

Sugatsune 8400-16

Sugatsune Kogyo K&V 8400-16 Slide Rail User Manual

Model: 8400-16

1. PRODUCT OVERVIEW

The Sugatsune Kogyo K&V 8400-16 is a high-quality 3-stage full extension slide rail designed for smooth and reliable operation in various applications, such as drawers and pull-out shelves. Its robust construction ensures durability and consistent performance.



Figure 1: Top-down view of the Sugatsune K&V 8400-16 Slide Rail in its extended position. This image shows the full extension capability of the rail.

2. KEY FEATURES

- 3-Stage Full Extension:** Allows the inner rail to be fully pulled out, providing complete access to the contents of the drawer or pull-out unit.
- Detachable Inner Rail:** The inner rail can be easily removed by a simple lever operation, facilitating installation and maintenance.
- Closed Position Retention:** The rail maintains a simple hold when fully closed, preventing accidental opening.
- Shock Absorption:** The outer rail mounting part incorporates a shock absorption effect, ensuring smooth sliding even with slight deformation of the cabinet structure.

Important Note: Do not change the combination of the inner rail and outer rail. The load capacity is measured as the static load at the center of the rail when the drawer side rail is extended.

3. SPECIFICATIONS

Attribute	Value
Brand	Sugatsune
Model Number	8400-16

Attribute	Value
Material	Steel
Load Capacity (N/pair)	441N/pair
Load Capacity (kgf/pair)	45kgf/pair
Package Dimensions	45 x 5 x 2 cm
Item Weight	1.5 Kilograms
First Available on Amazon.co.jp	2013/7/30

4. COMPONENTS AND MATERIALS

No.	部品名	材料	仕上
①	アウターレール	銅	光沢クロメート処理
②	中間レール	銅	光沢クロメート処理
③	インナーレール	銅	光沢クロメート処理
④	リテーナー	銅	(亜鉛めっき鋼板)
⑤	スチールボール	銅	—

Figure 2: Table detailing the components of the slide rail, their materials, and finishes.

No.	Part Name	Material	Finish
①	Outer Rail	Steel	Glossy Chrome Plating
②	Middle Rail	Steel	Glossy Chrome Plating
③	Inner Rail	Steel	Glossy Chrome Plating
④	Retainer	Steel	(Zinc Plated Steel Sheet)
⑤	Steel Ball	Steel	-

5. DIMENSIONS AND INSTALLATION GUIDELINES

Refer to the detailed technical drawing below for precise dimensions and mounting hole locations. Accurate measurements are crucial for proper installation and smooth operation.

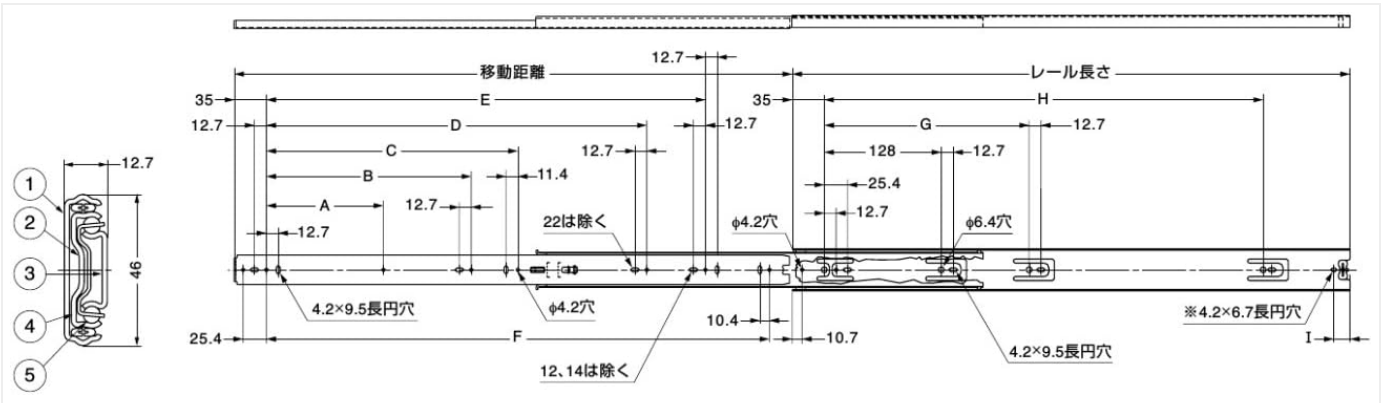


Figure 3: Technical drawing illustrating the various dimensions (A, B, C, D, E, F, G, H, I) and hole placements for the slide rail. All measurements are in millimeters unless otherwise specified.

- **Rail Length:** Refer to dimension 'H' in the diagram.
- **Travel Distance:** Refer to the indicated ' ' (Travel Distance) in the diagram.
- **Mounting Holes:** Note the positions and sizes of the $\phi 4.2$ and $\phi 6.4$ holes, as well as the 4.2×9.5 elongated holes.
- **Clearance:** Ensure adequate clearance for the rail mechanism, especially around the outer rail mounting area.

6. SETUP AND INSTALLATION

1. **Prepare the Mounting Surface:** Ensure the cabinet or drawer side where the rail will be mounted is clean, flat, and structurally sound.
2. **Separate Rails (if necessary):** If the inner rail needs to be separated for mounting, operate the lever mechanism to detach it from the middle rail.
3. **Mount Outer Rail:** Secure the outer rail to the cabinet frame using appropriate screws. Refer to Figure 3 for mounting hole locations. Ensure the rail is level and parallel to the opposing rail.
4. **Mount Inner Rail:** Secure the inner rail to the drawer box or pull-out unit. Ensure correct alignment with the outer rail.
5. **Reassemble Rails:** Carefully slide the inner rail back into the middle and outer rails until it clicks into place. Ensure smooth movement.
6. **Test Operation:** Gently slide the drawer or unit in and out several times to confirm smooth operation and full extension. Adjust alignment if necessary.

Included Accessories: Phillips head blind tapping screw 3.9×12.5. Use these screws for optimal performance and secure mounting.

7. OPERATING INSTRUCTIONS

The Sugatsune K&V 8400-16 slide rail is designed for intuitive operation. Simply pull the drawer or unit to extend it and push to close it.

- **Extension:** Pull the drawer or unit outwards. The 3-stage mechanism will allow for full extension, providing complete access.
- **Closing:** Push the drawer or unit inwards. The rail will smoothly retract and be held in the closed position.
- **Inner Rail Removal:** To remove the inner rail (e.g., for cleaning or maintenance), locate the small lever on the rail (typically near the front or rear) and depress it while pulling the inner rail out.

8. MAINTENANCE

Regular maintenance ensures the longevity and smooth operation of your slide rails.

- **Cleaning:** Periodically wipe down the rails with a clean, dry cloth to remove dust and debris. For stubborn dirt, a slightly damp cloth can be used, followed by drying.
- **Lubrication:** While these rails are designed for low maintenance, a light application of a silicone-based lubricant (avoiding oil-based lubricants that attract dust) can be applied to the ball bearings if movement becomes stiff over time.
- **Inspection:** Regularly check for any loose screws or signs of wear. Tighten any loose fasteners immediately.
- **Avoid Overloading:** Do not exceed the specified load capacity of 45kgf/pair (441N/pair) to prevent damage and ensure smooth operation.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drawer sticks or is difficult to open/close.	Misalignment, dirt/debris in rails, overloading.	Check alignment and adjust. Clean rails. Reduce load.
Drawer does not fully extend or close.	Obstruction, damaged rail, incorrect installation.	Inspect for obstructions. Verify correct installation and alignment. Replace damaged rails.
Noisy operation.	Lack of lubrication, dirt, worn components.	Clean rails and apply a light lubricant. Inspect for worn parts.
Inner rail cannot be removed.	Lever not fully depressed, rail under load.	Ensure lever is fully depressed. Remove any load from the drawer.

10. WARRANTY AND SUPPORT

Sugatsune Kogyo products are manufactured to high standards of quality and durability. For specific warranty information, please refer to the terms and conditions provided at the point of purchase or visit the official Sugatsune website.

For technical support, replacement parts, or further inquiries, please contact your local Sugatsune distributor or customer service. When contacting support, please have your product model number (8400-16) and purchase details ready.

Official Website: www.sugatsune.com

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