

These operating instructions are for use on the c o n s t r u c t i o n s i t e !

Caution Please respect and refer to the operating instructions and safety regulations prior to operation!

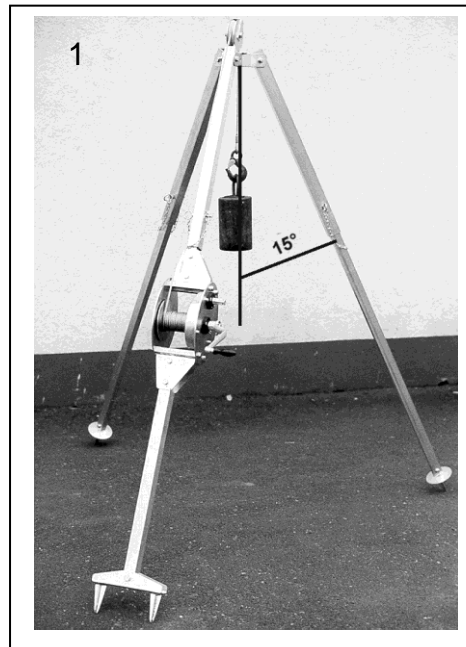


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1. Definitions

Danger indicates a dangerous situation. If it is not avoided, it will cause death or major injuries.

Caution indicates a dangerous situation. If it is not avoided, it can cause light or minor injuries or material damage. It also indicates incorrect use.

2. Safety Regulations

2.1. Utilisation As Directed

The ESTIL Aluminium Tripod with Winch is designed for vertical lifting operations of freely moveable loads. It is constructed according to current standards and regulations. No other type of use is allowed. The built-in winch is equipped with a self-actuating load-pressure brake.

For outdoor operation the aluminium tripod is equipped with spikes as standard.

For operation on solid ground exchange spikes against rubber plates. On smooth ground additionally attach safety chain.

Danger The following must be respected:

- **Do not transport people!**
- **No personnel are allowed to remain underneath the load or within the danger area!**
- **Never exceed** the admissible maximum load of the tripod.
- **Do not carry out** any alterations or modification.
- **Always** lift load vertically. It is unsafe to lift at an angle.
- **Do not allow** loads to break free, be pulled or dragged.

The following is not allowed:

- The built-in winch is not tested for building elevators (BGV D7).
- The winch is not approved for hoistable man riding assemblies (BGR 159).
- The built-in winch is not approved for stages and studios (BGV C1).
- The built-in winch is not approved for motorised operation.
- The built-in winch is not foreseen for continuous operation.
- **Do not lift** loads which have become stuck and which are likely to become trapped during the lifting process.

2.2 Safety Guidelines

The ESTIL Tripod With Winch is technologically advanced in its construction. Incorrect use may prove hazardous.

Caution The following must be respected:

- Each operator must read in full, understand and follow both the operating instructions and the safety regulations prior to every operation. These measures are necessary to guarantee human safety and safety within the working area.
- Store the operating instructions within easy reach of where the equipment is used.
- No personnel are allowed to remain under the load or within the danger area!

- Prior to initial operation the tripod must be professionally erected.
- Prior to every operation a functional inspection of the tripod, winch, wire rope, load hook and deflection pulley must be carried out.
- Should there be any defects, which may affect the safety of the tripod, winch, fixing, rope or load hook, the equipment must only be used after repair. No opportunity should arise whereby it is possible to use the equipment prior to repair.
- **Do not use** the winch if it gets sluggish, very hot or noisy.
- **Never unwind wire rope completely; make sure that always 2-3 layers are still left on the drum.**
- Wire rope and load hook must have a minimum safety factor of 5.
- **Do not use** a damaged or kinked wire rope.
- **Do not use** a damaged hook; the hook must be equipped with a safety lock.
- **Do not insert** any objects into the moving elements.
- **Avoid** sudden movements or quick release when lifting or lowering load.
- **Do not equip** the winch with mechanical drive.
- Only original spare parts may be used.
- **Do not remove** any information signs. Replace illegible or damages signs.

The manufacturer does not assume any liability if the equipment is not operated in accordance with these operating instructions. The contractor will lose all claims if he modifies, carries out extensions or does not use original spare parts.

2.3 Safety Measures

Caution The following must be respected:

- Only personnel who have been fully trained or instructed in its use can operate the equipment.
- At regular intervals, check that work is being carried out safely.
- Keep to the intervals specified for periodic tests and record them.
- Store the operating instructions within easy reach of where the equipment is used.

2.4 General Regulations

- Safety Regulations and the Regulations for the Prevention of Accidents (e.g. UVV-VBG 8).
- National regulations.
- Regulations listed in the EC Declaration of Conformity.

3. Specification

3.1 Construction

The ESTIL Aluminium Tripod With Winch is a manually operated lifting equipment with the following advantages:

- Light construction by aluminium legs
- Telescopic height adjustment
- All steel elements galvanized
- Solid, galvanized rope winch
- Self-actuating load pressure brake
- Direct drive for unloaded rope

3.2 Specification

Model	Carrying Capacity 1st Layer	Carrying Capacity 3rd Layer	Total Lifting Height	Rope Dia. dm	Length Of Leg	Clearance Height *	Spreading Width *	Weight
ADW-20	200 daN (kg)	200daN (kg)	5 m	6 mm	1,18 / 1,88 m	0,94 / 1,58 m	0,95 / 1,5 m	20 kg
ADW-50	500 daN (kg)	500 daN (kg)	5 m	6 mm	2.1 / 2.5 m	1.7 / 2.1 m	1.5 / 2.0 m	35 kg
ADW-50-3	500 daN (kg)	500 daN (kg)	5 m	6 mm	2.4 / 3.0 m	2.1 / 2.5 m	1.9 / 2.5 m	45 kg
ADW-100	1000 daN (kg)	1000 daN (kg)	7 m	6 mm	2.4 / 3.0 m	1.9 / 2.4 m	1.9 / 2.5 m	45 kg
ADW-100-4	1000 daN (kg)	1000 daN (kg)	7 m	6 mm	2.85 / 4.0 m	2.4 / 3.4 m	2.2 / 3.0 m	69 kg

* Maximum spreading angle

3.3 Accessories

The aluminium tripod is delivered with suitable wire ropes and accessoires. When wire ropes or rigging equipment supplied by other manufacturers are used, a minimum safety factor of 5 must be guaranteed.

4. Initial Operation

The aluminium tripod is tested by the manufacturer according to the machinery directives. It is delivered fully assembled, equipped with crank, rope and bottom hook block. Assembly and initial operation may only be carried out by qualified personnel.

4.1 Wire Rope

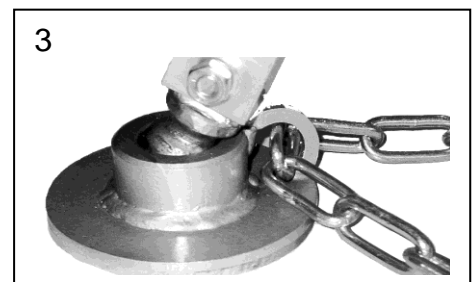
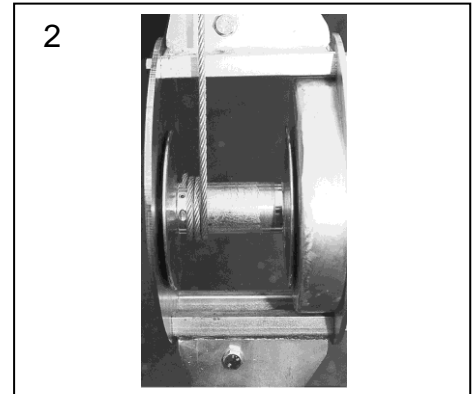
If the rope is provided by the contractor, it must be ensured that the rope meets DIN 3055/3060, the requested diameter of 6 mm and the minimum strength of 1770 N/mm² is respected. In order to fix the rope on the drum one rope end must be tapered and the load hook equipped with a safety lock. Only rope connections according to regulations may be used.

Caution

- Prior to initial operation retighten all screw connections!
- Examine rope and load hook for damage/deformation!
- Examine functional operation of the winch!

4.2 Fixing Of The Wire Rope

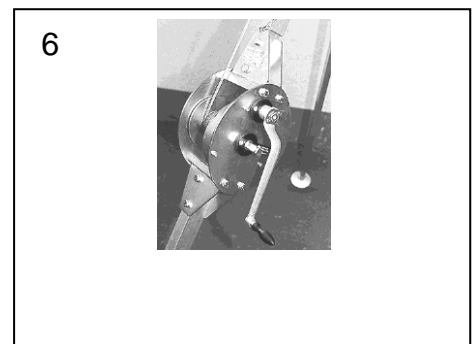
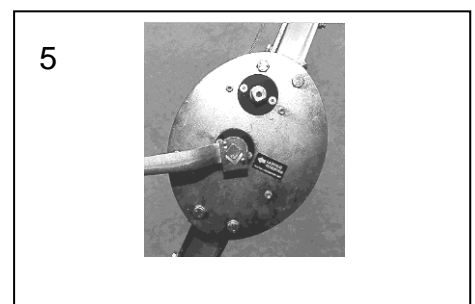
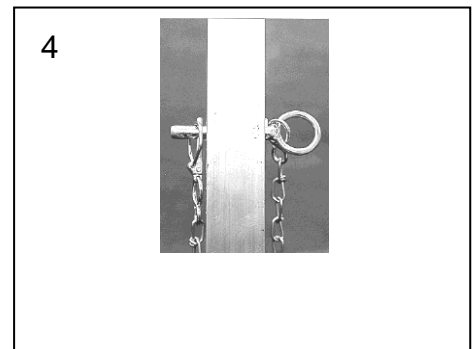
- Always use protective cloths to handle wire ropes: **risk of injury!**
- Slightly unscrew headless set screw in the drum and introduce tapered rope end in the hole (Fig. 2).
- Tighten rope end with headless set screw.
- Keep the unloaded wire rope slightly tensioned and wind up correctly. Ensure that rope is not kinked or crushed when winding up.
- The operator is only allowed to wind up a sufficient amount of rope onto the drum under loaded condition to ensure the projection of the flanged wheel having a minimum factor of 1.5 of the rope diameter. This will prevent the rope to laterally run off the drum.
- The operator must ensure that in a loaded condition at least two rope layers are still left on the drum.



5. Control

Caution

- The Aluminium Tripod is equipped with spikes for operation on soft ground as standard. For operation on solid ground (e.g concrete) exchange spikes against rubber plates. On smooth ground additionally attach safety chain (Fig. 3). If the tripod with spikes is used on solid ground, the legs must be secured against sliding away!
- Adjust three legs to the length requested and secure via bolts. (Fig. 4). Put aluminium tripod in an upright position and regularly pull apart legs as far as it will go. **Caution: Danger of overturning !**
- Make sure that there is always the same distance between the legs (equilateral triangle, Fig. 1). The tripod must stay firm and positioned upright.
- After the correct winding up of the rope and the professional fixing of the winch, examine unloaded and rope guide by winding up/unwinding via deflection pulley and bottom hook block.
- The direct drum drive (Fig. 5) may only be used for the fast winding up and unwinding of the unloaded rope. No lifting operations allowed (Fig. 5)!
- Now fit load in the load hook.





- The load handling (Fig. 6) may only be carried out, if the operator ensures that the load is safely fitted in and that no personnel remain within the hazardous area.
- The operator has to watch all movements of the load and the load handling equipment. If not, seek assistance.

Lifting: turning the crank clockwise, slowly and regularly.
Stopping: slowly release crank; the load is safely held in every position.
Lowering: turning the crank anticlockwise, slowly and regularly.

- The contractor and the operator must ensure that the admissible carrying capacity is not exceeded.
- The contractor must ensure that the aluminium tripod is safely installed in a vertical position. The ground must be able to carry all expected forces safely.
- The operator must ensure that the rope is not led over edges.
- **Do not remove** crank in a loaded condition.
- The crank may only be released, if no pressure is actuating on the crank (recoil of the crank).
- The operator is only allowed to wind up a sufficient amount of rope onto the drum under loaded condition to ensure the projection of the flanged wheel having a minimum factor of 1.5 of the rope diameter.
- The operator must ensure that in a loaded condition at least two rope layers remain on the drum (Fig. 2).

6. Maintenance

To guarantee perfect operation of the aluminium tripod, the operating instructions and the following maintenance works must be respected:

- Protect the aluminium tripod against water and humidity.
- **Do not lubricate** the brake mechanism of the winch **with oil or grease!**

Maintenance works by the contractor

<i>What?</i>	<i>How ?</i>
• Dirt	Cleaning
• Functioning of brake	Regular load tests, lubricate thread
• Wire rope	Visual inspection: crushing points, brakes of individual wires, according to DIN 15020
• Rope fixing	Retightening of screws
• Load hook, safety catch	Visual inspection: deformations, damages
• Screws, nuts	Retightening
• Housing	Inspection of deformation
• Winch fixing	Inspection of deformation, retightening of screws
• Surface protection	Repainting
• Brake linings	Regular inspection of wear and tear. Do not lubricate brake mechanism with oil or grease.

If the operator finds any defects with the aluminium tripod, winch, rope, deflection pulley, load hook and supporting structure he must ensure that the defects found are immediately repaired.

If the user is not authorised to do so or if the user is not an expert, he must stop the operation and must report the defect to the authorised person immediately.

7. Repairs

- Repairs must only be carried out by specialists or by the manufacturer.
- A special inspection must be carried out by an expert or by qualified personnel before the equipment can be operated again.

8. Inspections

Inspections carried out by the contractor / expert

<i>When ?</i>	<i>How ?</i>
• After delivery of the equipment	Complete inspection by the contractor
• Prior to initial operation	Inspection by expert
• Prior to each operation	Visual and functional inspection
• Depending on operation conditions, at least once a year	Inspection by expert
• After modifications, repairs	Inspection by expert

The authorised personnel must ensure that all inspections are recorded.

If the aluminium tripod becomes dangerous to use as a result of damage or age, the authorised personnel must ensure that the equipment is pulled out of operation and is disposed in accordance with guidelines.

It is recommended to direct all prescribed inspections to be carried out once a year to the manufacturer.

9. Legal Requirements

The BG Regulations BGV D8 "Winches, Lifting and Pulling Equipment", the operating instructions and the maintenance manual must be available and adhered to.

Extract from the Regulations for the Prevention of Accidents:

Inspections

The authorised personnel must ensure that the equipment and the supporting structure are examined by an expert prior to initial operation and after essential alterations prior to further operation.

The authorised personnel must ensure that the equipment and the supporting structure are examined by an expert at least once a year.

Recording

The authorised personnel must ensure that the results of the inspections are recorded.

10. Warranty And Liability

The warranty and the liability are no longer valid, if the equipment has not been assembled, installed, operated, checked and maintained according to these instructions.

Any doubts about instructions should be raised with the manufacturer prior to use.

Prior to every operation the user must ensure that

- the equipment is suited to the intended operation,
- the functioning and the working condition of the equipment is examined,
- the loads are suitable to be handled.

Failures are to be reported in writing to the supplier immediately, at the latest two weeks following delivery. It is unacceptable for the client to repair failures or have them repaired by a third party, and then request to be reimbursed for the costs.

According to the manufacturer's general contract conditions the equipment is under warranty for a period of six months from the invoice date. Wearing parts are not covered by the warranty.

The manufacturer is not responsible for any damage occurring in the event of an installation error or insufficient training by a third party, negligence, misuse or excessive stress of the equipment.

It is within the responsibility of the client to check prior to operation the functional condition of the equipment, the suitability of the load to be handled as well as any damage to the load before and after transport/installation.

The manufacturer does not take responsibility for any additional claims, for instance, the right to compensation for damage not caused to the equipment itself.

ESTIL NEDERLAND

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EC Declaration Of Conformity As Defined By Machinery Directive 2006/42/EC

We hereby declare that the design and the construction of the equipment mentioned hereafter complies with the following Directive.

This declaration will become invalid, if a modification of the equipment is carried out which has not been agreed with us as manufacturer.

The validity will also expire, if the equipment is not used as directed in accordance with manufacturer's relevant operating instructions and/or all regular inspections are not carried out according to BGV D8.

Description:	ESTIL Aluminium Tripod with Winch ADW
Directives:	EC Machinery Directive 2006/42/EC
Harmonised Standards:	EN 12100 EN 13 155
National standards:	BG Regulation BGV D8 „Winches, lifting and pulling equipment“ BG Regulation BGR 500 Chapter 2.8

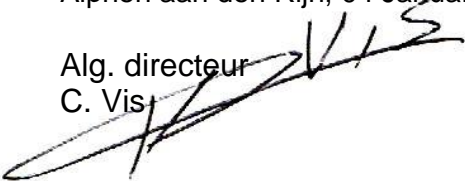
As stipulated in Annex VII of the EC Machinery Directive the following documents are available for inspection:

- * Operating instruction
- * Production drawings
- * Production plans
- * Static verification
- * Certification of welding

The CE symbol is marked on the equipment.

Alphen aan den Rijn, 04 Januari 2024

Alg. directeur
C. Vis



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Inspection Sheet

Model	ADW
Serial number	nb
Year of construction	2024
Contractor	Estil Nederland
Date of first operation	01-2024

The inspection of the load suspension device is carried out by an expert according to BG Regulation BGV D8 „Regulation for the Prevention of Accidents “Winches, lifting and pulling equipment”.

Inspection and Maintenance according to BGV D8

Inspection prior to initial operation according to § 23 and § 27a:	
	Date Signature of expert
Special inspection according to § 23 and § 27a:	
	Date Signature of expert
Regular inspection according to § 23 and § 27a:	Result:
	Date Signature of expert
Regular inspection according to § 23 and § 27a:	Result:
	Date Signature of expert
Regular inspection according to § 23 and § 27a:	Result:
	Date Signature of expert