

AWAH Z3-FIRE

User Manual

Safety Instructions

Warnings

CE 0123

EN 12841:2024-B/C

30-285 kg, Rope EN 1891-A Ø 11.0 mm

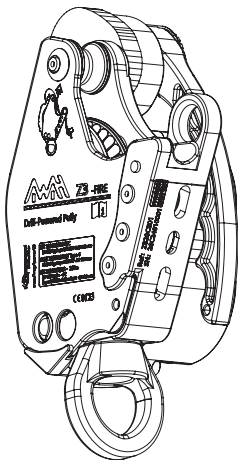
ANSI Z359.9:2021 / Type 4

30-240 kg, Rope EN 1891-A Ø 11.0 mm

EN 341:2011/2A - 200m

30-195 kg; T > -4° C

Rope ARETE Task Line Static Ø 11.0 mm



USA Version 2.8 (English)

DRILL POWERED PULLEY

Product name	Drill Powered Pulley
Applicable models	Z3-FIRE
Product type	Pulley / Ascender / Descender
Certified standards	EN 12841:2024-B/C 30-285 kg, Rope EN 1891-A Ø 11.0 mm ANSI Z359.9:2021 / Type 4 30-240 kg, Rope EN 1891-A Ø 11.0 mm EN 341:2011/2A - 200m 30-195 kg; T > -4° C Rope ARETE Task Line Static Ø 11.0 mm CE 0123
Designation of Use	The Z3-FIRE is a Drill-Powered Ascender / Descender / Pulley designed for industrial and rescue PPE use. In PPE relevant applications this equipment is to be used by trained PPE persons only. Ensure a rescue plan is in place to deal with any emergencies that could arise during PPE use.
⚠ Note	The manufacturer always requires the use of a backup system when used as PPE.
Language	English



AWAH Z3 Drill Powered Pulley

Please read the manual and understand the contents before using the device.

Please keep this instruction manual safe and available to record any repairs or maintenance done on the unit.

This manual describes techniques and methods for correct product use. Please pay extra attention to the warning signs, which identify the potential hazards and special precautions for using this product. These warnings are not exhaustive, for more information or updated versions of instructions please visit the company's website or the WeChat official account. It is the user's responsibility to read all instructions and use this product correctly, any misuse will cause safety risks. If you have any questions or do not fully understand this manual, please contact us.

Declaration of Conformity

The AWAH Z3-FIRE Drill Powered Pulley is tested and certified in accordance with PPE Regulation (EU) 2016/425. EU Type Examination (Module B) certificate No. **P5A 137432 0001 Rev. 00** issued by TÜV SÜD Product Service GmbH (Notified Body No. 0123). Please refer to the EU Declaration of Conformity for details, available for download here: <https://www.linegrip.com/z3-certificate/>.

EU Type-Examination is performed by: TÜV SÜD Product Service GmbH, Riedlerstraße 65, 80339 München, Germany.

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1. Responsibilities and warnings

Any work involving the use of this product is dangerous. Users are responsible for and bear the consequences of their actions, decisions, and safety. Do not use this product if you cannot assume responsibility or cannot fully understand this manual.

1.1 Before using this product, you must:

- Read and understand this User Manual completely.
- Take specific training for the proper use of this product in a safe environment.
- Familiarize yourself with this product, understand its performance, the restrictions of using and the potential hazards associated with using this device.
- Understand and accept the dangers involved.

1.2 This product is intended for use only by trained, competent and responsible individuals with good knowledge about PPE against falls from a height.

1.3 Ignoring any of these warnings can result in damage to property, serious injury, or even death.

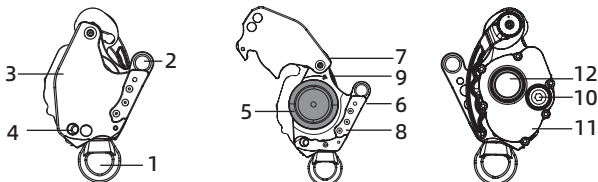
1.4 The manufacturer does not assume any responsibility for any direct or indirect results such as property damage, personal injury or death caused by the use of this product.

1.5 It is recommended to purchase commercial insurance for users and goods to cover property damage, personal injury or death caused by possible operational errors.



2. Product introduction

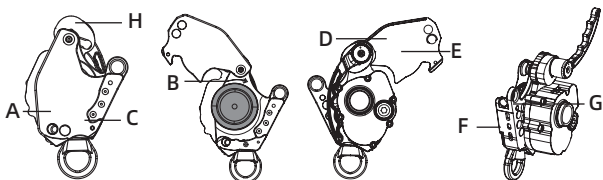
2.1 Product illustrations



- | | | |
|--|---|---|
| 1 Main attachment hole (Swivel) | 2 Becket | 3 Movable panel |
| 4 Fixed button | 5 Wheel | 6 Friction block ① |
| 7 Guide bearing for rope entry | 8 Guide bearings for rope exit ② | 9 Handle for Releasing |
| 10 Electric drill adapter interface | 11 Gearbox | 12 Backup self-locking mechanism |

① The Z3-FIRE is equipped with one stainless steel friction block

② The Z3-FIRE has three guide/pressure bearings for rope exit



- | | | |
|--|---|-------------------------------------|
| A Name & Model | B Indication of the rope direction | C Read the manual before use |
| D QR code for electronic manual | E Specifications | F Serial number |
| G Becket MBS | H Indication of handle position | |

25 A 00 XX 0000-XXXX

Year of manufacture ...

... Identifying code

Month of manufacture

Serial code

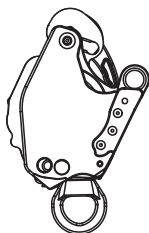
Day of manufacture

Batch code

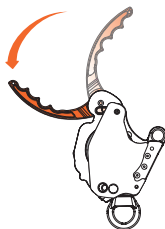
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Figure 1 Indication of handle position



Lock



Descent

Figure 2 Load the rope

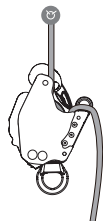
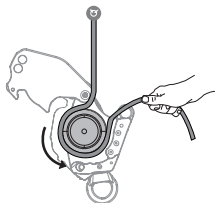
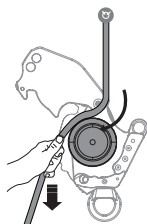
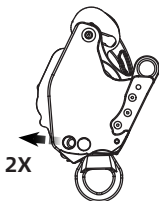


Figure 3 Functional checks

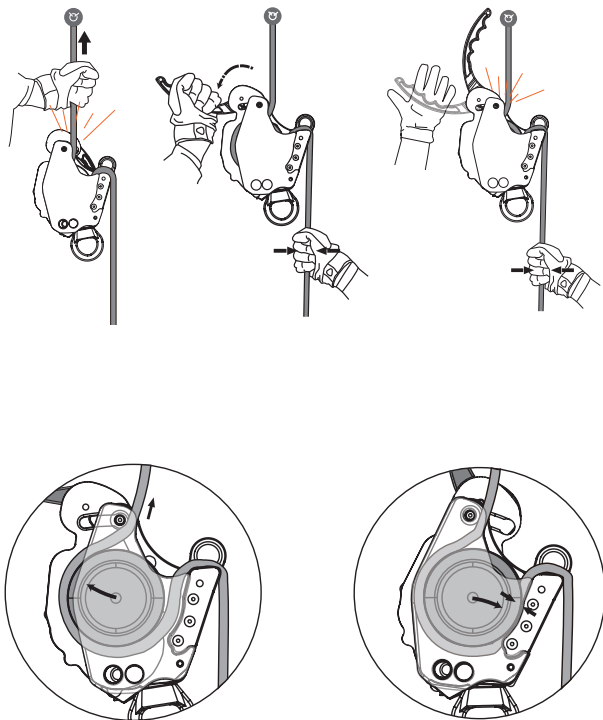


Figure 4 Lifting

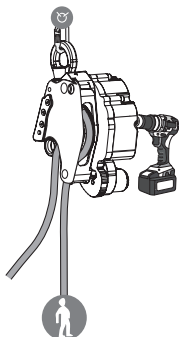
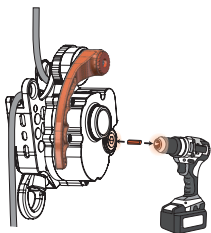


Figure 5 Lowering

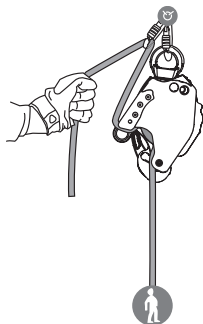
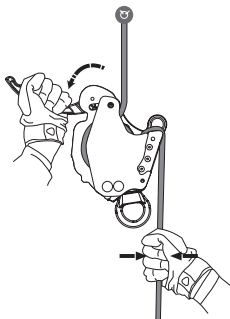
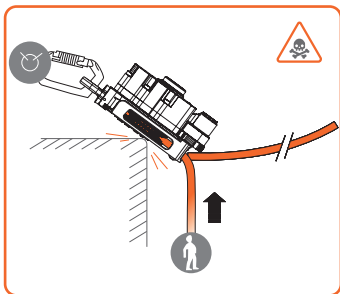
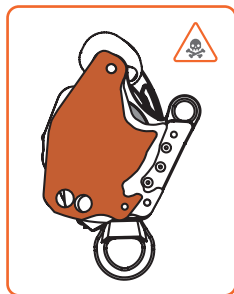
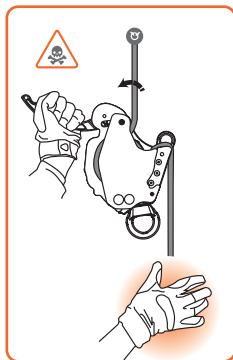
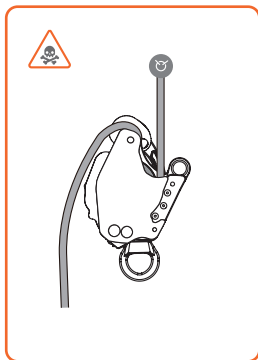
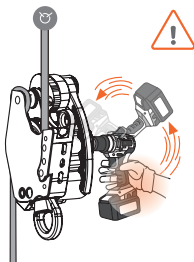
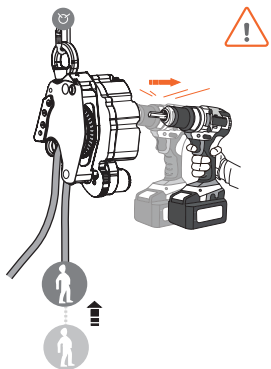


Figure 6 Warnings of incorrect operation

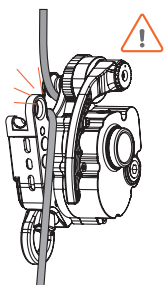
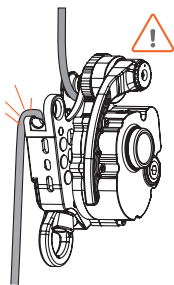




After releasing, the drill will rotate, may cause injury.



Pulling out the drill during lifting will activate the backup self-locking mechanism, causing equipment damage.



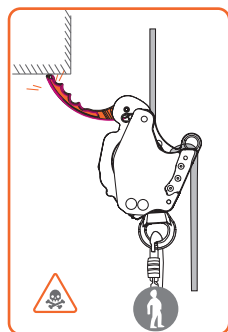
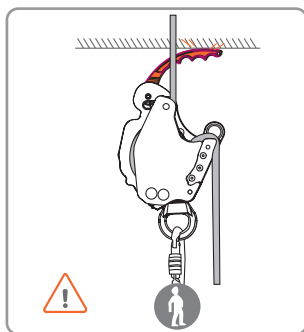


Figure 7 Locking off the rope

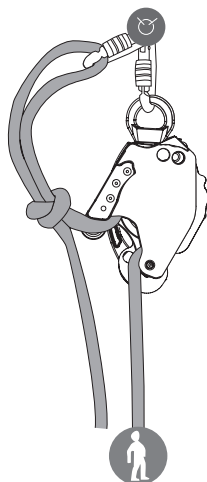
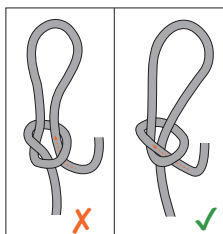


Figure 8 Risks of entanglement

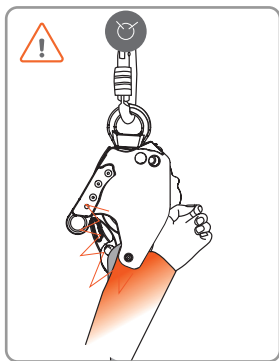
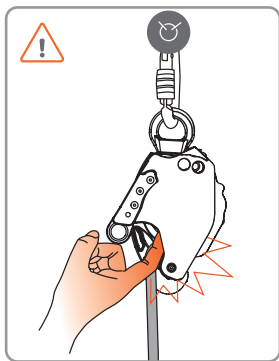
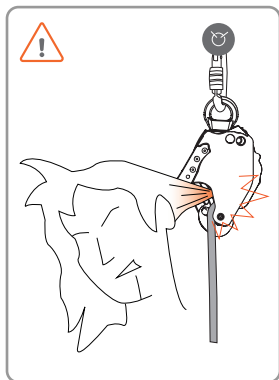
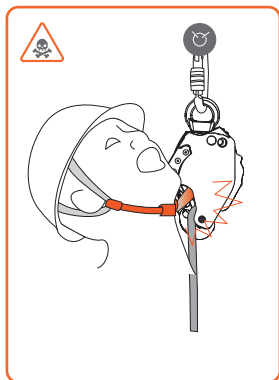


Figure 9 Backup when used as lifting system

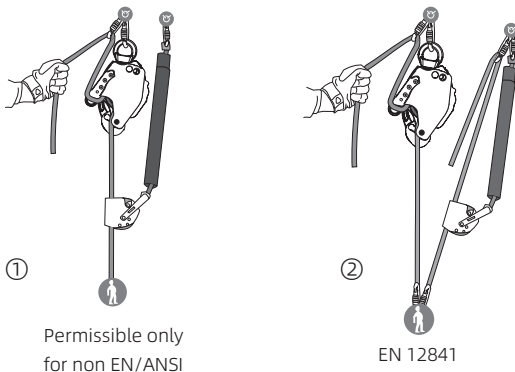
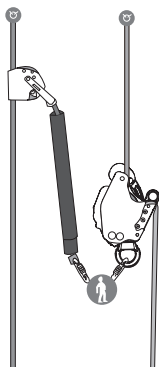


Figure 10 Backup when used "on person" EN 12841



- Guides at anchor points must be secured above the user.
- The rope adjustment device must be positioned as high as possible above the harness's attachment point.
- The intended use of rope-adjusting devices of types B and C for moving along the working rope must be combined with a rope-capture device of type A and a separate safety rope, unless a risk assessment has demonstrated that an alternative configuration would reduce the risk to persons.

2.2 General information

2.2.1 Product introduction

AWAH-Z3 is an ascender driven by an electric drill and also a manual descender. It can be connected to an electric drill to provide lifting power. It can be used for efficiently pulling, holding, lifting and lowering persons.

Note: This product has a built-in self-locking mechanism that activates in the event of gear failure. In the event of internal gear failure, the device will lose its one-way locking function, and the wheel will rotate freely. After falling approximately 10 cm, the self-locking mechanism engages, locking the wheel and clamping the rope to stop further uncontrolled descent.

 **Warning:** After the self-locking device is activated, persons should be carefully lowered to the ground. Subsequently, stop use of this equipment immediately and scrap it, or return it to the factory for repair.

2.2.2 Scope of use

2.2.2.1 This product is mainly used to lift or lower persons.

2.2.2.2 This product is equipped with a hexagonal interface and an adapter shaft (8 mm or 5/16"). To lift persons, use an electric drill to turn the adapter shaft clockwise, counterclockwise rotation is idle.

2.2.2.3 Use in environments with chemical hazards such as seawater or corrosive liquids and gases will lead to a reduced product lifespan. This can cause safety hazards, the product should not be used in the above environments.

2.3 Regulations for Person Transport (PPE)

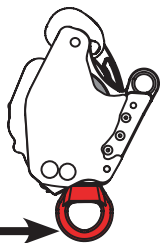
2.3.1 Use according to EN 341:2011, Chapter 7:

the use of a chest strap (chest harness) is recommended to ensure upright person orientation, and avoid unintentional tipping over.

permissible connectors for attaching the Z3 pulley to the harness, and the rope to the anchor point:

Per EN standards and depending on the field of application, for the connection use only EN 362

connectors specific for work at height or EN 12275 connectors specific for mountaineering activities, both types equipped with locking gates only. Use only the swivel as connection point.



Use only the swivel as connection point

- Maximum descent energy: 7.5 MJ.

Energy is calculated as: user weight $\times$ gravity $\times$ descent distance $\times$ number of descents.

- Max. descent distance is 200m @ max. 195kg.
- Descent speed must be carefully controlled, as regaining control after loss can be difficult (@ max. load: 0.5m/s, @ min. load: 2m/s).

Excessive speed or overly long descents may cause the Z3-FIRE wheel (pulley sheave) to overheat, potentially damaging the rope. Allow the wheel to cool before attempting another descent.

- EN 341 testing temperatures: -40°C in dry conditions and -4°C in cold and wet conditions.

When attaching the Z3-FIRE to an anchor, ensure the setup does not obstruct or affect the descent.

Confirm that the descent path is clear of any obstacles.

To help prevent falls and swinging, keep the rope between the Z3-FIRE and the load free of slack and as vertical as possible.

According to the EN 341 standard, the Z3-FIRE is intended as a descender for rescue applications only.

- EN 341 application is permissible only with rope ARETE Task Line Static 11 mm.

2.3.2 Use according to EN 12841:2024, Chapter 7:

- The Z3-FIRE is a descender & ascender designed for movement along a rope with a maximum working load of 285 kg. In rescue scenarios involving two people, it may also be used with loads up to 285 kg (always and only with ropes 11 mm in diameter).

Guides at anchor points must be secured above the user.

The Z3-FIRE must be positioned as high as possible above the harness's attachment point.

- Type B and C devices are intended for rope progression and must always be paired with a type

A backup system (such as an ASAP) installed on a separate backup rope, unless a risk assessment has demonstrated that an alternative configuration would reduce the risk to persons.

To minimize the chance of falling or swinging, ensure the rope between the Z3-FIRE and the anchor point remains as taut and vertical as possible.

- Rope used during EN 12841 type C certification testing: ARETE Task Line Static 11mm.

2.3.3 Use according to ANSI Z359.9:

- Maximum allowable descent distance is 200 m.
- Maximum allowable working load is 240 kg.

The Z3-FIRE may be used for repeated descents, provided care is taken to prevent the wheel (pulley sheave) from overheating.

Only use anchor points with sufficient performance for the intended purpose (e.g. CEN TS16415, EN795), located above the user position, and set them up so they do not weaken the anchor or allow unintended movement during operation. Before loading the system fully, carry out a tension check on the connection.

Refer to Page 43, Appendix 1 for an explanation of the markings.

No alterations or additions may be made to the Z3-FIRE without the manufacturer's written consent.

- Rope used during Z359.9-2021 certification testing: ARETE Task Line Static 11mm.

2.4 Technical specifications AWAH Z3-FIRE

Weight:	2.33 kg
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Rope Compatibility for PPE use:	EN 1891-A 11mm EN 341: ARETE Task Line 11mm
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UHMWPE or polypropylene ropes are prohibited!

Rope Compatibility for NON PPE use:	EN 1891-A 10-11mm
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Load range:	30-285 kg (see page 1 for application)
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Becket MBS:	22 kN
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Torque of electric drill:	100-180 Nm (brushless recommended)
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Drill type:	Cordless drill/driver (No Impact Drills!)
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Descent speed limit:	0.5 m/s (Max Load) ~2.0 m/s (Min Load)
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Operating Temperature:	-15° C~45° C / 5 °F ~113 °F EN 341: -4° C~45° C / 25 °F ~113 °F
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Dust and waterproof:	IP66
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Life span:	This device has no retirement life span. 6 years until general gearbox service!
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2.5 Compatible parts

2.5.1 The electric drills connected to this product should meet the torque requirements in section 2.4. It is strictly forbidden to use electric hammers, electric wrenches, impact drills, screwdrivers and other power tools with rotary impact or radial impact functions. Do not use the impact gear setting of electric drills. **The impact function can damage the gears.**

2.5.2 The thickness of the rope directly affects the load that this product can carry, that is, the thinner the rope, the more likely it is to slide under lower loads. The use of spiral ropes, wire ropes, flat belts (ropes) or chains is forbidden. **Ultra-high molecular weight polyethylene ropes or polypropylene ropes are prohibited.**

⚠ Note 1: The greater the load, the faster the rope will wear out. The longer it is used, the more wear and tear the rope will see.

⚠ Note 2: The life of ropes varies greatly depending on the quality, refer to the information provided by the rope manufacturer to assess whether the rope should be scrapped.

3. Safety Rules

The user should have the corresponding theoretical knowledge and practical ability of working at height, and must read and understand this manual completely. Safe operation of this device requires mastering the operating principles, knowing its usage limitations and understanding the potential hazards associated with using this device.

3.1 When using this product, do not use connectors or ropes that do not meet the requirements of this manual. The device is strictly limited to use within the nominal load range. Overloaded use will shorten the life of this product. Serious overload may damage the device during one use (including damage to the gears and compatible parts such as ropes, connectors and electric drills).

3.2 Users must be medically fit for work at height. Users with physical illnesses, psychological conditions, or substance dependencies—such as high blood pressure, heart disease, dizziness, acrophobia, or frequent alcohol use—may be at increased risk and could compromise the safe operation of the device. If

you feel unwell, please immediately stop working with this product.

3.3 Before use, a sufficiently wide isolation area should be set up. Supervision should be arranged, and unrelated persons should be prohibited from entering the work area to prevent being injured by falling objects or the work system from being damaged by someone.

3.4 Users should take protective measures in advance. Correctly wear harnesses, gloves, helmets, goggles, shoes and other PPE suitable for the nature of work that meet relevant standards. This prevents accidents such as falling from height, electric shock, extrusion, impact, and rope breakage.

3.5 When lifting or lowering, it is recommended to equip a personal protective equipment (PPE) backup system, as shown in Figure 9.

3.6 When the lowering is more than 100 kg, please clip a carabiner as shown in Figure 9, pass the rope tail through the carabiner and fold back to increase friction and prevent loss of control.

3.7 To prevent damage to persons, ropes, and this product, do not obstruct the path of lifting and

lowering.

3.8 This product may generate high temperatures during lowering, which can lead to a decrease in braking performance and may melt the rope sheath. It is advisable in this scenario to slow down the descent, or wait for it to cool down.

3.9 During lifting, if the rope continues to slip at the same position for more than 30 seconds, the rope is highly likely to melt and break, so special attention should be paid.

3.10 Do not use excessively thin or soft ropes, as there is a risk of them being caught in the wheel.

3.11 This product will gradually wear out during normal use, users should strictly carry out pre-use inspections, in-use inspections, regular inspections, and scrap assessments to timely evaluate whether the device can continue to serve.

3.12 This product is not intended for fall arrest. Do not connect into a fall-arrest system as an energy-absorbing component. Overloading can damage the rope.

4. Operating Instructions

4.1 Loading the rope

- (1) Clip the connector into the swivel.
- (2) Open the movable panel and load the rope.
- (3) Close the movable panel.
- (4) Check to make sure the handle is in the locked position.

4.2 Installing a backup system

Figure 9 shows two modes of backup systems. A fall arrest system or rope clamp that complies with the relevant standards or is certified and rated for the full load is recommended. Keep slack to a minimum and verify fall clearance.

 **Attention:** Some fall arresters cannot effectively stop falls on taut ropes and cannot be used in the way shown in Figure 9 ①. They can only be used in the way shown in ② (Attention should be paid to whether the extension of the rope after a fall occurs is within the allowable safety range).

 **Warning 1:** The amount of slack in the backup system should be as small as possible to reduce the impact

of the fall. The backup system should have a certain degree of flexibility to cushion the impact of the fall.

 **Warning 2:** The load to be lifted or lowered should be within the allowable range of the backup system, and overload use will be a safety risk.

 **Warning 3:** There should be adequate clearance distance under the backup safety system to prevent hitting obstacles or the ground when falling.

4.3 Lifting

4.3.1 Lifting manually. This product can be used as a one-way pulley.

4.3.2 Lifting by electric drill. This product only supports the clockwise rotation of the electric drill to input power to lift.

 **Warning:** When lifting, always ensure that the release handle is in the locked position to prevent falling.

4.4 Lowering

4.4.1 Prepare for lowering.

(1) Load the rope correctly;

(2) Check to ensure that the handle is in the locked position.

4.4.2 Descent steps.

(1) Grasp the control end of the rope tightly with your right hand.

(2) Slowly turn the release handle with your left hand.

(3) Begin to descend slowly after obtaining appropriate friction; during the descent, the right hand maintains control of the control end of the rope, and it is strictly forbidden to take off the hand;

(4) To pause the descent, turn the release handle to the locked position.

(5) In case of emergency, the release handle can be quickly and completely released to allow it to quickly rebound back into the locked position to quickly stop the descent, but it is not recommended to use this method frequently due to possible impact force.

4.5 Rope retraction

Attach drill and run clockwise to retract rope quickly. Ensure handle is locked before spinning.

5. Device checks

5.1 Check before use

Before using this product, inspect and test that you have the correct rope, correct connecting components, and that the backup system is functioning properly.

 **Note:** Other connecting components are also necessary for systematic safety, please refer to the information provided by the relevant manufacturer to check as required.

5.1.1 Check whether this product has deformation, corrosion, cracks, severe wear, sharp surfaces, etc. If any, stop using it immediately.

5.1.2 Check the cleanliness of components such as wheel, friction block, etc. If they have grease, it will reduce the friction, which could result in an accidental fall. If they have grains of sand, it will accelerate wear and tear.

5.1.3 Check whether the rope is broken, the rope sheath is damaged, partially thickened/thinned, partially bulged/sunken, severely fuzzy, excessively hardened/soft, entangled, knotted in the middle, or

dirty, or the rope has been in contact with substances that could weaken the performance (such as oil, acid, alkali, unknown chemicals, etc.). If there are any, replace the rope with one that has no safety hazards.

5.1.4 If the noise of gears has significantly increased when running, abnormal jitter, unable to lift, unstable work or stuck, etc., it may indicate that the bearings or gears are worn excessively. The device should then be retired.

5.1.5 Before official use, at least 1 lifting and lowering test should be taken. It is recommended that the lifting height is not more than 30 cm / 12 inches. Pay attention to listen to whether the "click" sound emitted by the ratchet working is deep and even. If the sound is not normal, the device may be faulty and should immediately stop being used.

5.2 Inspection during use

5.2.1 During the lifting process, pay close attention to the abnormal situation of the device in accordance with the requirements of 5.1.4 and 5.1.5.

5.2.2 During the lifting process, it is necessary to observe whether the rope is sliding in the wheel, as

continuous sliding can generate high temperatures and cause damage to the rope.

5.2.3 During the descent process, the temperature of the wheel and friction block should be paid close attention in accordance with the requirements of 3.7.

5.3 Regular inspection

Carry out a comprehensive inspection every 6 months. In addition to the pre-use inspection items, the following items should be checked:

5.3.1 Check the friction components, if the wear is excessive, it should be scrapped in time or contact the manufacturer for replacement.

5.3.2 This product has been lubricated internally and is maintenance-free under normal conditions. If abnormal noise is observed, a qualified technician may add high-temp grease via the service port.

 **Warning:** Do not add liquid lubricating oil as it will cause the failure of the self-locking device.

5.3.3 Check the moving parts and springs of the release handle. If they are stuck, clean them thoroughly and apply lubricating grease.

5.3.4 Check all fixing bolts of the product. If they

protrude above the mounting surface, they are loose. Please tighten them. If the bolts loosen repeatedly, add a small amount of low-temperature anaerobic glue, tighten them, and let stand and solidify before use.

5.4 Scrap assessment

A comprehensive inspection should be carried out every 12 months, and in addition to the regular inspection items, the following items should be checked:

5.4.1 The product is being stored in a dry, cool, sealed environment without corrosive liquids/gases. Under these conditions, the theoretical lifespan of the lubricating oil in the bearings of this product is 6 years.

5.4.2 Wheel wear should be evaluated using a rope with the nominal minimum diameter and the rated maximum load. Suspend the weight so it remains stationary, and ensure the release handle is in the locked position. Keep rope straight, hands off. Any measurable slide indicates the wheel must be replaced, returned to the factory for maintenance, or the device should be scrapped.

Note: The jamming of the guide bearings for

rope entry and/or exit can lead to a decrease in lifting performance, which can be mistakenly judged as wheel wear. The lifting ability of different ropes varies, which may also lead to misjudgment.

5.4.3 Ensure that the lifting and lowering load, running distance, and inspections are being recorded. If any item on the Inspection record is approaching its wear limit, perform more rigorous pre-use, in-use, and periodic inspections at shorter intervals.

5.4.4 If there is any doubt about the security of the device, you should immediately stop using it and contact the manufacturer for technical support.

6. Storage and maintenance

Good storage and maintenance can extend the life of this product.

6.1 Storage recommended 10~30°C / 50~86 °F for longevity, short-term storage outside this range is safe. Avoiding water ingress, moisture, corrosive liquid and corrosive gas erosion, as well as avoiding heavy pressure and falls from height will extend the lifespan of this product.

6.2 During transportation, a bag or box with a cushioning capacity should be used to protect this product from severe impact, contact with sediment and dust, etc.

6.3 After each use, this product should be wiped clean with a clean damp towel, and then ventilated to dry, not exposed to the sun. Avoid sweat and other corrosive liquids staying on the surface for a long time and causing corrosion.

6.4 Regularly inspect the handle moving parts, guide bearing for rope entry, and guide bearing for rope exit, clean up dirt and add lubricating oil.

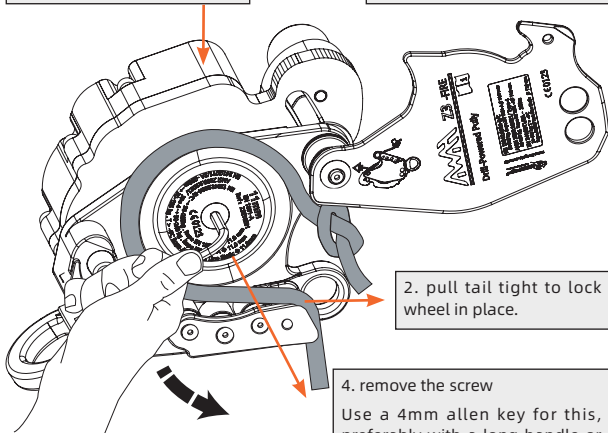
6.5 Except for replacing the wheel, any modification, replacement or repair of this product can only be carried out by the manufacturer or authorized distributor, and self-disassembly, modification and repair are strictly prohibited.

6.6 Wheel (pulley sheave) replacement.

Note: For PPE application only use CE marked wheels with the respective EN/ANSI standards clearly marked on it!

3. press down hard to further block wheel and stop it from spinning.

1. Insert a rope with a knot as seen here (the knot is important).



2. pull tail tight to lock wheel in place.

4. remove the screw

Use a 4mm allen key for this, preferably with a long handle or a ratchet with bit. If not possible, heat up slightly with a small gas torch to break the Loctite.

6. remove the wheel

If it won't come off, heat up slightly(!) with a small gas torch, then it will fall off when the device is flipped over.

5. after the screw is removed, unlock the rope by pulling the release handle, then remove the rope (it's not needed for tightening the screw)

7. attach the new wheel

If it fits too tightly, heat the rear center cavity slightly(!) with a small gas torch, then it will drop in place.

Add a drop of Loctite to the screw and tighten it with 8 Nm using a torque wrench!

7. Limited Warranty

The manufacturer provides a one year limited warranty for defects in the materials and production process of the product.

The warranty does not cover damage to the product caused by wear, deformation, corrosion, oxidation, self-modification or repair, incorrect operation, improper storage and transportation, and other usage than for which it was designed.

Tips: Please pay close attention to the information on the official website, register the product on our WeChat official account, and keep your contact information open to ensure that you do not miss possible product defect recall notices.

AWAH Z3 Repair record

Device name:

SN:

No.	Repair items	Repairer	Date
1	Replace the friction block		
2	Replace the release handle spring		
3	Repair the gearbox		
4	Replace guide bearings		
5	Replace the wheel		
6			
7			

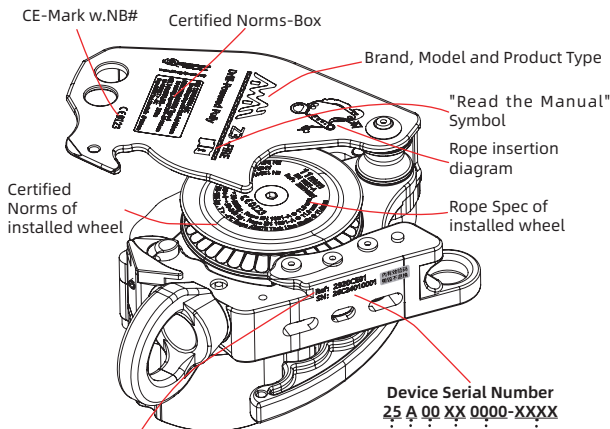
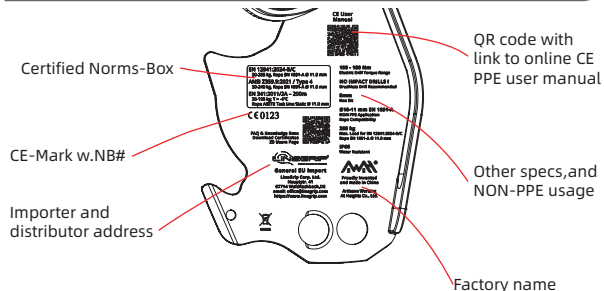
AWAH Z3 Inspection record

Device name:		
SN:		
Location		Inspector signature
No.	Detect items	Results
1	The handle rebounds normally to the locked position	
2	The wheel locks when the rope is pulled on one side and turns when pulled on the other side	
3	Rotate the wheel slowly, you can hear a deep and even "click" sound	
4	The movable side panel can open and snap into the fixing button normally	
5	The attachment holes are not deformed or cracked	
6	There is no oil leakage in the housing	
7	The body is free from corrosion, deformation, cracking, or wear	
8	Bolts, rivets, and other fasteners are not loose	
9	The remaining size of the friction block and wheel is within the safety range	
10	The texts, marks, etc. on the body are clearly legible	
Conclusion		☐ normal ☐ pending further inspection ☐ repair required ☐ scrapped

AWAH Z3 Usage record

Device name:					
SN:			Date of use: _____		
Usage Times	Lifting (kg/lbs)	height (m/ft)	Lowering (kg/lbs)	height (m/ft)	Remark
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
Subtotal	Average kg/lbs	Total m/ft	Average kg/lbs	Total m/ft	

Appendix 1 - AWAH Z3 Markings



Ref-No: Z320CExx (xx=01 to 99 depending on color and country)

Additionally this TF applies to the following units: Ref-No: Z320AA01 with specific serial numbers listed on the DoC.

Year of manufacture
Month of manufacture
Day of manufacture

Identifying code
Serial code
Batch code

Letter	A	B	C	D	E	F	G	H	J	K	L	M
Month	1	2	3	4	5	6	7	8	9	10	11	12

**US, CA, AU, & NZ
Import & Distribution:**

How NOT 2 LLC
1065 12th Ave NW
Suite E7
Issaquah, WA 98027
United States of America
<https://www.hownot2.com>

Manufacturer:

Artisans Working At Heights Co. Ltd.
Building 2, No. 6 Huanggongkeng Road,
Dongcheng Street, Dongguan City 523127,
Guangdong Province
China
<https://www.awah.cn>

Manuals & Certificates:

<https://www.hownot2.com/z3-fire>