HUSAR WINCH

BETTER STRONGER TOUGHER

Manual & Safety Instruction

Dear Customers,

Thank you for choosing a HUSAR brand winch. We hope that this winch, manufactured with the highest quality standards and using the latest technology, will serve you well. Please read the entire user manual carefully before starting to use it and keep it for future reference. If you pass on or sell the winch to someone else, please also give them this manual. Follow all warnings and information contained in it

***PLEASE READ CAREFULLY BEFORE OPERATING THE WINCH**

Content

1. Electric Winch Usage

Electric winches are extensively used for trucks, 4x4 cars, farm cars, UTV, ATV, go-cart and other vehicles. It can work in extreme environment for vehicle recovery, like in the sands, swamp, snow, muddy road and so on. So it is named “the fifth wheel”. For example, the car was stuck in mire, but it can't go out by itself. Like this case, we can pull the car out by electric winch. In other situations, we also can use electric winch to pass the barrier, pull the goods etc. Electric winch is a self-protection and recovery necessary device for firefighting, military, police, immigration, hydrology and other off-road activities.

2. Safety Warnings & Precautions

2.1 Danger

1. Vehicle batteries contain gasses that are inflammable and can explode violently.

Dress properly

- Do not wear loose clothing or jewelry. They can be caught in moving parts.
- Non-skid footwear is recommended.
- Protective hair covering to contain long hair.

Battery

- Be sure that battery is in good condition. Avoid contact with battery acid or other contaminants.
- Always wear eye protection when working around a battery.
- Always follow wiring diagrams
- Have the engine running when using the winch, to avoid flattening the battery.

2. Improper wiring can result in electrical shock or explosion.

•Always insulate and protect all exposed wiring and electrical terminals.

•Always place supplied terminal boots on wires and terminals as directed by installation instructions.

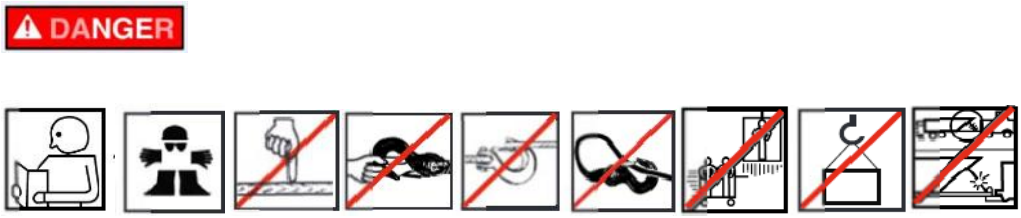
•Never connect DC Powered winches to AC current.

•Never operate a DC winch in an explosive environment.

•Never route electrical cables across sharp edges; near parts that get hot, nor through or around moving parts.

•Always verify area is clear of fuel lines, fuel tank, brake lines, electrical wires, etc., when drilling.

•Always consult operator's manual for proper wiring details.



3. Improper use or overloading of the winch can result in a release of load or rope failure.

Before winching a load, be sure the clutch is fully in the engaged position.

• **Always** properly seat load in throat of hook.

• **Always** use a shackle or strap when attaching the hook to an anchor point.

• **Always** use a hook with a latch and insure hook latch is closed and not supporting load.

• **Always** keep hands clear of rope, hook loop, hook and fairlead opening during installation, operation and when spooling in or out.

• **Always** use supplied hook strap whenever spooling rope in or out during installation and operation.

• **Never** touch rope or hook while in tension or under load.

• **Never** hook the rope back onto itself.

• **Never** use winch to lift or move persons.

• **Never** use winch as a hoist or to suspend a load.

⚠WARNING

2.2 Moving Parts Entanglement Hazard

• Keep the duration of your pulls as short as possible.

• Do not step over a cable, or near a cable under load.

• **Never** engage or disengage clutch if winch is under load, rope is in tension or drum is moving.

• **Always** keep hands clear of rope, hook loop, hook and fairlead opening during installation, operation and when spooling in or out.

• **Always** keep wired remote control lead clear of the drum, rope and rigging. Inspect for cracks, pinches, frayed wires or loose connections. Replace remote control if damaged. **Use only manufacturer's identical replacements with the exact specifications.**

• **Always** pass wired remote control through a window to avoid pinching lead in door, when using remote inside a vehicle.

• **Never** leave remote control where it can be activated during free spooling, rigging, or when the winch is not being used.

• If the motor becomes uncomfortably hot to the touch, stop and let it cool for a few minutes. Do not pull more than one minute at or near the rated load. Do not maintain power to the winch if the motor stalls.

• Check motor often, never winching out of max pull and specific time, it will make the motor so hot and damaged.

2.3 General Safety

• **Always** know your winch. Take time to fully read the Installation Guide and the Basic Guide to Winching Techniques in order to understand your winch and its operation.

•Electric winches are for intermittent usage and should not be used in constant duty applications.

•Modification, alteration, or deviation to the winch should only be made by qualified Winch Company. (Altering or modifying the winch (i.e. machining or welding) in any way, will void the warranty.)

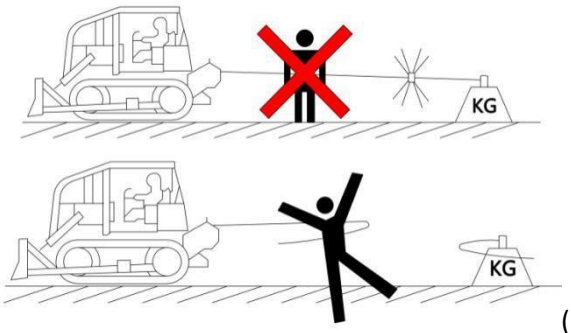
•**Never** operate this winch if you are under 16 years of age.

• **Never** operate this winch when under the influence of drugs, alcohol or medication.
• **Never** exceed winch or rope capacity listed on product data sheet. Double line using a snatch block to reduce winch load.
• Always be aware of stability of vehicle and load during winching, keep others away. Alert all bystanders of an unstable condition.
• Keep **a safe distance,** proper footing and balance all the time.

⚠WARNING

2.4 Installation Safety

• **Always** inspect rope, hook, and slings before operating winch. Frayed, kinked or damaged rope must be replaced immediately. Damaged components must be replaced before operation. If a cable pulls loose or breaks under load it can lash back and cause series personal injury or death.



(Figure 2-4)

• **Always** pre-stretch wire rope and re-spool under load before use. Tightly wound wire rope reduces chances of "binding", which can damage the rope.
• **Always** spool the rope onto the drum in the direction specified by the winch warning label on the winch and/or documentation. This is required for the automatic brake (if so equipped) to function properly.
• **Always** choose a mounting location that is sufficiently strong to withstand the maximum pulling capacity of your winch.
• **Always** use factory approved mounting hardware, components, and accessories.

• **Always** use grade 5 (grade 8.8 metric) or better mounting hardware.

• **Never** weld mounting bolts.

• **Always** use carefully when using longer bolts than those supplied from factory. Bolts that are too long can damage

the base and/or prevent the winch from being mounted securely.

- **Always** mount the winch and attach the hook to the rope's end loop before connecting the electrical wiring.
- **Always** position fairlead with WARNING label on top.
- **Never** obscure warning and instruction labels. Slowly take up the wire rope slack until taut.
- **Never** leave remote control plugged into winch when free spooling, rigging, or when the winch is not being used.
- **Never** hook rope back onto itself. In this case it causes rope to be damaged.
- **Always** use a choker chain, choker rope, or tree trunk protector on the anchor.
- **Always** be certain that the anchor you select will withstand the load and the strap or chain will not slip.
- **Always** select an anchor point as far away as possible. This will provide the winch with its greatest pulling power.
- **Never** operate a winch with less than 5 turns of wire rope around the drum and operate a winch with less than 8 turns of synthetic rope around the winch drum. The rope could come loose from the drum.
- **Never** expose the rope to heat sources or chemicals.
- **Never** pull the rope around non-rotating sheaves or rollers.
- **Never** allow rope to tangle or jam while winching. Rope could break before winch stalls.
- **Never** knot or tie the rope to secure a load or repair a broken rope.
- **Never** use a hook whose throat opening has increased, or whose tip is bent or twisted.
- **Never** use to raise, suspend, lower or secure horizontally hinged doors or ramps without additional counter balance springs centrifugal locking devices, or other secondary means of supporting the moving ramp or door.
- **Always** store the remote control in a protected, clean, dry area.
- **Always** double line or pick distant anchor point when rigging. This maximizes pulling power and avoids overloading the winch.
- Take recovery blanket on wire rope if possible before operating winch, it will make vehicle and operator safe once wire rope damaged.

⚠CAUTION

2.5 Avoid Winch and Equipment Damage

• **Always** avoid side pulls which can pile up rope at one end of the drum. This can damage rope or winch.
• Do **not** operate the winch at extreme angles. Do not exceed the specified angles for a roller fairlead. For a hawse fairlead, the angle should be as close to straight as possible.
• **Never** use winch to tow other vehicles or objects. Shock loads can momentarily exceed capacity of rope and winch.
• **Always** avoid "powering out" for extended distances. This causes excess heat and wear on the winch motor and brake.
• **Always** use care to not damage the vehicle frame when anchoring to a vehicle during a winching operation.
• **Never** "jog" rope under load. Shock loads can momentarily exceed capacity of rope and winch.
• **Never** use winch to secure a load during transport.
• **Never** submerge winch in water.
• **Always** store the remote control in a protected, clean, dry area.

NOTICE

2.6 GENERAL TIPS FOR SAFE OPERATION

1. To prevent battery drain and maximize power and speed of the winch, the vehicle engine should be kept running during operation. If the winch is used for a considerable time with the engine off, the battery may drain and be too weak to restart the engine.
2. Inspect the winch installation, check bolts to ensure that all bolts are tightened before each operation.
3. Any winch that appears to be damaged in any way, is found to be worn, or operates abnormally SHALL BE REMOVED FROM SERVICE UNTIL REPAIRED. It is recommended that the necessary repairs be made by a manufacturer's authorized repair facility.
4. The wire rope may break before the motor stalls, for heavy loads at or near rated capacity, use a pulley block/snake block to reduce the load on the wire rope.
5. Do not move the vehicle to pull a load (Towing) on the winch cable, this could result cable breakage.

3. Electric Winch Installation

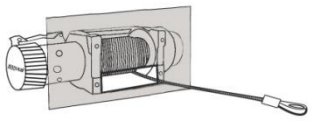
3.1 Unpack Your Winch

Unpack your new winch and ensure that all the parts are included by referring to parts list and exploded view drawings provided in this manual. If you find any parts missing or broken, please contact store where you purchase from as soon as possible.

3.2 Mount Your Winch

Choose a suitable location to mount the winch that is strong enough to withstand the loads(A mounting plate is recommended for winch installation). Check your mounting plate or bumper has the suitable screw holes, if not drill four mounting holes according to the bolt pattern mentioned in the winch specifications

1.



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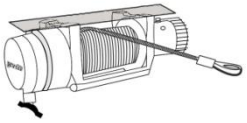

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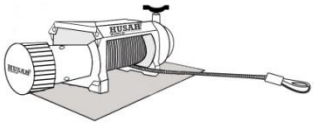


Mounting the winch:

- The winch must have a specially adapted place
- The pulling force of the winch should be properly matched to the vehicle
- The winch should be mounted horizontally on a dedicated mounting plate intended for the winch
- Please note that the length of the mounting screws will vary depending on the thickness of the mounting plate
- Never weld mounting screws
- Never use screws that are too long, always check the required screw length to ensure proper connection
- Never attach a rope guide to a winch
- Depending on the winch installation, the winch control may be mounted in a different place

3.3 Fix Your Winch

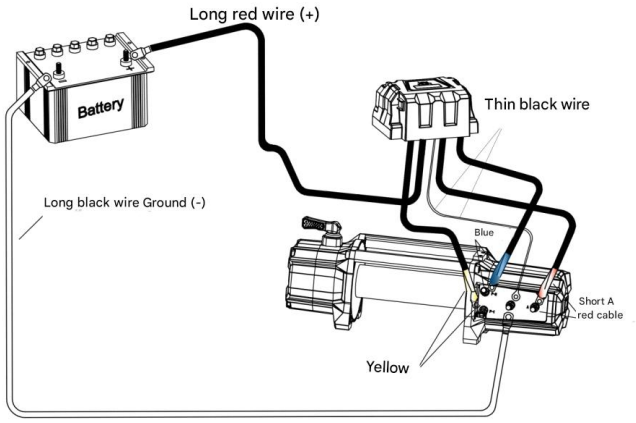
Install your winch on the mounting plate or bumper, refer to the screws and make sure to screw them tight. Be sure the motor, drum and gear box on the one surface after installation.

3.4 Install Your Winch Fairlead

Fix the fairlead on the mounting plate or bumper, all the winch fairleads come predrilled. If you use any other mounting platforms, drill two holes for the fairlead installation. Position the holes such that the fairlead opening hole stretches from the circumference of the drum to the end of the maximum permissible layers on the drum in the direction cable is being.

Note the winch direction after installation, the rope runs through the bottom of the drum.

3.5 Install Control Box



(Figure 3-5)

- Short red cable connects to the red terminal (A) of the motor.
- Short black cable with yellow jacket connects to the yellow terminal of the motor.
- Short black cable with blue jacket connects to the blue terminal of the motor.
- Thin black cable connects to bottom terminal of the motor.
- Long black cable connects to bottom terminal of the motor.

3.6 Connect Electric Cables

- **Long Red** cable connects to the **Positive (+)** of battery.
- **Long Black** cable connects to the **Negative (-)** of battery.

Connecting ATV series winch to the external relay unit:

- Wired and wireless remote control（optional）are connected to the relay unit.
- The unit included 2 pcs short electric wires(1 red and 1 black) and 2 pcs long electric wires. 2 pcs short electric wires are connect the relay to motor. 2 pcs long electric wires are connect the relay to the battery power.

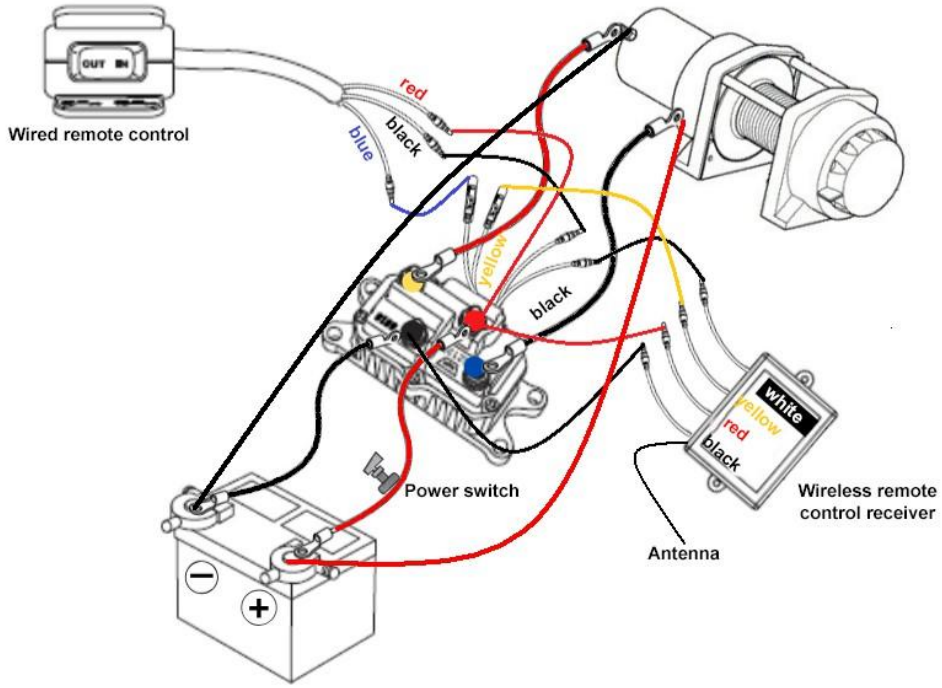
Connecting ATV series winch to control box(optional):

- There are 2 short electric wires (1 red and 1 black) and 2 pcs long electric wires On the control box.

- Connect the red short wires to the **Positive (+)**of motor.
- Connect the black short wires to the **Negative (-)**of motor.
- **Long Red** cable connects to the **Positive (+)** of battery.
- **Long Black** cable connects to the **Negative (-)** of battery.

HUSAR WINCH BETTER STRONGER TOUGHER

WIRED AND WIRELESS REMOTE CONTROL CONNECTION DIAGRAM FOR BST S 3000- BST S 5500LBS WINCHES



3.7 Test Your Winch

After proper installation and connection, place the clutch in the “Disengaged” position, pull out the winch rope for about 2 meters, then turn the clutch to the “Engaged” position, and handle the remote control to see if the winch works. If the winch doesn’t work, please check if all the things are in proper condition, such as, if the cable connection is correct and tight or the vehicle battery is sufficient. If the winch still does not work after thorough check, please contact the supplier.

3.8 Practice Using

After winch has been installed, take some time and practice using it so you will be familiar with all operation. Periodically check winch installation to ensure that all bolts are tight.

4. Electric Winch Operation

NOTE: For optimal winch performance, **Winch** recommends that use a fully charged 12V battery with at least 650 CCA. Further it is advised to keep the engine running during the winch operation, so that the battery is being charged continuously.
All winches are equipped with a clutch lever that engages/disengages the clutch. Clutch when engaged, winch can pull rope in; Clutch when disengaged, winch can pull rope out.

CAUTION: When using your **Winch**, always has at least 5 turns of wire rope or at least 8 turns of synthetic rope on the drum before winching; Ensure the clutch is fully engaged or fully disengaged to avoid any injuries and damages.

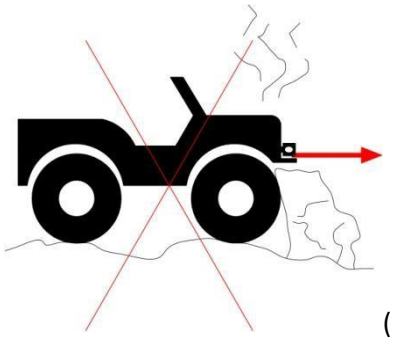
CAUTION: **All Winches are for intermittent use only**. Wait until the motor cool down before resuming operation.
Potential causes of motor damage:

1. Long–duration pulls.

2. Low battery.

3. Overloading winch pulling capacity.

4. If there is a large rock right in front of your axle, frame, or skid plate, you can winch horizontally and the only thing you'll accomplish is bending something, or burning out your winch motor.



(Figure 4)

4.1 Step1: Disengage Clutch

Disengage your winch by rotating the clutch to **FREE-SPOOL** position or lift your clutch and turn to **FREE-SPOOL** position.

4.2 Step 2: Pull Rope to Anchor Point

Pull out enough rope to reach your anchor point. Be sure to keep ascertain amount of tension in the wire. It can become twisted and over wrap when slackened, leading to rope damage. To prevent loosing the end, hold the winch hook in the hook strap while you work.

4.3 Step 3: Engage Clutch

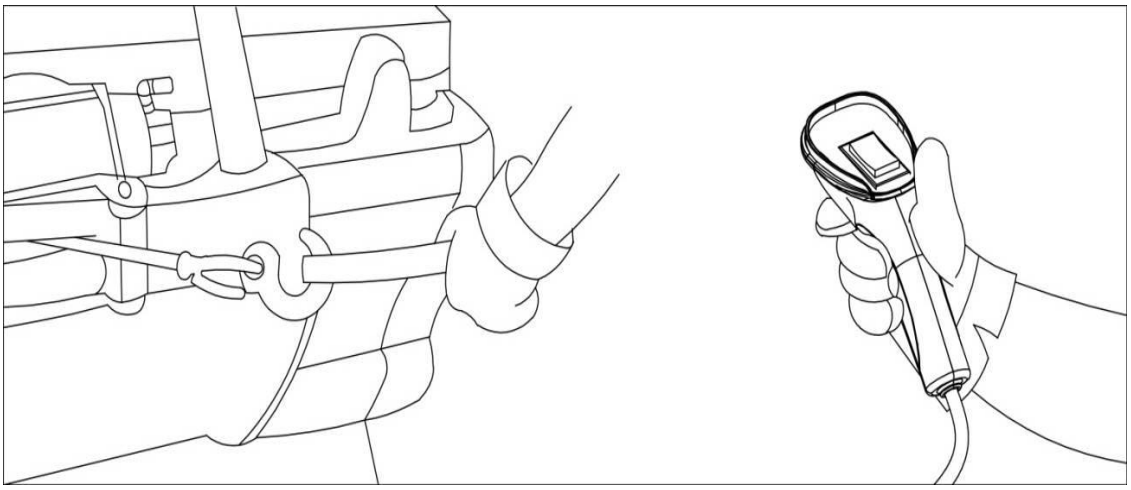
Engage your winch by sliding the clutch to **ENGAGED** position or lift your clutch and turn to **ENGAGED** position.

NOTICE

If necessary, pull the rope out slightly until the clutch is seated correctly.

4.4 Step 4: Winching

Connect handle remote control to control box, keep distance from winch and rope for safety, press button on handle remote control to IN for winching, if you use wireless remote, please press IN button to winching.(Figure 4-4)



NOTICE

Always disconnect the remote control when not in use.

4.5 Step 5: For Vehicle Recovery

Continue pulling until the vehicle is on stable ground. If you are able to drive the vehicle, the winching operation is complete. Once recovery of the vehicle is complete, besure to secure the vehicle's brakes and put the Transmission in "park". Release tension in the rope.

Disconnect rope from the anchor, and then rewind rope. The person handling the rope should walk the rope inland not let it slide through the hand and control the winch at all times.

4.6 Step6: Disconnect Remote Control

Disconnect the remote control cord and store in a clean anddry place. Winching operations are now complete. Put the cap on the socket.

⚠WARNING

• **Always** be aware of stability of vehicle and load during winching, keep others away. Alert all bystanders of an unstable condition.
• **Always** keep **a safe distance,** proper footing and balance all the time.

• **Always** disconnect the cable to the vehicle battery after winching.

NOTICE

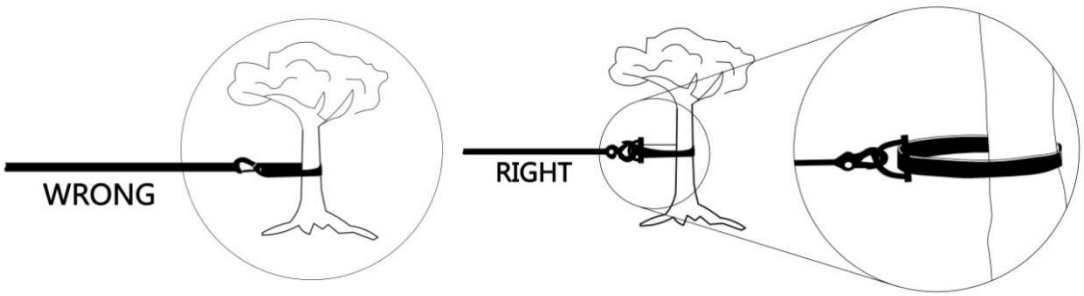
All above connections is only for winch and winch parts. Any damage or injure caused by any other winch part is out of warranty and duty.
Attention:

1. Be sure cables are not drawn taught across any surface, which could possibly damage them.

2. Connect battery and screw the nut on the all terminals to avoid any connection loose.

3. Operate the wire remote controller after installation to make winch work in both directions.

4. Never hook the rope back onto itself. This could damage the rope. A tree saver is recommended.

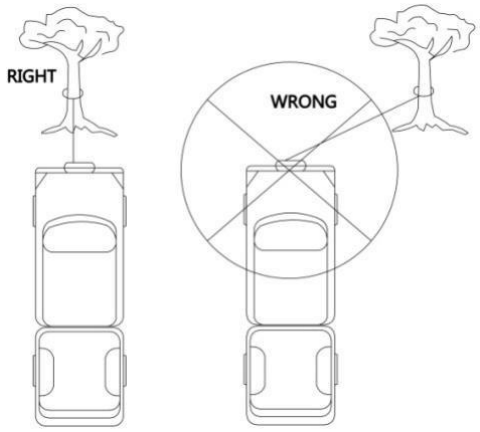


(Figure 4-6)

5. Never allow rope to tangle or jam while winching. Rope could break before winch stalls.

6. Never exceed winch or rope capacity listed on product data sheet. Double line using a snatch block to reduce winch load.
7. Do not reverse the operation immediately. Relay can be easily damaged in this way.

8. Avoid continuous pulls from extreme angles. This can cause the wire rope to bunch at one end of the drum resulting in damage to the wire rope or winch. Do not exceed the specified angles for a roller fairlead. For a hawse fairlead, the angle should be as close to straight as possible.



(Figure 4-7)

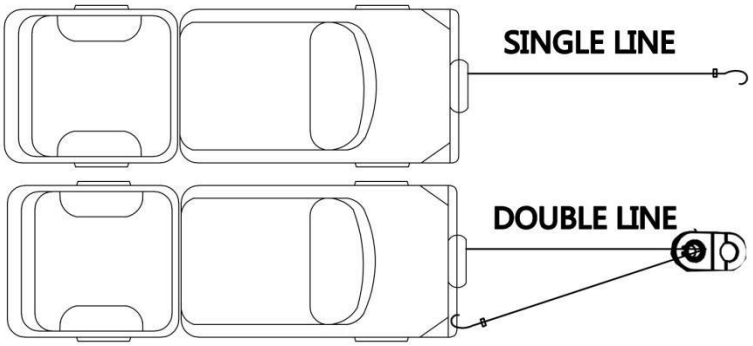
4.7 Winch Accessories You May Need During Winching
In order to be prepared for all recovery scenarios it is recommended to be equipped with a full recovery kit. These kits can include but are not limited to:
1. Winch Mounting Plate 2. Farm Jack 3. Receiver 4. Shackle 5. Square Hook

6. Heavy duty chain 7. Tree Saver 8. Recovery Blanket 9. Snatch Block10. Gloves

4.8 **Some Tips for Better Winching**
1. The use of a snatch block

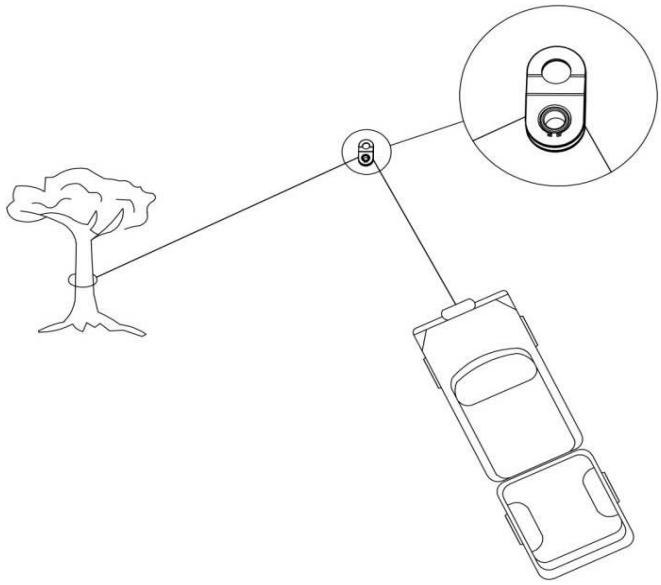
(1) Double Line

The use of a snatch block will aid recovery operations by providing a doubling of the winch capacity and a halving of the winching speed, and the means to maintain a direct line pull to the center of the rollers. When double loading during stationary winching, the winch hook should be attached to the chassis of the vehicle.



(Figure 4-8)

(2) Change the Pulling Direction



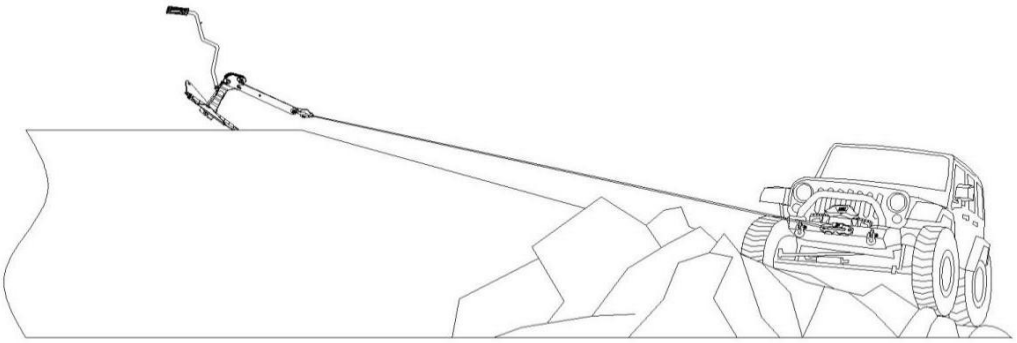
(Figure 4-9)

(3) Increasing pulling power &duration

For loads over 1/2 rated capacity, use a pulley block to double line the rope. This will reduce the load on the winch and up to 50% of the strain on the rope. Attach to the frame or other load bearing part.

2. Ground Anchor

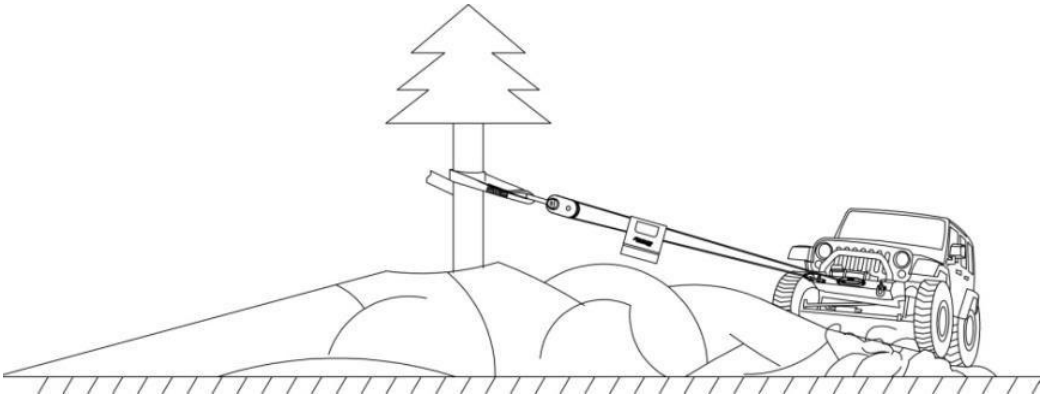
Pull out winch rope and fix to the anchor point, the anchor point should be a ground anchor, a tree strong enough, a vehicle being recovered (Figure 2-4).



(Figure 4-10)

3. Recovery blanket or other heavy duty material

   The quickest and easiest way to pull the rope out from the drum is to freespool it with the clutch in the disengaged position. When pulling, put a damper, blanket or other heavy duty material over the rope near the hook end, if the rope fail for any reason, there will be barrier to help the rope from whipping and causing injury. (Figure 3-4)



(Figure 4-11)

5. Electric Winch Maintenance& Storage

5.1 General Inspection

1) The gear box has been lubricated and is sealed at the factory. No further internal lubrication is required for the life of the winch. The winch should not immersion in water (waterproof winch should not be soaked in water for a long time). If the winch immersions in water by accident, you should loose the earth screw, put the net water as soon as possible. And you should use the winch within 3 days, make the motor to work and not stop until hands can feel it hot, as it can rid of water vapor into the motor.
2) Do not attempt to disassemble the gear box. Repairs should be done by an authorized repair center.

3) Lubricate the cable periodically using light penetrating oil. Please replace a new cable as soon as possible if it occurs glitch, fractures, and creases.
4) Periodically check the tightness of the mounting bolts and electrical connections. Remove all dirt or corrosion and always keep clean. (Check battery cables and electrical connections at 90 day intervals to be certain they are clean and tight at all connection points.)
5) You should clean and lubricate after using; also should store the winch in the dry and cool place, disengage the clutch, and avoid children to contact and play.
6) If ach assembly or connection screw is loose or corrode, please repair and replace it timely.

7) Check monthly the action of the clutch, making sure it is fully engaging and disengaging. If clutch is not fully engaging, inspect clutch shifter assembly parts, check for damage or excessive wear and replace as necessary. Corrosion on electrical connections will reduce performance or may cause a short. Clean all connections especially in the remote control switch and receptacle. In salty environments use a silicone sealer to protect from corrosion.

To minimize corrosion of the internal motor components that may occur due to condensation, power the winch in or out periodically. Energizing the motor will generate heat, which will help dissipate any moisture buildup in the motor. This should be performed at periodic intervals (such as with each oil change to your vehicle). Note: Refer to the Troubleshooting Guide if the motor has been submerged.

6. Troubleshooting Guide

Trouble Shooting

SYMPTOM	POSSIBLE CAUSE	SUGGESTED REMEDY
Motor does not turn on	Defective switch Assy	Replace switch Assy
	Switch assemble not connected properly	Insert switch Assy firmly to the connector
	Loss battery cable	Tighten nuts on cable connectors
	Solenoid malfunctioning	Tap solenoid to free contact, applying 12 volts to coil terminal directly. Make an audible clicking when activating
	Defective motor	Check for voltage at armature port with switch pressed. If voltage is present, replace motor.
Motor runs too hot	Long period of operation	Let winch cool down periodically
	Insufficient battery	Check battery terminal voltage under load. If 10 volts or less, replace or parallel another battery to it.
Motor runs slowly or without normal power	Battery runs down	Recharge battery by running vehicle's engine
	Insufficient current or voltage	Clean, tighten or replace the connector
	Bad connection	Check battery cable for corrosion. Clean and grease.
Motor runs but cable drum does not turn	Clutch not engaged	Ensure lever is completely in "Engaged" position
Winch runs in one direction only	Defective or stuck solenoid	Tap solenoid to free contacts. Repair or replace solenoid.
	Defective switch Assy	Replace switch Assy
Motor water damage	Disconnect from battery	Remove ground bolt on bottom of motor and drain.

	Submerged in water or water from high pressure car wash	Allow to drain and dry thoroughly, then run motor without a load in short bursts to dry windings.
Will not hold load	Excessive load	Reduce load or double line
	Worn or damaged brake	Repair or replace brake

IMPORTANT!

SAFETY PRECAUTIONS AND PROCEDURESPRESENTED IN THIS MANUAL CANNOT ANTICIPATEALL POSSIBLE CIRCUMSTANCES AND SITUATIONS YOU MAY ENCOUNTER. IT IS ALWAYS ESSENTIAL TO USE YOUR COMMON SENSE AND MAXIMUM SAFETY.

WE WISH YOU SUCCESSFUL USEOF

HUSAR WINCH

PRODUCTS!

DECLARATION OF CONFORMITY

ENG/25/07/2025/CE

(report No.)

1. Product manufacturer: **KWELLA Sp. z o.o.**
ul. Mickiewicza 36
32-626 Jawiszowice

2.Trademark : **HUSAR WINCH**

3. Description of equipment : **Electric Winch**

4. Model and/or serial number: BST 2000 lbs, BST 2500 lbs, BST 3500 lbs,BST S 3000 lbs, BST S 3500 lbs, BST S 4500 lbs, BST S 5500 lbs, BST 8500 lbs, BST 10000 lbs, BST 12000 lbs, BST S 12000 lbs, BST RS 12000 lbs, BST V 12000 lbs, BST 13000 lbs, BST 13500 lbs, BST S 13000 lbs, BST S 14000 lbs, BST S 16500 lbs, BST S 18000 lbs, BST S 20000 lbs, BST S 22000 lbs, BST S 26000 lbs, BST S 35000 lbs .

Hydraulic Winch

BST H 3300 lbs, BST H 12000 lbs, BST HS 12000 lbs, BST H 15000 lbs BST H 18000 lbs, BST H 20000 lbs, BST H 35000 lbs, BST H 45000 lbs, BST H 080 lbs

5. Purpose & scope of the product application : **The machines designed to:**
-pull damaged vehicles
- move of drag goods
- remover pull OFF Road vehicles
(In accordance with the reference document)

6. List of standards used & reference documentation: **The Machinery Directive MD 2006/42/WE**
-PN-EN 14492-2+A1:2010/AC:2014-7
- PN-EN ISO 12100:2012

Electromagnetic compatibility directive: EMC 2014/30/UE
(In accordance with the reference document)

I declare with full responsibility that the products referred to in item 3 and 4 are compliant with the reference documents mentioned in item 6.

25.07.2025 r.
(date of issue)

(Name signature of authorized person)

DECLARATION OF CONFORMITY

ENG/EN/01/01/2018/CE

(report No.)

1. Product manufacturer**:**	**PROFEL Sp. z o.o.** ul. Kolejowa 36 26-500 Szydłowiec
2. Trademark :	**HUSAR WINCH**
3. Description of equipment :	**ElectricWinch**
4. Model and/or serial number**:**	BST-EN3500 LBS,BST-EN 1000 LBS,BST-EN 13500LBS BST-EN12000 LBS BST-EN14000 LBS
5. Purpose&scope of the productapplication :	**The machneisdesigned to:** **-pulldamagedvehicles** **- move of drag goods** **- removeorpullOFFroadvehicles** (In accordance with the referencedocument)
6. List of standardsused&referencedocumentation:	**The Machinery DirectiveMAD 2006/42/WE** -PN-EN 14492-2+A1:2010/AC:2014-7 - PN-EN ISO 12100:2012

Electromagneticcompatibilitydirective: EMC 204/108/WE

(In accordance with the referencedocument)

I declar with fullresponsibilitythat the products referred to in item 3 and 4arecompliant with the referencedocumentsmentioned in item 6.

08/01/2018

(date of issue)

(Name&signature of authorized person)

DEAR CUSTOMER,

Thank you for purchasing HUSAR WINCH. In case of technical problems, please contact the service.

WARRANTY CONDITIONS

1. The warranty covers winches with a valid warranty documents. The warranty is valid together with the proof of purchase.

2. The warranty is granted for the period of 24 months from the winch delivery date. The delivery date is indicated on the warranty.

3. The guarantor undertakes to repair the factory defects of the winch found during the warranty period.

4. The warranty does not cover the winch defects occurring as a result of:

Repairs performed otherwise than by the guarantor, failure to comply with the principles of proper installation and operation described in the operation manual, storing the winch in improper conditions. neglect, lack of supervision, misuse, failure to follow winch handling principles, overloading the winch, random phenomena, such as: fire, electric discharge, flooding, operation of chemicals and force majeure circumstances and events.

5. The warranty does not cover mechanical operation defects such as:

enclosure damage, motor, gear and drum damage, caused by overloading the winch. The parameters winch, if exceeded, shall constitute winch overloading are specified in detail in the operation manual for the specified winch type.

6. The warranty does not cover enclosure elements and accessories which are subject to normal wear and tear during operation, such as: Scratching, persistent dirt, wearing the inscriptions, etc.

7. The winch rope, both steel rope and synthetic rope, is not covered by the warranty.

8. The warranty does not cover winches which the non-operational due to failure to assure proper maintenance.

9. The basis for considering the warranty claim is supplying the wing together with a valid warranty certificate, proof of purchase and complaint form, which should describe the defect and the circumstances in which it occurred as well as the type of vehicle in which the winch installed.

10. Contact the guarantor concerning the winch delivery at the specified address of the services, the guarantor shall cover the cost of transportation, as long as the winch is shipped through the courier indicated by the guarantor.

11. A defect reported during the warranty period shall be repaired by the guarantor at the guarantor's cost within 14 working days. The period shall commence on the first working day after the date of delivery to the service.

12. If the repair requires spare parts to be imported from abroad, the repair period may be extended to 60 days, to which the customer consents by using the service.

13. the customer is entitled to replacement of the winch into the new one if the guarantor finds the repair to be impossible. The winch shall be replaced with a new one,defect-free within not more than 30 days. If, in special cases(e.g. No such product non offer), the winch may not be replaced with the same type, the guarantor, on agreement with the customer,shall replace the winch into the winch of another type, with possibly te closest technical parameters. Such procedure shall be considered fulfilling the guarantor's obligations.

14. The warranty is extended by the period of the warranty service.

15. If the complaint turns out to be unfounded , the guarantor shall charge the customer with the cost of the warranty procedures and transport costs.

16. The guarantor is not liable for the damages resulting from incorrect winch operation. The guarantor shall not be responsible for additional costs incurred by the customer, resulting from damaging the winch.

17. The warranty rights do not incorporate the customer's claim for reimbursement of profits lost in connection with the winch defect.

18. If the customer does not accept the warranty conditions, they are entitled to return the winch to the seller at its own expense within 5 working days from the date of purchase. In this case, the winch may not show any signs of use.

19. In disputable matters, not regulated by this warranty, applicable regulartions of the

MODEL	NUMBER	DATE

BST 2000lbs	Technical specifications
Pull capacity (single line)	2000lbs / 907 kg
Motor	0,9 HP / 0,7 kW
Controls	Wired remote control
Gear ratio	153:1
Barke	automatic
Rope	15m x 4mm
Weight	3,5 kg
Dimentions	285mm x 105mm x105mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	500	1000	1500	2000
Line pull	Kg	0	227	454	680	907
Line speed	M/min	3,2	2,8	2,3	1,6	0,6
Motor current	Amper	12	30	60	90	120

Line pull and cable capacity

Layer of cable		1	2	3	4	5
	Lbs	2000	1630	1380	1190	1050
Rated line pull per layer	Kg	906	740	620	540	470
Cable capacity per layer	m	2	4,3	7,2	10,6	15

BST 2000lbs Y	Technical specifications
Pull capacity (single line)	2000lbs / 907 kg
Motor	0,9 HP / 0,7 kW
Controls	Wired remote control
Gear ratio	153:1
Barke	automatic
Rope	15m x 4mm
Weight	3,5 kg
Dimentions	285mm x 105mm x105mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	500	1000	1500	2000
Line pull	Kg	0	227	454	680	907
Line speed	M/min	3,2	2,8	2,3	1,6	0,6
Motor current	Amper	12	30	60	90	120

Line pull and cable capacity

Layer of cable		1	2	3	4	5
	Lbs	2000	1630	1380	1190	1050
Rated line pull per layer	Kg	906	740	620	540	470
Cable capacity per layer	m	2	4,3	7,2	10,6	15

BST 2500lbs	Technical specifications
Pull capacity (single line)	2500lbs / 1134 kg
Motor	0,9 HP / 0,7 kW
Controls	Wired/ wireless remote control
Gear ratio	153:1
Barke	automatic
Rope	10m x 4,8 mm
Weight	5,5 kg
Dimentions	285mm x 105mm x105mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	1000	2000	2500
Line pull	Kg	0	454	907	1134
Line speed	M/min	2,8	2	1	0,8
Motor current	Amper	12	60	120	140

Line pull and cable capacity

Layer of cable		1	2	3	4	5
	Lbs	2500	1630	1380	1190	1050
Rated line pull per layer	Kg	1132	860	620	540	470
Cable capacity per layer	m	1,5	3,5	5,9	8,7	10

BST 3500lbs	Technical specifications
Pull capacity (single line)	3500lbs / 1585 kg
Motor	1,2 HP / 0,9 kW
Controls	Wired/ wireless remote control
Gear ratio	153:1
Barke	automatic
Rope	12m x 4,8 mm
Weight	5,5 kg
Dimentions	318mm x 101mm x101mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	1000	2000	2500	3500
Line pull	Kg	0	454	907	1134	1585
Line speed	M/min	2,8	2	1,1	0,8	0,6
Motor current	Amper	12	60	90	150	180

Line pull and cable capacity

Layer of cable		1	2	3	4	5
	Lbs	3500	3000	2300	1890	1580
Rated line pull per layer	Kg	1587	1360	1043	857	680
Cable capacity per layer	m	1,5	3,5	5,9	8,7	12

BST S 3000lbs	Technical specifications
Pull capacity (single line)	3000lbs / 1361 kg
Motor	1,5 HP / 1,0 kW
Controls	Wired/ wireless remote control
Gear ratio	138:1
Barke	automatic
Rope	12m x 4,8 mm
Weight	7,5 kg
Dimentions	334mm x 114mm x120mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	1000	2000	3000
Line pull	Kg	0	454	907	1360
Line speed	M/min	7,5	4,5	3,2	2,1
Motor current	Amper	15	75	120	175

Line pull and cable capacity

Layer of cable		1	2	3	4
	Lbs	3000	2520	2170	1870
Rated line pull per layer	Kg	1360	1140	985	849
Cable capacity per layer	m	2,2	4,8	7,9	12

BST S 3500lbs	Technical specifications
Pull capacity (single line)	3500lbs / 1587 kg
Motor	1,5 HP / 1,1 kW
Controls	Wired/ wireless remote control
Gear ratio	198:1
Barke	automatic
Rope	12m x 5,5 mm
Weight	8 kg
Dimentions	332 mm x 114mm x115,5 mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	1000	2000	3000	3500
Line pull	Kg	0	454	907	1360	1587
Line speed	M/min 12V	4,9	3,2	2,8	2,2	1,8
Line speed	M/min 24V	4,9	3,2	2,8	2,2	1,8
Motor current	Amper 12V	15	70	105	135	150
Motor current	Amper 24V	10	35	55	70	80

Line pull and cable capacity

Layer of cable		1	2	3	4
	Lbs	3500	2870	2430	2100
Rated line pull per layer	Kg	1598	1300	1100	950
Cable capacity per layer	m	2,1	4,6	7,6	12

BST S 4500lbs	Technical specifications
Pull capacity (single line)	4500lbs / 2041 kg
Motor	1,7 HP / 1,3 kW
Controls	Wired/ wireless remote control
Gear ratio	198:1
Barke	automatic
Rope	12m x 6,3 mm
Weight	10 kg
Dimentions	348mm x 114mm x120 mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	1000	2000	3000	4500
Line pull	Kg	0	454	907	1360	2041
Line speed	M/min	4,9	3,2	2,8	2,2	1,5
Motor current	Amper	15	70	105	135	180

Line pull and cable capacity

Layer of cable		1	2	3	4
	Lbs	4500	3841	3310	2907
Rated line pull per layer	Kg	2042	1742	1501	1319
Cable capacity per layer	m	2	4,3	7,2	12

BST S 5500lbs	Technical specifications
Pull capacity (single line)	5500lbs / 2495 kg
Motor	2,5 HP / 3,4
Controls	Wired/ wireless remote control
Gear ratio	166:1
Barke	automatic
Rope	14,5 m x 6 mm
Weight	15,5 kg
Dimentions	408 mm x 125 mm x 123mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	2000	3000	4500	5500
Line pull	Kg	0	1523	1750	2057	2495
Line speed and motor current	M/min	3,9	2,6	2,1	1,4	1,1
Motor current	Amper	28	120	160	220	280

Line pull and cable capacity

Layer of cable		1	2	3	4
	Lbs	5500	4535	3858	3357
Rated line pull per layer	Kg	2495	2057	1750	1523
Cable capacity per layer	m	3,7	8	12,8	14,5

BST 8500lbs	Technical specifications
Pull capacity (single line)	8500lbs / 3856 kg
Motor	5,5 HP / 4 kW
Controls	Wired/ wireless remote control
Gear	3-stage planetary
Gear ratio	218:1
Barke	automatic
Rope	24 m x 8 mm
Weight	23,5 kg
Dimentions	440 mm x 160 mm x 218 mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	2000	3000	6000	8500
Line pull	Kg	0	907	1814	2722	3855
Line speed	M/min	7,8	4,8	3,63	2,95	2,4
Motor current	Amper	80	130	180	230	290

Line pull and cable capacity

Layer of cable		1	2	3	4
	Lbs	8500	6640	5600	4800
Rated line pull per layer	Kg	3855	3010	2540	2177
Cable capacity per layer	m	6	13,2	22	28

BST 10000lbs	Technical specifications
Pull capacity (single line)	10000lbs / 4536 kg
Motor	5,5 HP / 4 kW
Controls	Wired/ wireless remote control
Gear	3-stage planetary
Gear ratio	218:1
Barke	automatic
Rope	28 m x 9,2 mm
Weight	25,5 kg
Dimentions	535 mm x 160 mm x 218 mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	2000	6000	8000	10000
Line pull	Kg	0	907	2722	3629	4536
Line speed	M/min	6,8	4,8	2,98	2,44	1,8
Motor current	Amper	80	130	230	290	350

Line pull and cable capacity

Layer of cable		1	2	3	4
	Lbs	10000	8800	7800	6600
Rated line pull per layer	Kg	4535	3990	3538	2994
Cable capacity per layer	m	6	13,2	22	28

BST 12000lbs	Technical specifications
Pull capacity (single line)	12000lbs / 5443 kg
Motor	6,0 HP / 4,4 kW
Controls	Wired/ wireless remote control
Gear	3-stage planetary
Gear ratio	265:1
Barke	automatic
Rope	25 m x 9,1 mm
Weight	27,5 kg
Dimentions	535 mm x 160 mm x 218 mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	4000	6000	10000	12000
Line pull	Kg	0	1814	2722	4536	5443
Line speed	M/min 12V	6,8	3,8	3	2,1	1,7
Line speed	M/min 24V	10	7	5,5	3,2	2,7
Motor current	Amper 12V	80	170	210	310	360
Motor current	Amper 24V	45	70	95	185	240

Line pull and cable capacity

Layer of cable		1	2	3	4
	Lbs	12000	9900	8300	7000
Rated line pull per layer	Kg	5443	4490	3538	3175
Cable capacity per layer	m	6	13	22	26

BST 13000lbs	Technical specifications
Pull capacity (single line)	13000lbs / 5897 kg
Motor	6,5 HP / 4,7 kW 8,5 HP / 6,2 kW
Controls	Wired/ wireless remote control
Gear	3-stage planetary
Gear ratio	265:1
Barke	automatic
Rope	26 m x 10 mm
Weight	27,5 kg
Dimentions	535 mm x 160 mm x 218 mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	4000	6000	10000	13000
Line pull	Kg	0	1814	2722	4536	5897
Line speed	M/min 12V	6,8	3,8	3	2,1	1,7
Line speed	M/min 24V	10	7	5,5	3,2	2,7
Motor current	Amper 12V	80	170	210	310	380
Motor current	Amper 24V	45	70	95	185	250

Line pull and cable capacity

Layer of cable		1	2	3	4
	Lbs	13000	9900	8300	7000
Rated line pull per layer	Kg	5897	4490	3765	3175
Cable capacity per layer	m	6	13	22	25

BST 13500lbs	Technical specifications
Pull capacity (single line)	13500lbs / 6124 kg
Motor	6,7 HP / 4,9 kW
Controls	Wired/ wireless remote control
Gear	3-stage planetary
Gear ratio	265:1
Barke	automatic
Rope	22 m x 9,5 mm
Weight	27 kg
Dimentions	546 mm x 160 mm x 251 mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	4000	6000	10000	13500
Line pull	Kg	0	1814	2722	1150	6124
Line speed	M/min	6,8	3,8	3	2,1	1,2
Motor current	Amper	80	170	210	310	420

Line pull and cable capacity

Layer of cable		1	2	3
	Lbs	13500	11500	9600
Rated line pull per layer	Kg	6124	5216	4355
Cable capacity per layer	m	6	13	22

BST S 12000lbs	Technical specifications
Pull capacity (single line)	12000lbs / 5443 kg
Motor	6,0 HP / 4,4 kW
Controls	Wired/ wireless remote control
Gear	3-stage planetary
Gear ratio	265:1
Barke	automatic
Rope	26 m x 10 mm
Weight	21 kg
Dimentions	545 mm x 160 mm x 194 mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	4000	6000	10000	12000
Line pull	Kg	0	1814	2722	4536	5443
Line speed	M/min	6,8	3,8	3	2,1	1,7
Motor current	Amper	80	170	210	310	360

Line pull and cable capacity

Layer of cable		1		2	3	4
	Lbs	12000		9900	8300	7000
Rated line pull per layer	Kg	5443		4490	3765	3175
Cable capacity per layer	m	6		13	22	25

BST S 13000lbs	Technical specifications
Pull capacity (single line)	13000lbs / 5897 kg
Motor	6,5 HP / 4,7 kW 8,5 HP / 6,2 kW
Controls	Wired/ wireless remote control
Gear	3-stage planetary
Gear ratio	265:1
Barke	automatic
Rope	26 m x 10 mm
Weight	27,5 kg
Dimentions	546 mm x 160 mm x 218 mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	5000	8000	12000
Line pull	Kg	0	2268	3629	5897
Line speed	M/min 12V	6,8	5,3	2,55	1,7
Line speed	M/min 24V	10	6,25	4,35	2,7
Motor current	Amper 12V	80	190	260	380
Motor current	Amper 24V	45	82,5	140	250

Line pull and cable capacity

Layer of cable		1	2	3
	Lbs	13000	8000	5000
Rated line pull per layer	Kg	5897	3629	2268
Cable capacity per layer	m	2	8	15

BST V 12000lbs	Technical specifications
Pull capacity (single line)	12000lbs / 5443 kg
Motor	6,6 HP / 4,9 kW
Controls	Wired/ wireless remote control
Gear	3-stage planetary
Gear ratio	216:1
Barke	automatic
Rope	26 m x 10 mm
Weight	27 kg
Dimentions	563 mm x 160 mm x 280 mm
Fairlead	4-ways rollers fairlead

Line speed and motor current (first layer)

	Lbs	0	4000	6000	9500	12000
Line pull	Kg	0	1814	2722	4309	5443
Line speed	M/min	10	4,6	4	3,2	2,8
Motor current	Amper	70	210	260	310	420

Line pull and cable capacity

Layer of cable		1	2	3	4
	Lbs	12000	9919	8221	7019
Rated line pull per layer	Kg	5443	4499	3729	3183
Cable capacity per layer	m	4,8	10,8	18,1	26

HUSAR WINCH BETTER STRONGER TOUGHER

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