



Hand Winch with Automatic Brake

SHARK 540 kg

800-102601

Operation manual



Read and understand this manual before use. Manual contains important safety, installation, operation and maintenance information. Ensure the Operation Manual is available for all responsible persons. **Keep the manual for future reference!**

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GENERAL SAFETY PRECAUTIONS

Danger exists when loads are lifted, particularly when a winch is not being used properly or is poorly maintained. Because an accident or serious injury could result, apply special precautions to the winch during operation, assembly, maintenance and inspection.

WARNING

NEVER use this winch for lifting or moving persons.

NEVER lift or transport loads over or near people. Keep others away.

NEVER exceed lifting capacity stated on the winch.

ALWAYS make sure that winch anchoring structure provides adequate support and withstands full load and all lifting operations.

ALWAYS let people around know when lifting is about to begin.

ALWAYS read the operation manual and safety instructions.

Remember: proper rigging and lifting techniques are responsibility of the operator. Check all applicable national directions, regulations and standards for further information about safe use of your winch.

WARNING

Before use

ALWAYS ensure that operator is physically strong enough, qualified and instructed, older than 18 years, familiar with this manual and trained in safety precautions and way how to work and operate with the winch.

ALWAYS inspect winch and wire rope condition prior to operating the winch.

ALWAYS ensure wire rope is not corroded, frayed, is clean and undamaged.

NEVER use damaged or worn winch.

NEVER lengthen the wire rope with the help of clamps or by any other way.

WARNING

During operation

ALWAYS remove wire rope kinks and slings before start lifting or pulling.

ALWAYS wear heavy leather gloves when handling the wire rope.

ALWAYS make sure load is properly fixed in the hook's safety latch.

ALWAYS make sure the hook safety latch works properly.

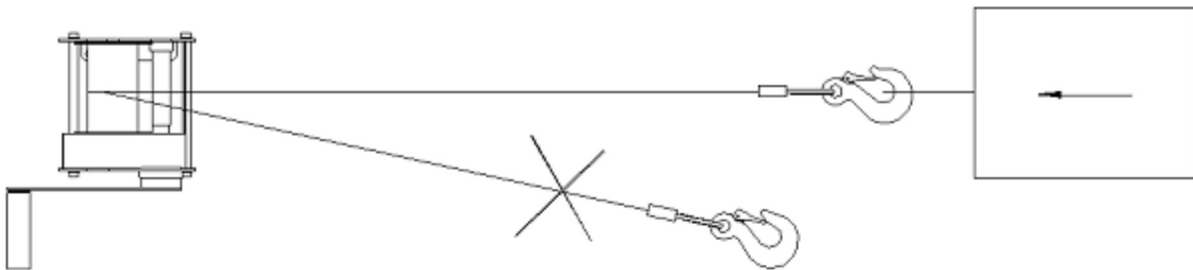
NEVER work with winch when wire rope is jammed, kinked or slipping.

MOUNTING THE WINCH

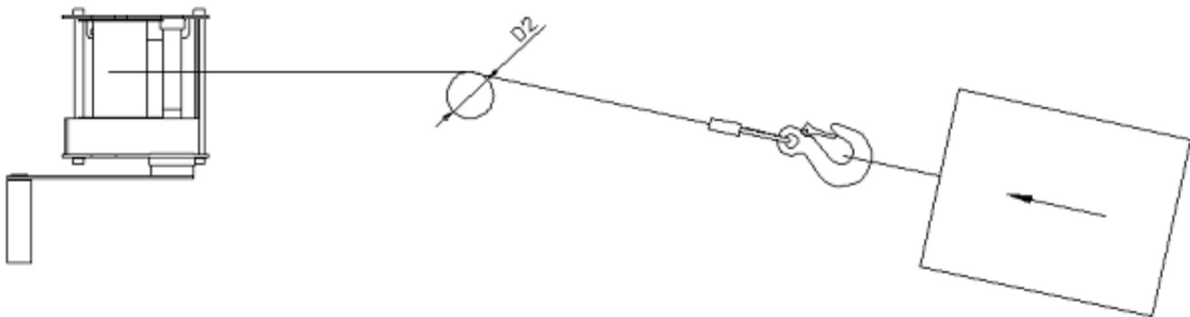
Be careful when mounting the winch to the anchoring structure and ensure appropriate conditions for safety mounting according to the character of the environment (working platform, auxiliary lifting device, etc.), to avoid endanger or injury of the people. Use safety equipment when suspending winch in heights to avoid fall from height. Use only undamaged bolts, washers and nuts when mounting the winch. Secure the winch with all screws. Remember mounting bolts may vibrate loose. Winch must be mounted in such a way that the towed load moves in the axis of the winch.

WINCH POSITION WHEN PULLING AND LIFTING LOADS

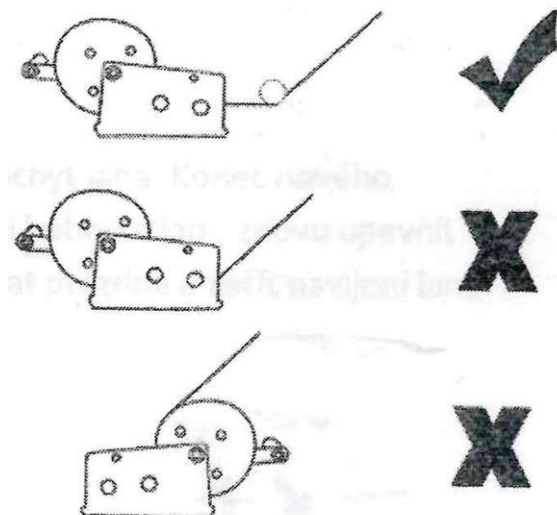
(1) Rope must run straight into the winch, in line with its axle.



(2) If the winch and load are at an angle when lifting or pulling, a pulley must be used as a wire rope guide.



(3) Correct wire rope positioning when winching:



WINCH OPERATION

This winch is a mechanical device designed for lifting, lowering and pulling loads. It is operated by manual turning the hand crank. Work with heavy loads may involve unexpected dangers; therefore it is necessary to follow all safety instructions. Wire rope must be threaded through the pulleys, cannot be guided outside the pulleys.

LIFTING AND LOWERING

Lifting and lowering is performed by turning the hand crank in required direction. Lifting and lowering can be interrupted anytime during operation.

WARNING

Never hook up a load to the winch without previous active lifting the load by a jack. The load can fall down because of not working brake. The winch brake is reliably activated at minimum tension of 2% - 5% of the safe working load.

WARNING

When lifting load that will be hooked over to other hosting device (crane, lift truck etc.), it is necessary to release wire rope by hand crank, not by lifting of the load with other hoisting device. Only the correct procedure guarantees trouble-free releasing of the winch brake after unloading.

MAINTENANCE

WARNING

Except for a wire rope replacement, only qualified repair person (professional service) trained in safety and maintenance can carry out maintenance, service and tests of the winch.

ALWAYS use only replacement parts and components supplied by the manufacturer. It is not permitted to carry out repairs and maintenance in a way not specified by the manufacturer. This applies namely to prohibition of using unoriginal spare parts or modifications of the product without manufacturer's approval.

ALWAYS test winch function after performing maintenance by partial winding-off and on of the rope.

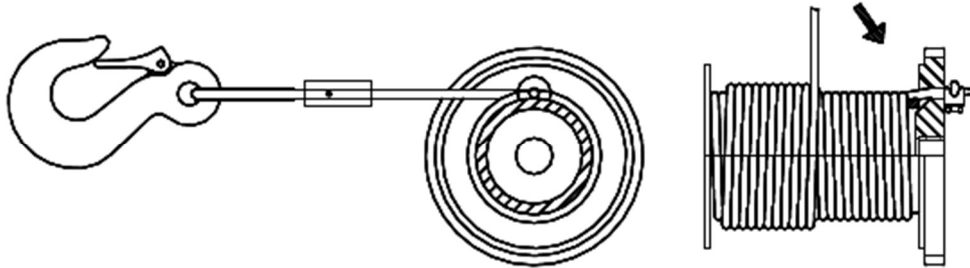
ALWAYS mark broken winch or winch in repair with the appropriate notice, such as „**OUT OF OPERATION**“ for example.

NEVER perform any maintenance with a load attached to the winch!

NEVER work with the winch being serviced!

WIRE ROPE REPLACEMENT

Reel out the old rope from the drum, loosen the rope clamp and remove the old rope. Run end of a new rope through the hole in the drum face and attach rope clamp to the new rope. Leave first thread groove free and start to wind up the rope from the second thread groove. By turning the handle then wind up the wire rope onto the drum so that the rope is reeled from above the drum.



! WARNING

ALWAYS wind new wire rope only in above described way. Every other way of rope winding can cause malfunction of the brake or ratchet pawl (!), eventually higher stress to the winch mounting fixtures and anchoring structure.

ALWAYS reel a new rope with a preload, tightly pack each coil. Slacked and criss-crossed rope can cause considerably lower rope life.

GENERAL MAINTENANCE INSTRUCTIONS

Following instructions give you general important information on winch disassembly, service, check, repair and assembly. Whether the winch was dismantled from any reason, follow the instructions below:

1. **ALWAYS** perform winch service in a clean area.
2. **ALWAYS** maintain your workplace clean and free of foreign particles that could get into the bearings and other movable parts.
3. **ALWAYS** use suitable inserts to protect the parts surface, if you are going to squeeze parts in a vice.
4. **NEVER** disassemble the winch more than is necessary to provide required repair.
5. **NEVER** use excessive force when dismantling parts.
6. **NEVER** use heat or fire when dismantling parts, if those parts will be used again.

PERIODICAL CHECKS

ALWAYS check up all disassembled parts if they are suitable for re-use.

1. Check up all toothed gears including the shafts for wear, grooves and cracks.
2. Check if threaded parts have no damaged threads.
3. Regularly check the wear of the automatic brake linings.
4. Clean brake linings, ratchet, ratchet pawl and thrust washer with a wire brush and check condition.
5. Brake linings that reached their minimum thickness needs to be replaced. Regardless of thickness, replace also brake linings that have considerably worn surface.
6. Check up especially the wire rope – part that causes problems most often.

SHARK WINCH 800-102601 SPECIFICATIONS

Lifting capacity	Wire rope length	Wire rope diameter
540 kg	10 m	4 mm

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ASP Group s.r.o. reserves the right to make changes to technical parameters, construction or design without prior notice. In case of any queries contact your dealer or ASP Group s.r.o.