when the door is closed, maintaining a clean exterior appearance.



Figure 5.1: The hinge in its fully folded position, illustrating how it conceals within the cabinet.



Figure 5.2: The hinge in its fully open position, showing the articulation for door movement.

6. Maintenance

The 304 stainless steel construction of this hinge provides excellent resistance to corrosion and requires minimal maintenance. However, periodic inspection and cleaning can extend its lifespan and ensure smooth operation.

Maintenance Tips:

- **Cleaning:** Wipe the hinge surfaces periodically with a soft, damp cloth to remove dust and grime. For stubborn dirt, a mild soap solution can be used, followed by thorough drying. Avoid abrasive cleaners or harsh chemicals that could damage the stainless steel finish.
- **Lubrication:** While not typically required for this type of hinge, if you notice any stiffness or squeaking over time, a small amount of silicone-based lubricant can be applied to the pivot points. Avoid oil-based lubricants that can attract dust.
- **Fastener Check:** Periodically check all mounting screws to ensure they are tight. Loose screws can lead to misalignment or damage to the hinge and door.

7. Troubleshooting

If you encounter any issues with your FANGZHNHT concealed hinge, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Door does not close flush or is misaligned.	Loose mounting screws or incorrect initial alignment.	Tighten all mounting screws. If misalignment persists, loosen screws slightly, adjust door position, and re-tighten. Utilize elongated holes for fine adjustments if available.
Hinge feels stiff or makes noise.	Accumulation of dust/debris or lack of lubrication.	Clean the hinge mechanism thoroughly. Apply a small amount of silicone-based lubricant to the pivot points.
Hinge appears damaged or bent.	Excessive force applied to the door or impact.	If the hinge is physically damaged, it should be replaced to ensure proper function and safety.

8. Warranty and Support

Specific warranty information for the FANGZHNHT 304 Stainless Steel Inner Door Type Four-Axis Foldable Thickened Concealed Hinge is not provided in this manual. For details regarding warranty coverage, technical support, or replacement parts, please contact the manufacturer directly through their official website or customer service channels. Manufacturer: FANGZHNHT

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