

For ED3, ER2, ER1 type electric chain hoists

1. Safety Precautions



- By referring to the compatibility chart in section 3, check if the part code of your self-locking hook is compatible with the electric chain hoist you wish to install.
- This owner's manual contains information specific to the self-locking hook. Before use, also read the owner's manual (instruction manual) for electric chain hoist to ensure proper operation.

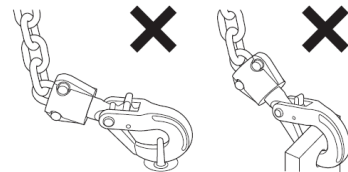


Mandatory

- Be careful not to get your hands or fingers caught in the moving parts when operating the trigger.
- Keep your hands away from the hook when hoisting a load. There is a risk of hands or fingers getting trapped when the latch closes.

Hanging at the tip

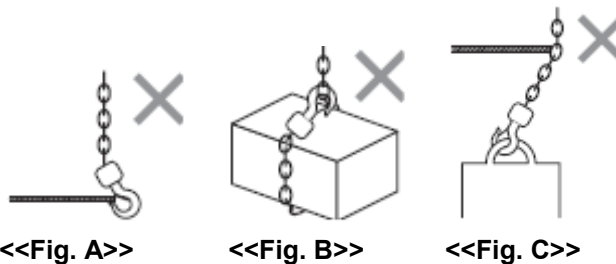
- When hanging the hook in the hole of an eyebolt, make sure before using it that the hook goes until the center of the hole. If a load is applied at the tip of the hook, it may cause deformation of the hook or damage to the locking mechanism part.
- Before lifting, make sure that the hook is properly closed and does not open.



- Do not lift a load that exceeds the lifting capacity.
- Do not use a faulty trigger or a latch that cannot be locked.
- Do not hang a load in such a way that the hook hits the load.
- Do not apply any load to the hook tip or the latch. <<Fig. A>>
- Do not use the load chain by wrapping it directly around the load. <<Fig. B>>
- Do not allow the load chain to come into contact with sharp edges (sharp corners). <<Fig. C>>

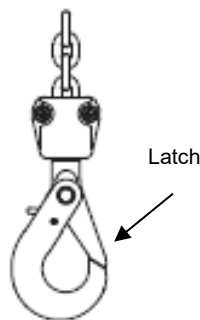


Prohibited

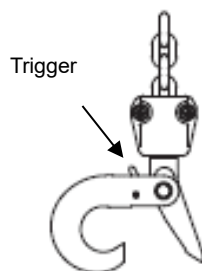


Failure to comply with these instructions may result in death or serious injury.

2. Handling Method for Self-locking Hook



When closed



When opened

- Lifting the hook while pressing the trigger releases the self-locking device and opens the hook.
- When a load is hung on the hook and the hook is closed, the locking device is automatically activated and the hook will not open.

3. List of compatible models/parts Part name: Self-locking hook device

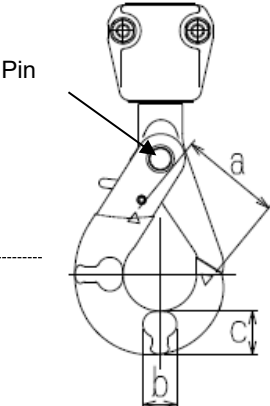

Type	Capacity	Speed sign	Part code
ED3	480 kg	S•ST•SD	E3DBX48S3660
ER2	250 kg	H•IH	ER2CH3660
	490 kg	L•IL•S•IS	ER2CL3660
	500 kg	L•IL•S•IS	ER2CS3660
	1 t	L•IL•S•IS	ER2DS3660
ER1	500 kg	L•LD•S•SD	ER1CS3660
	1 t	L•LD•S•SD	ER1DS3660

4. Checking Self-locking Hook

For daily inspection, refer to the owner's manual of the electric chain hoist. Also, make sure that the hook trigger is intact. Furthermore, make sure that the hook locking function works properly. According to the following table, periodic inspections should be carried out as frequent inspections.

<Periodic inspections> Frequent inspection

⚠ DANGER Do not use parts that exceed the service limit or criteria. Always use genuine KITO replacement parts.

Item	Check method (Visual and vernier caliper measurements)	Service limit and criteria	Handling method																										
(1) Mouth opening		Measure a, b, and c at the time of purchase, and record the values in the table below for inspection as standard values. <table border="1" data-bbox="670 918 1284 1209"> <thead> <tr> <th>Standard values (mm)</th> <th>Limit value</th> </tr> </thead> <tbody> <tr> <td>Dimension a=</td> <td>The standard value shall not be exceeded.</td> </tr> <tr> <td>Dimension b=</td> <td>Abrasion of 5% or more</td> </tr> <tr> <td>Dimension c=</td> <td>Abrasion of 5% or more</td> </tr> </tbody> </table>	Standard values (mm)	Limit value	Dimension a=	The standard value shall not be exceeded.	Dimension b=	Abrasion of 5% or more	Dimension c=	Abrasion of 5% or more	Replace the hook																		
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Dimension c=	Abrasion of 5% or more																												
(2) Abrasion	<ul style="list-style-type: none"> The nominal standard values are showed for reference. The hooks are forged and heat-treated, please be aware that these values include tolerance. <table border="1" data-bbox="670 1377 1484 1713"> <thead> <tr> <th rowspan="2">Capacity</th> <th colspan="2">Dimension a (mm)</th> <th colspan="2">Dimension b (mm)</th> <th colspan="2">Dimension c (mm)</th> </tr> <tr> <th>Standard</th> <th>Limit</th> <th>Standard</th> <th>Limit</th> <th>Standard</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td>500 kg or less</td> <td>46.5</td> <td>16.0</td> <td>15.2</td> <td>20.5</td> <td>19.5</td> <td></td> </tr> <tr> <td>1 t</td> <td>59.0</td> <td>20.0</td> <td>19.0</td> <td>26.0</td> <td>24.7</td> <td></td> </tr> </tbody> </table>	Capacity	Dimension a (mm)		Dimension b (mm)		Dimension c (mm)		Standard	Limit	Standard	Limit	Standard	Limit	500 kg or less	46.5	16.0	15.2	20.5	19.5		1 t	59.0	20.0	19.0	26.0	24.7		Replace the hook
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(3) Deformation and scratches		<ul style="list-style-type: none"> No deformation such as bend or twist. No deep cut. No loosened pin, bolt, or nut or their fall off. No considerable corrosion. No attachment of foreign matter such as sputter. 	Replace the hook																										
(4) Hook and trigger movements		<ul style="list-style-type: none"> The hook should turn lightly. The trigger and the locking device should work properly. 	Replace the hook																										