

Unicraft EKZT 5-2

Unicraft EKZT 5-2 Electric Chain Hoist Instruction Manual

Model: EKZT 5-2 (6194105)

1. SAFETY INSTRUCTIONS

Read this manual thoroughly before operation. Failure to follow these instructions may result in serious injury or property damage. Keep this manual for future reference.

- Ensure the hoist is installed by qualified personnel and securely mounted to a structure capable of supporting the maximum load.
- Always inspect the hoist, chain, hook, and control unit for damage before each use. Do not operate if any damage is found.
- Do not exceed the maximum rated load of 500 kg (0.5 t).
- Keep hands and body clear of moving parts and suspended loads.
- Never use the hoist to lift people or as a ladder.
- Ensure the load is balanced and properly secured before lifting.
- Do not operate the hoist in explosive atmospheres or where flammable materials are present.
- Disconnect power before performing any maintenance or repairs.
- The integrated limit switch and overload protection system are critical safety features; do not bypass or tamper with them.

2. PRODUCT DESCRIPTION AND FEATURES

The Unicraft EKZT 5-2 Electric Chain Hoist, Model 6194105, is a robust and reliable lifting device designed for industrial and commercial applications. It features a durable construction and advanced safety mechanisms to ensure efficient and secure material handling.



Figure 1: Unicraft EKZT 5-2 Electric Chain Hoist. This image shows the hoist body with the chain extending downwards and the control unit cable attached, highlighting its compact design.

Key Features:

- **Dual Lifting Speeds:** Offers two distinct lifting speeds for precise load positioning and efficient operation.
- **High Load Capacity:** Capable of lifting loads up to 500 kg (0.5 t).
- **Hook Suspension:** Designed for easy and secure suspension via a robust hook.
- **Overload Protection:** Equipped with a slip clutch to prevent damage from exceeding the rated load.
- **Integrated Limit Switch:** Automatically stops lifting or lowering at extreme positions to prevent over-travel.
- **Standard Chain Container:** Provides secure and organized storage for the chain, preventing tangles and damage.
- **Durable Construction:** Built for longevity and reliable performance in demanding environments.

3. TECHNICAL SPECIFICATIONS

| Parameter | Value |
|---------------------------|--------------------------|
| Model | EKZT 5-2 |
| Article Number | 6194105 |
| Maximum Load Capacity | 0.5 t (500 kg) |
| Lift Height (Standard) | 6 m |
| Motor Group (FEM/ISO) | 2m / M5 |
| Lifting Speed | 7.7 / 2.2 m/min |
| Control Unit Cable Length | 6 m |
| Number of Chain Strands | 1 |
| Dimensions (L x W x H) | 641 mm x 276 mm x 410 mm |
| Net Weight | 57 kg |
| Protection Class | IP 54 |
| Connection Voltage | 400 V, 3 phases |
| Power Consumption | 1.2 / 0.4 kW |
| Power Type | AC |
| Mains Frequency | 50 Hz |

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of the Unicraft EKZT 5-2 Electric Chain Hoist. Installation should only be performed by qualified and authorized personnel.

Installation Steps:

- Mounting Location:** Select a mounting point that is structurally sound and capable of supporting the hoist's weight plus the maximum rated load with an adequate safety factor. The mounting structure must comply with local regulations and standards.
- Secure Hoist:** Attach the hoist securely using its suspension hook to the designated mounting point. Ensure all fasteners are tightened to the manufacturer's specifications.
- Electrical Connection:** Connect the hoist to a 400 V, 3-phase, 50 Hz power supply. All electrical work must be performed by a licensed electrician and comply with local electrical codes. Ensure proper grounding.
- Chain Inspection:** Before first use, inspect the lifting chain for any twists, kinks, damage, or corrosion. Ensure the chain is correctly seated in the sprocket.
- Control Unit Placement:** Position the control unit in a location that allows the operator a clear view of the load and the working area, while maintaining a safe distance.
- Test Run:** Perform a test run without a load to verify all functions (up, down, emergency stop) are working correctly and smoothly. Check for unusual noises or movements.

5. OPERATING INSTRUCTIONS

Follow these guidelines for safe and effective operation of your Unicraft EKZT 5-2 Electric Chain Hoist.

Pre-Operation Checks:

- Verify that the hoist, chain, and hook are free from damage, wear, or deformation.
- Ensure the chain is properly lubricated and free of twists.
- Check that the power supply cable and control unit cable are intact and not frayed.
- Confirm the working area is clear of obstructions and personnel.

Lifting and Lowering a Load:

1. **Attach Load:** Securely attach the load to the hoist hook using appropriate rigging equipment (slings, shackles, etc.). Ensure the load is balanced.
2. **Lift:** Press the "UP" button on the control unit. Use the slower speed for initial lift-off and precise positioning. Observe the load carefully during lifting.
3. **Lower:** Press the "DOWN" button on the control unit. Control the descent speed to ensure a smooth and controlled lowering of the load.
4. **Emergency Stop:** In case of an emergency, press the red "EMERGENCY STOP" button on the control unit immediately. This will cut power to the hoist. Reset the button before resuming operation.
5. **Avoid Side Pulls:** Do not use the hoist for side pulling or dragging loads. The hoist is designed for vertical lifting only.
6. **Limit Switches:** Do not rely solely on the limit switches to stop the hoist. Always release the control button before the load reaches the upper or lower limit.

6. MAINTENANCE

Regular maintenance is essential to ensure the longevity, safety, and optimal performance of your Unicraft EKZT 5-2 Electric Chain Hoist. Always disconnect the hoist from the power supply before performing any maintenance.

Maintenance Schedule:

- **Daily/Before Each Use:**
 - Visually inspect the hoist, chain, hook, and control unit for any signs of damage, wear, or deformation.
 - Check for proper function of the UP/DOWN buttons and the emergency stop.
 - Ensure the chain is free of twists and properly lubricated.
- **Weekly/Monthly (depending on usage):**
 - Inspect the chain for excessive wear, stretching, or corrosion. Replace if necessary.
 - Check the hook for deformation, cracks, or wear at the throat opening.
 - Examine the electrical cables for cuts, abrasions, or loose connections.
 - Test the limit switches for proper operation.
 - Clean the hoist exterior to remove dust and debris.
- **Annually:**
 - Have the hoist inspected and serviced by a qualified technician. This includes internal component checks, lubrication of gears, and verification of all safety systems.
 - Perform a load test to ensure the hoist can safely handle its rated capacity.

Note: Only use genuine Unicraft replacement parts for repairs. Unauthorized modifications or use of non-genuine parts can

compromise safety and void the warranty.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Unicraft EKZT 5-2 Electric Chain Hoist. For problems not listed here or if solutions do not resolve the issue, contact qualified service personnel.

| Problem | Possible Cause | Solution |
|---|---|--|
| Hoist does not operate. | No power supply; Emergency stop button engaged; Limit switch activated; Motor overload. | Check power connection and circuit breaker; Release emergency stop button; Check if load is at extreme position; Allow motor to cool down. |
| Hoist operates slowly or with difficulty. | Overload; Insufficient lubrication of chain; Motor issue. | Reduce load (do not exceed 500 kg); Lubricate chain; Contact service for motor inspection. |
| Unusual noise during operation. | Lack of lubrication; Worn gears; Foreign object in chain path. | Lubricate chain and internal components (by qualified personnel); Inspect for foreign objects; Contact service for gear inspection. |
| Chain twists or jams. | Improper loading; Damaged chain; Chain container issue. | Ensure load is balanced and lifted vertically; Inspect chain for damage and replace if necessary; Check chain container for obstructions. |

8. WARRANTY AND SUPPORT

Unicraft products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Unicraft website.

For technical support, spare parts, or service inquiries, please contact your authorized Unicraft dealer or the Unicraft customer service department. When contacting support, please have your model number (EKZT 5-2) and article number (6194105) ready.

Information regarding spare parts availability is currently unavailable through this document. Please contact Unicraft directly for details.