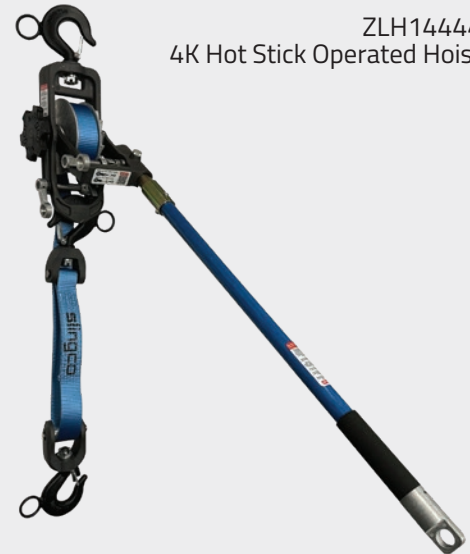




ZLH14335  
4K Hoist

## 4K STRAP HOIST OPERATION AND SAFETY GUIDE

SLINGCO PART NO. ZLH14335/ZLH14444



ZLH14444  
4K Hot Stick Operated Hoist

### **⚠ ATTENTION**

**READ** and **UNDERSTAND** all of the instructions and safety information in this manual before operating or servicing this tool.

Failure to read and understand these warnings and safe handling instructions could result in severe personal injury or death.

**KEEP THIS MANUAL WITH TOOL.**

Thank you for using Slingco® products. This manual must be read and understood prior to operating this product. Special attention should be paid to the section **'Safety Information'**.

This manual should be kept available to all operating and maintenance personnel.

Additional or replacement manuals may be obtained at no charge by contacting your local Slingco office.

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## SAFETY INFORMATION

### ATTENTION

**DO NOT** perform any service or maintenance on this tool other than described in this manual.

Read and follow the operator's manual before using this tool.

This manual should be kept available to all operating and maintenance personnel.

### **WARNING** SAFETY SHOES REQUIRED



- Safety shoes required when using this product.

### **WARNING** PINCH POINT HAZARD



- Keep hands away from hoist mechanism, or serious injury may occur.

### **WARNING** HARD HAT REQUIRED



- **DO NOT** operate without proper head protection.

### **WARNING** SAFETY GOGGLES REQUIRED



- **DO NOT** operate without eye protection, or serious injury may occur.

### **WARNING** GLOVES REQUIRED



- **DO NOT** operate without proper hand protection.

### **WARNING** SUSPENDED LOAD



- Heavy suspended objects can fall, causing property damage, severe injury, or even death.
- **DO NOT** stand under Strap Hoist.
- **DO NOT** lift or pull more than rated load.

### **WARNING** ELECTRICAL SHOCK HAZARD



- This tool is **NOT** insulated.
- Failure to observe this warning could result in severe injury or death.

## SAFETY INFORMATION

### WORK AREA SAFETY

1. Keep the area around the equipment clean and free of obstruction.
2. Bystanders should stay clear of the work area to ensure safety.

### PERSONAL SAFETY

1. Stay alert while using the equipment to prevent serious injury. Do not use under the influence of drugs, alcohol or medications.
2. Do not wear loose hair or clothes that may get caught while the equipment is in operation.
3. Work safely. Ensure firm footing, be properly secured, and do not over-extend yourself while operating equipment.

### TOOL USE AND CARE

1. **DO NOT** use this tool if there are any abnormalities or damage to any of its components.
2. Inspect the tool before and after every use. Do not use this tool if it is damaged in any way. Ensure that all pins are secure.
3. When having the tool repaired, always use factory Slingco replacement parts. Tools must be serviced and/or repaired by Slingco or a factory authorized service center.

## SAFETY INFORMATION (CONT.)

### WARNINGS

Failure to observe any of the following warnings could result in severe injury or death.

- Do not use this hoist with damaged or worn strap.
- Do not operate the hoist with any extension or cheater bar. Only use Slingco provided handle for operation of hoist.
- Do not use the hoist to lift or support people.
- Protect the hoist strap from sharp objects, chemicals, excessive UV or anything else that could damage the integrity of the strap.
- Hoist is only to be operated in a straight line pull or lift hook-to-hook.
- Do not apply load to the tip of the hook or hook latch.
- Do not wrap web strap around object being pulled or lifted. Only use hooks for lifting or pulling.
- Do not attempt to free wheel hoist while under load.
- Do not let the strap overlap the teeth or sides of the drum. Web strap must be locked in the center of drum.
- Do not leave hoist unattended while loaded.
- Ensure all pawls are in place and all slack has been removed from strap prior to operation.
- Do not release the handle until operating stroke is completed and the handle is at rest.
- Do not allow more than one operator to pull on the handle at the same time.

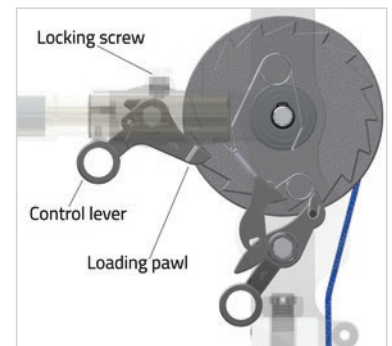
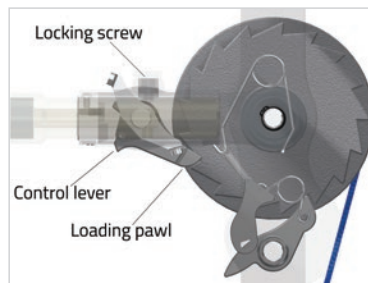
## DESCRIPTION

| Slingco<br>Part No. | Type               | SINGLE LINE |     |      |     |          |       | DOUBLE LINE |       |      |     |          |       | Tool weight |      |
|---------------------|--------------------|-------------|-----|------|-----|----------|-------|-------------|-------|------|-----|----------|-------|-------------|------|
|                     |                    | Capacity    |     | Lift |     | Headroom |       | Capacity    |       | Lift |     | Headroom |       |             |      |
|                     |                    | lb          | kg  | ft   | m   | in       | mm    | lb          | kg    | ft   | m   | in       | mm    | lb          | kg   |
| ZLH14335            | Standard           | 2,000       | 907 | 11   | 3.4 | 16.5     | 419.1 | 4,000       | 1,814 | 5.5  | 1.7 | 22.5     | 571.5 | 14.28       | 6.48 |
| ZLH14444            | Hot stick operated | 2,000       | 907 | 11   | 3.4 | 16.5     | 419.1 | 4,000       | 1,814 | 5.5  | 1.7 | 22.5     | 571.5 | 14.89       | 6.75 |

## OPERATING INSTRUCTIONS

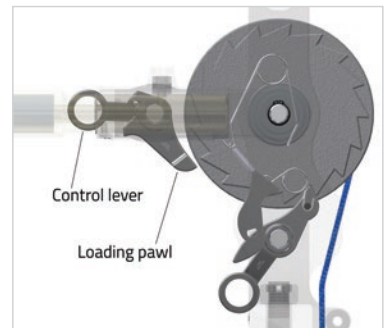
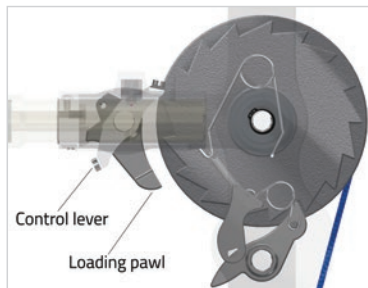
### LIFTING OR PULLING

Place the handle in the U-frame and engage the handle locking screw prior to operation. Place control lever perpendicular to the frame as pictured, engaging the loading pawl against the teeth of drum. Work the handle as required to get desired operation.



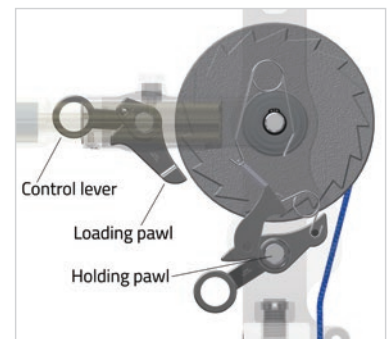
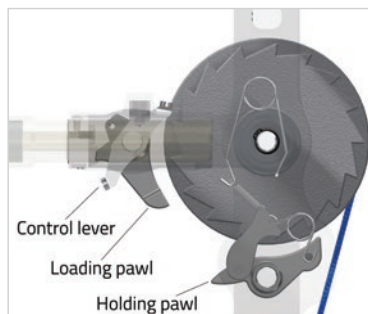
### LOWERING

Place control lever perpendicular to the frame as pictured. Operate the handle to its furthest down position until load is removed from holding pawl. Release downward pressure on handle slowly. The load will be lowered or released one notch on the drum at a time. Continue to lower or release load by repeating the operation. Lowering or releasing heavy loads is easier if a quick downward handle motion is used.



### FREEWHEELING

Place control lever perpendicular to the frame as pictured. Push spring loaded holding pawl into position. The strap can now be pulled from the drum to gain the length needed to reach the attachment point. Likewise, with the control lever in perpendicular position, excess slack may be removed and rewound onto the drum using the winding wheel.



## OPERATING INSTRUCTIONS (CONT.)

As already stated in *Safety Information*, do not use this tool if there are any abnormalities, or damage to any of the components. This includes any damage to hooks, frame, handle, pawls or strap. During inspection, operator should be looking for any signs of distortion, cracks or breaks to any metal parts. Strap should be inspected for cuts and frays, broken stitches or any UV or chemical breakdown or exposure. If anything listed is found, immediately tag and remove the tool from use. When repairing hoist use only factory Slingco parts. All warning and capacity labels should be on the hoist.

**Hoist should be inspected prior to and after each use.**

## MAINTENANCE

### STORAGE

While hoist is not in use, it is best to place the hoist in truck tool bins. Hang the hoist by the upper hook with the strap wound up to minimize exposure to any elements. If the strap becomes wet during work, it is best to let the strap dry prior to winding up.

### CLEANING

Cleaning your hoist is not typically necessary. But when the need arises, clean metal parts and web strap with mild soap or detergent and water. Be sure to allow strap to dry before winding the strap back up and beginning use again. After hoist has been cleaned, it must be lubricated.

### LUBRICATION

When lubricating any of the following, only apply small amounts, and take extra precautions not to allow any lubricants to contact strap.

While performing an inspection before and after use of the hoist, apply light grease (synthetic or lithium-based) to the contact points between loading pawl and pin.

The following parts should be lubricated with a motor oil (Aerokroil or equivalent is advised):

- Hook shank
- Rotating points of shafts, with the exception of the drum shaft

## INSPECTION REQUIREMENTS

Inspections must be conducted at a minimum as specified in the inspection chart on page 9. However, federal, local, or company inspection policies supersede this schedule.

Any deficiencies identified during an inspection must be carefully evaluated to determine if they pose a safety risk. A designated person shall assess the severity of the irregularity and decide whether further inspection, corrective action, or disassembly is necessary.

Operators or other designated personnel should perform visual checks for any damage during regular service. Formal recorded inspections shall be conducted by a designated person.

As a web strap nears the end of its useful life, the frequency of detailed inspections should be increased to ensure continued safety and reliability.

If a hoist has been out of service for one year or more, it must undergo a periodic inspection before being returned to operation.

## INSPECTION REQUIREMENTS (CONT.)

| Description                                                                                                                                                      | Weekly usage           | Daily usage            | Severe service<br>(daily usage in<br>severe weather) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------------------------------------|
| <b>Regular Inspection (Visual)</b>                                                                                                                               | <b>Before each use</b> | <b>Before each use</b> | <b>Before each use</b>                               |
| Web strap for melting, charring, burns, splatter, broken stitching, cuts or tears, abrasive wear, and knots                                                      | ✓                      | ✓                      | ✓                                                    |
| <b>Frequent Inspection (Visual)</b>                                                                                                                              | <b>Monthly</b>         | <b>Weekly</b>          | <b>Daily to weekly</b>                               |
| All functional mechanisms for proper operation not limited to raising, lowering, and freewheeling                                                                | ✓                      | ✓                      | ✓                                                    |
| Hooks and latches for deformation, chemical damage, cracks, and wear                                                                                             | ✓                      | ✓                      | ✓                                                    |
| Hook latch operation                                                                                                                                             | ✓                      | ✓                      | ✓                                                    |
| Levers for bends, cracks, or other damage                                                                                                                        | ✓                      | ✓                      | ✓                                                    |
| Hoist support for damage                                                                                                                                         | ✓                      | ✓                      | ✓                                                    |
| <b>Periodic Inspection (Record)</b>                                                                                                                              | <b>Annually</b>        | <b>Semi-annually</b>   | <b>Quarterly</b>                                     |
| Evidence of loose pins, nuts, or rivets                                                                                                                          | ✓ ✓                    | ✓ ✓ ✓                  | ✓ ✓ ✓                                                |
| Evidence of worn, corroded, cracked or distorted parts not limited to load blocks, housing, levers, clevises, yokes, gears, spool, locking, and clamping devices | ✓ ✓                    | ✓ ✓ ✓                  | ✓ ✓ ✓                                                |
| Evidence of damage to hook retaining nuts and pins                                                                                                               | ✓ ✓                    | ✓ ✓ ✓                  | ✓ ✓ ✓                                                |
| Evidence of worn pawls, cams, or ratchet                                                                                                                         | ✓ ✓                    | ✓ ✓ ✓                  | ✓ ✓ ✓                                                |
| Evidence of corroded, stretched, or broken springs                                                                                                               | ✓ ✓                    | ✓ ✓ ✓                  | ✓ ✓ ✓                                                |
| Warning labels are properly attached and legible                                                                                                                 | ✓ ✓                    | ✓ ✓ ✓                  | ✓ ✓ ✓                                                |
| Web strap end connections, terminations, and sections of rapid deterioration due to high contact or that are typically visually hidden                           | ✓ ✓                    | ✓ ✓ ✓                  | ✓ ✓ ✓                                                |

✓ Inspection by operator or other designated personnel.

✓ ✓ Inspection by designated person of conditions.

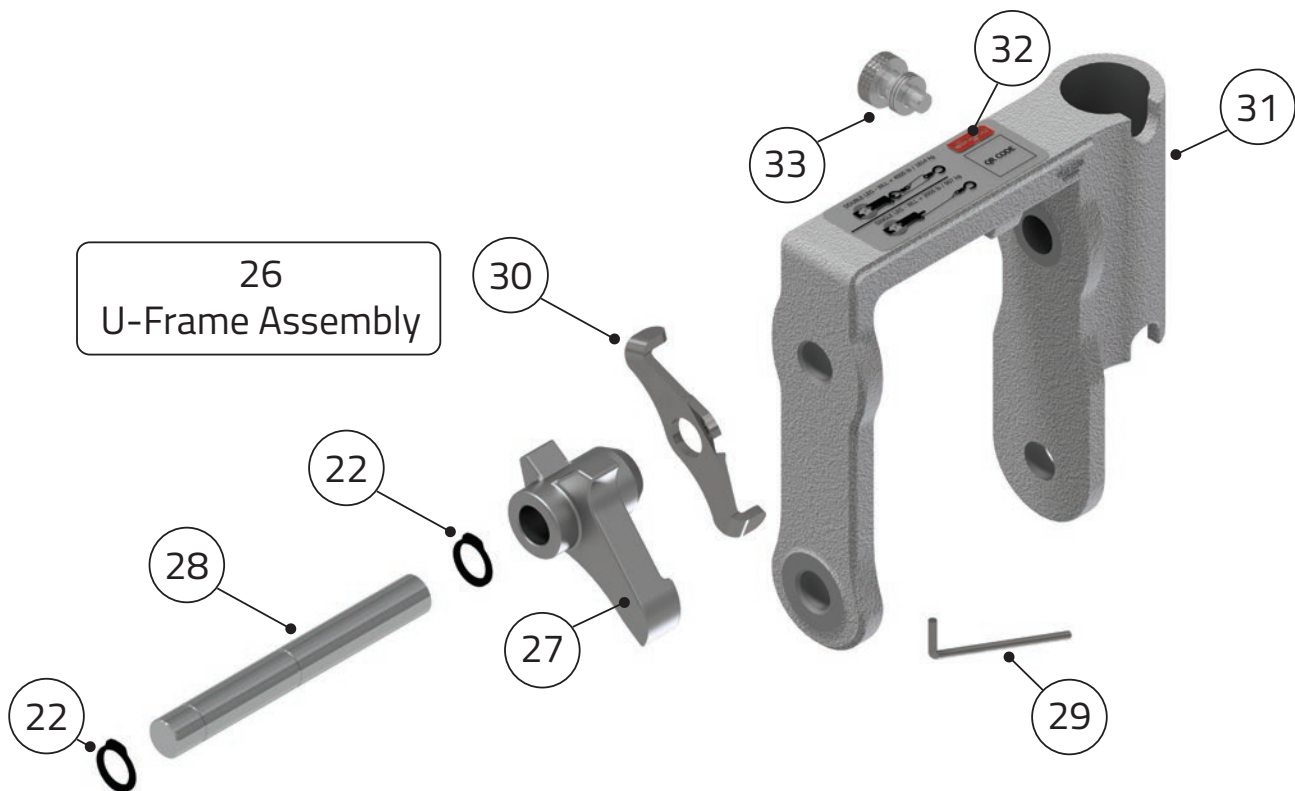
✓ ✓ ✓ Inspection by designated person of conditions unless disassembly is required for detailed inspection.

## PARTS LIST FOR ZLH14335 (4K HOIST)

| Item | Slingco Part Number | Description                      | Qty              |
|------|---------------------|----------------------------------|------------------|
| 1    | ZLH14420            | Drum Casting                     | Pack of 1        |
| 2    | ZLH14421            | Web Strap                        | Pack of 1        |
| 3    | ZLH16224            | Holding Pawl With Pin            | Pack of 10       |
| 4    | ZLH14422            | Holding Pawl Shaft               | Pack of 1        |
| 5    | ZLH13608            | Nylon Wheel                      | Pack of 1        |
| 6    | ZLH14423            | Drum Shaft                       | Pack of 1        |
| 7    | ZLH16227            | Torsion Spring                   | Pack of 10       |
| 8    | ZLH13620            | Ø 0.125" X 1.25" Roll Pin        | Pack of 20       |
| 9    | ZLH16229            | Ø 0.125" X 1.75" Roll Pin        | Pack of 20       |
| 10   | <b>ZLH14424</b>     | <b>Main Frame Assembly</b>       | <b>Pack of 1</b> |
| 11   | ZLH14425            | Hook                             | Pack of 1        |
| 12   |                     | N/A                              |                  |
| 13   | ZLH14426            | Main Frame Roller Guide          | Pack of 1        |
| 14   | ZLH14427            | Ø 0.25" X 2.5" Roll Pin          | Pack of 20       |
| 15   | ZLH14437            | 9/16"-12 Hex Slotted Flanged Nut | Pack of 10       |
| 16   | ZLH13619            | Ø 0.125" X 0.875" Roll Pin       | Pack of 20       |

| Item | Slingco Part Number | Description                         | Qty               |
|------|---------------------|-------------------------------------|-------------------|
| 17   | <b>ZLH14428</b>     | <b>Idler Roller Assembly</b>        | <b>Pack of 1</b>  |
| 18   | ZLH14429            | Yoke Casting                        | Pack of 1         |
| 19   | ZLH14430            | Yoke Roller Shaft                   | Pack of 1         |
| 20   | ZLH14431            | Yoke Roller                         | Pack of 1         |
| 21   | ZLH13561            | Latch Spares Kit                    | Pack of 10        |
| 22   | ZLH13617            | Steel Retaining Ring                | Pack of 20        |
| 23   | <b>ZLH14432</b>     | <b>Handle Assembly</b>              | <b>Pack of 1</b>  |
| 24   | <b>ZLH16228</b>     | <b>Control Casting Assy</b>         | <b>Pack of 10</b> |
| 25   | <b>ZLH14433</b>     | <b>Swivel Shackle Assembly</b>      | <b>Pack of 1</b>  |
| 26   | <b>ZLH14434</b>     | <b>U-Frame Assembly</b>             | <b>Pack of 1</b>  |
| 27   | ZLH14737            | Loading Pawl Casting                | Pack of 10        |
| 28   | ZLH14435            | Loading Pawl Shaft                  | Pack of 1         |
| 29   | ZLH13565            | Reversing Spring                    | Pack of 10        |
| 30   | ZLH13566            | Control Lever                       | Pack of 10        |
| 31   | ZLH14436            | U-Frame Casting                     | Pack of 1         |
| 32   | ZLH16202            | 4k Strap Hoist WLL Label Spares Kit | Pack of 10        |
| 33   | ZLH13613            | Handle Locking Screw                | Pack of 10        |

Note: Parts in bold can be purchased as full assemblies. Sub level parts which are used in these assemblies can be found underneath.



## PARTS LIST FOR ZLH14335 (4K HOIST) (CONT.)



## PARTS LIST FOR ZLH14335 (4K HOIST) (CONT.)

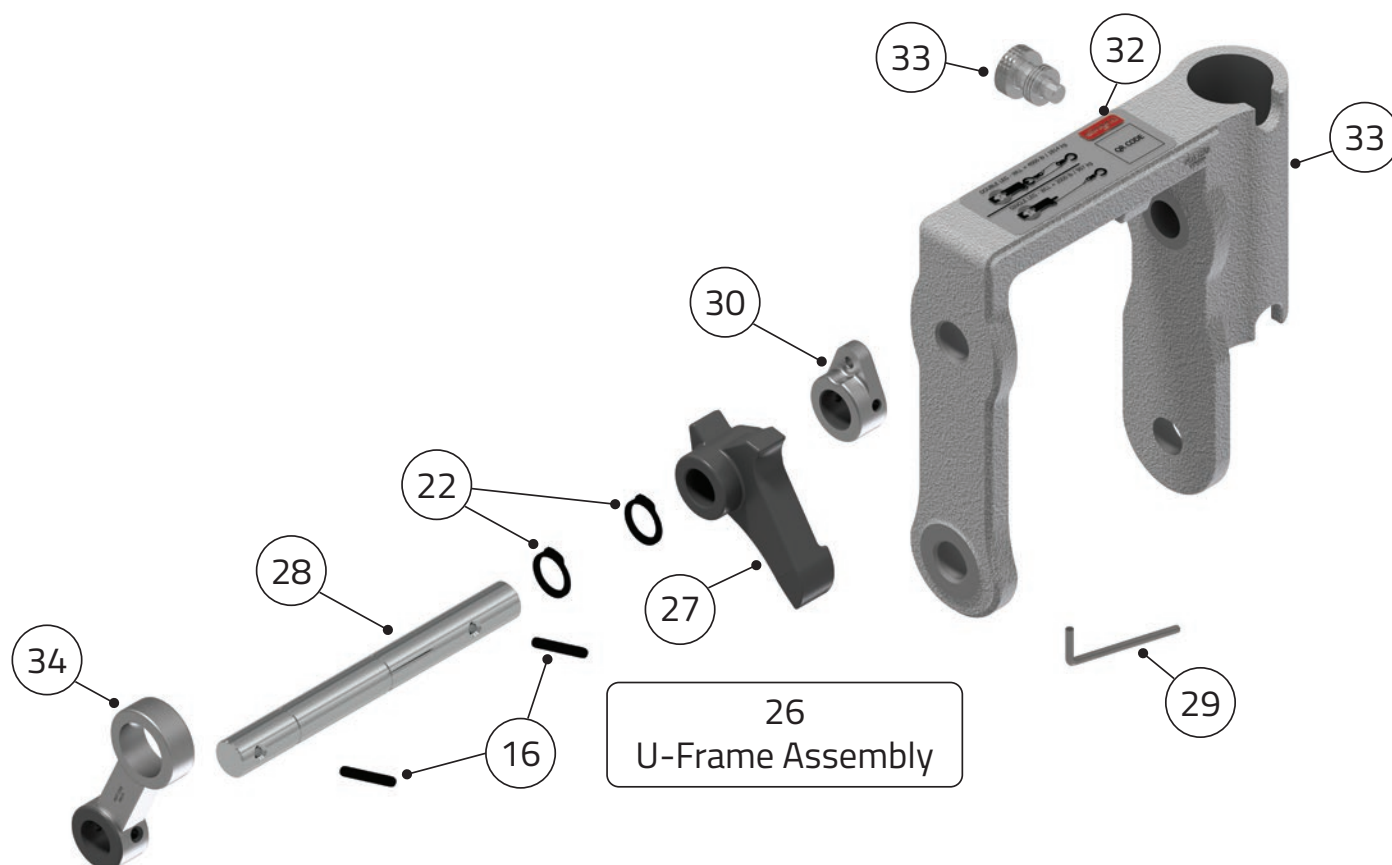


# PARTS LIST FOR ZLH14444 (4K HOT WORKS HOIST)

| Item | Slingco Part Number | Description                      | Qty              |
|------|---------------------|----------------------------------|------------------|
| 1    | ZLH14420            | Drum Casting                     | Pack of 1        |
| 2    | ZLH14421            | Web Strap                        | Pack of 1        |
| 3    | ZLH16225            | Holding Pawl With Pin            | Pack of 10       |
| 4    | ZLH14738            | Holding Pawl Shaft               | Pack of 1        |
| 5    | ZLH13608            | Nylon Wheel                      | Pack of 1        |
| 6    | ZLH14423            | Drum Shaft                       | Pack of 1        |
| 7    | ZLH16227            | Torsion Spring                   | Pack of 10       |
| 8    | ZLH13620            | Ø 0.125" X 1.25" Roll Pin        | Pack of 20       |
| 9    | ZLH16229            | Ø 0.125" X 1.75" Roll Pin        | Pack of 20       |
| 10   | <b>ZLH14739</b>     | <b>Main Frame Assembly</b>       | <b>Pack of 1</b> |
| 11   | ZLH14740            | Hook With Ring                   | Pack of 1        |
| 12   |                     | N/A                              |                  |
| 13   | ZLH14426            | Main Frame Roller Guide          | Pack of 1        |
| 14   | ZLH14427            | Ø 0.25" X 2.5" Roll Pin          | Pack of 20       |
| 15   | ZLH14437            | 9/16"-12 Hex Slotted Flanged Nut | Pack of 10       |
| 16   | ZLH13619            | Ø 0.125" X 0.875" Roll Pin       | Pack of 20       |

| Item | Slingco Part Number | Description                         | Qty               |
|------|---------------------|-------------------------------------|-------------------|
| 17   | <b>ZLH14741</b>     | <b>Idler Roller Assembly</b>        | <b>Pack of 1</b>  |
| 18   | ZLH14429            | Yoke Casting                        | Pack of 1         |
| 19   | ZLH14430            | Yoke Roller Shaft                   | Pack of 1         |
| 20   | ZLH14431            | Yoke Roller                         | Pack of 1         |
| 21   | ZLH13561            | Latch Spares Kit                    | Pack of 10        |
| 22   | ZLH13617            | Steel Retaining Ring                | Pack of 20        |
| 23   | <b>ZLH14742</b>     | <b>Handle Assembly</b>              | <b>Pack of 1</b>  |
| 24   | <b>ZLH16228</b>     | <b>Control Casting Assy</b>         | <b>Pack of 10</b> |
| 25   | <b>ZLH14743</b>     | <b>Swivel Shackle Assembly</b>      | <b>Pack of 1</b>  |
| 26   | <b>ZLH14744</b>     | <b>U-Frame Assembly</b>             | <b>Pack of 1</b>  |
| 27   | ZLH14745            | Loading Pawl Casting                | Pack of 10        |
| 28   | ZLH14746            | Loading Pawl Shaft                  | Pack of 1         |
| 29   | ZLH13565            | Reversing Spring                    | Pack of 10        |
| 30   | ZLH13923            | Control Lever                       | Pack of 10        |
| 31   | ZLH14436            | U-Frame Casting                     | Pack of 1         |
| 32   | ZLH16202            | 4k Strap Hoist WLL Label Spares Kit | Pack of 10        |
| 33   | ZLH13613            | Handle Locking Screw                | Pack of 10        |
| 34   | ZLH13918            | Hot Stick Lever                     | Pack of 1         |

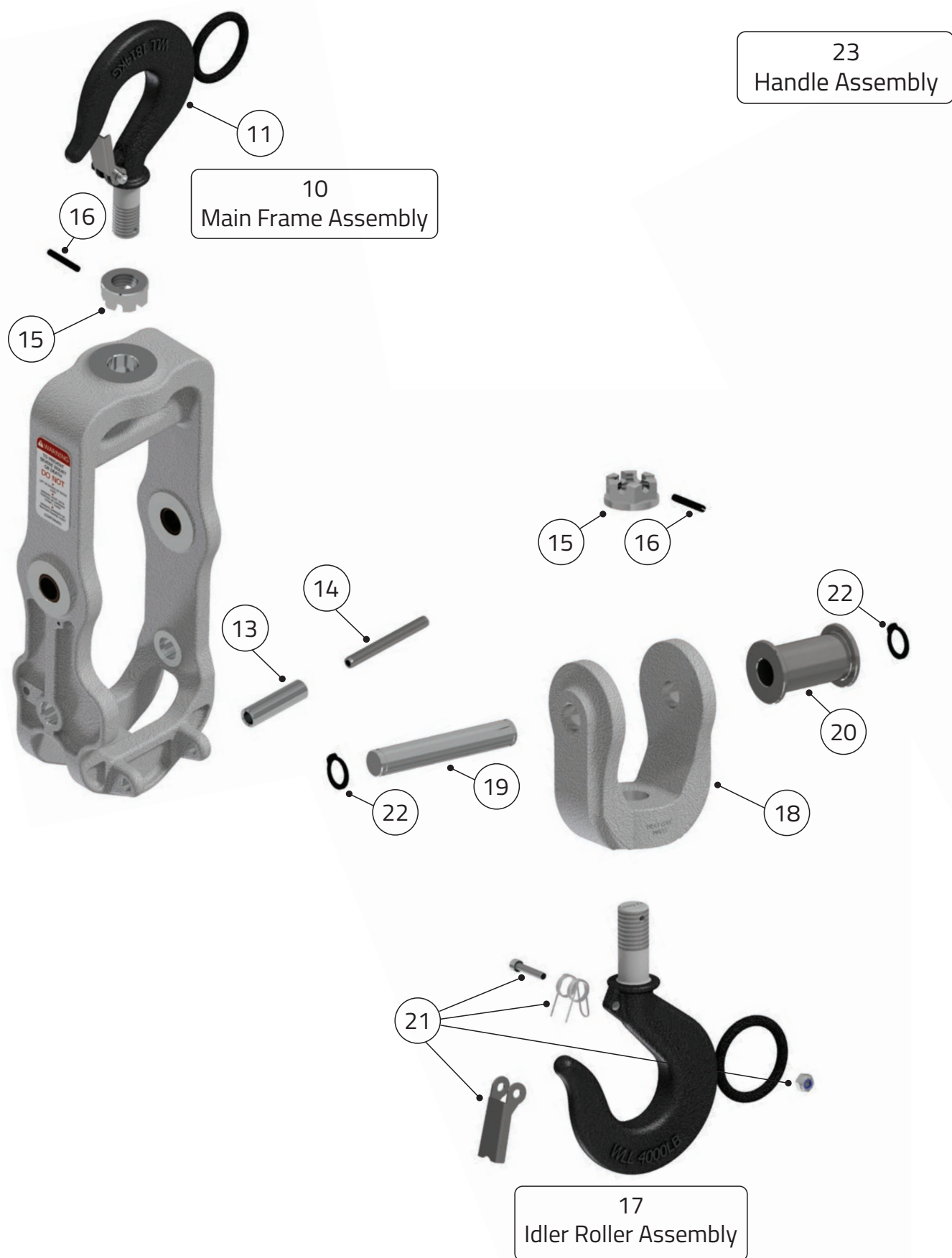
Note: Parts in bold can be purchased as full assemblies. Sub level parts which are used in these assemblies can be found underneath.



## PARTS LIST FOR ZLH14444 (4K HOT WORKS HOIST) (CONT.)



# PARTS LIST FOR ZLH14444 (4K HOT WORKS HOIST) (CONT.)



## **ATTENTION**

**READ** and **UNDERSTAND** all of the instructions and safety information in this manual before operating or servicing this tool.

Failure to read and understand these warnings and safe handling instructions could result in severe personal injury or death.

**KEEP THIS MANUAL WITH TOOL.**

## **WARNING**

Cancer and Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



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