

Ropetek Wraptor HD™ Instruction Manual

Original Instructions: English Language

Revised 1/2023



Warning! Risk of death by falling. Working at elevation with ropes as the only means of support involves a risk of death.



Warning! Risks of serious injury. You must read and understand ALL of the safety precautions contained in these instructions.

Safe working at elevation with ropes is a complex activity. It requires proficiency in site and rope set up, and the correct selection and use of a fall protection system. The Wraptor HD is NOT part of a fall protection system; its only function is to assist ascent.

If you do not know how to apply rope-work regulations from OSHA 29 CFR 1910 (or the equivalent workplace code in your jurisdiction), then you are not qualified to use the Wraptor HD. Training programs are available to educate yourself for working at height with ropes as the only means of support.

THIS MANUAL DOES NOT TEACH HOW TO WORK SAFELY AT HEIGHT USING ROPES FOR SUPPORT. YOU MUST BE PROFICIENT AT THIS BEFORE USING THE WRAPTOR HD

SPECIFICATIONS

Lifting Capacity	140.6 (310lbs)
Ascent Line	7/16 to 5/8 double braid rope. Minimum breaking strength of 5000lbs.
Sound Pressure Level	95.1 dBa
Sound Power Level	116 dBa
Vibration Level	7.1 m/s ²
Speed	30.48m/min (100fpm)
Dry Weight	10.4 kg (23 lbs)
Fuel	Unleaded 86 Octane or higher (Do not use mix)
Fuel Tank Capacity	.67 (22.8 fl. oz.)
Engine Displacement	35cc
Serial Number	6 Digit Code

SERVICE INSTRUCTIONS

- Engine parts need to be replaced using only engine manufacturer approved parts
- The more common sources of failure to ascend are: slippage of hub on the ascent rope due to worn ribs. The hub is NOT a user serviceable part. For hub replacement, contact RopeTek.



Rope-Tek , LLC
EARLYSVILLE, VA
USA

WRAPTOR HD™



SAFETY WARNINGS

Before each use:

- Inspect the entire length of the ascent line. Follow the ascent line manufacturer's directions for acceptable damage, wear, deterioration and age limits.
- Inspect the other parts of the fall protection system before each use. Follow the manufacturer's directions for inspection of rope grab, lanyard, personal harness or belt, and carabiners.
- Check the attachment of the lanyard to the Wraptor HD. The bolt or U-bolt must be tight and sound. Tighten or replace rope loop fastener before using the Wraptor HD if found to be unsafe.
- Check the frame of the Wraptor HD for cracked welds. Do not use the Wraptor HD if any weld shows signs of cracking.
- Check the hub and fairlead for sharp edges that could damage the ascent rope.
- Check for any loose fasteners prior to daily use.



Wear Eye, Ear, and Head Protection

- Risk of blindness from running into obstacles or falling debris. Wear safety-rated glasses or goggles (PPE). Look up during ascent.
- Risk of hearing loss from exposure to loud noise. Wear hearing protection (PPE).
- Risk of falling objects. Wear a safety-rated helmet (PPE) that is appropriate for the job site.



Risk of Fire and Explosion

- Gasoline is easily ignited. Never have an open container of gasoline near a source of ignition, such as smoking or fires.
- The engine can emit sparks if the muffler is worn out. Replace the muffler/spark arrestor as you see any emission of sparks.

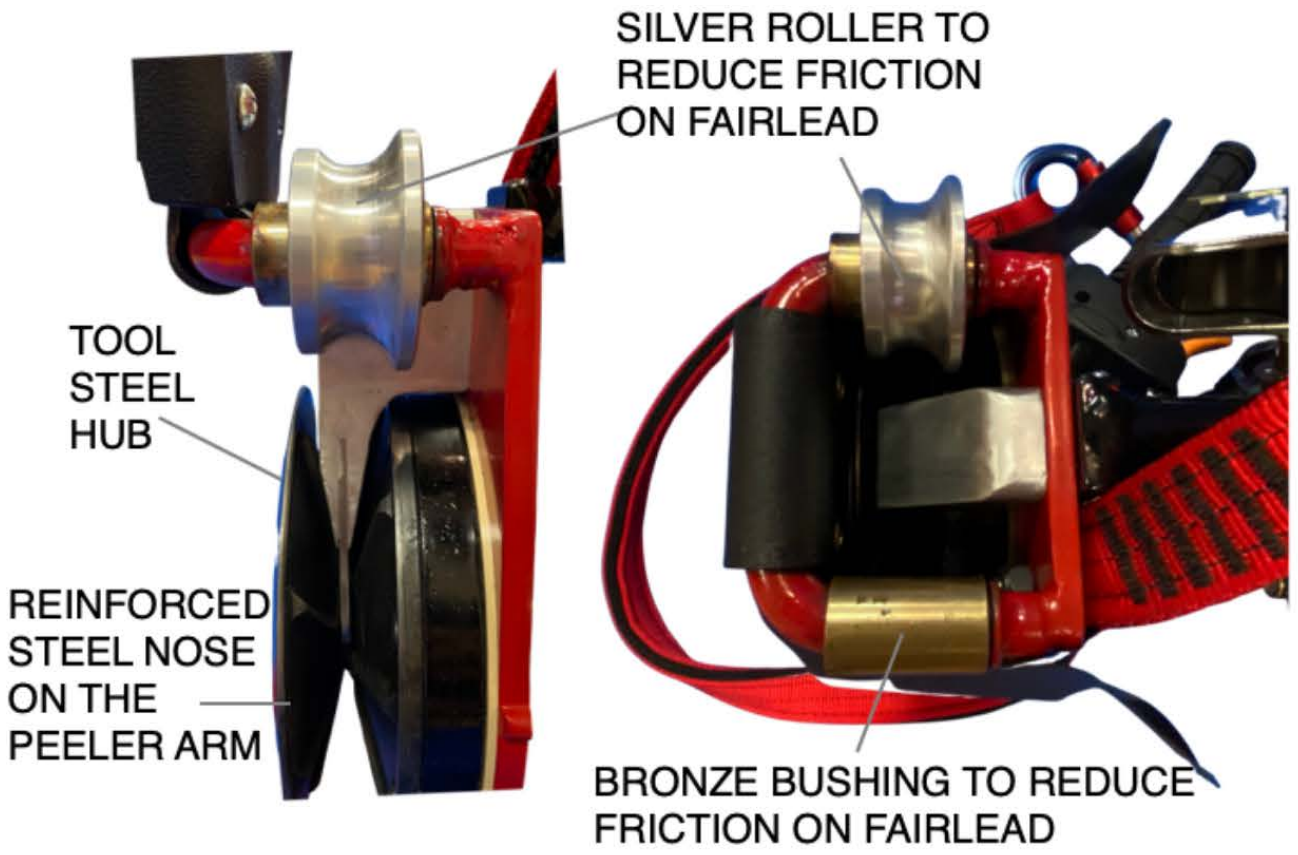
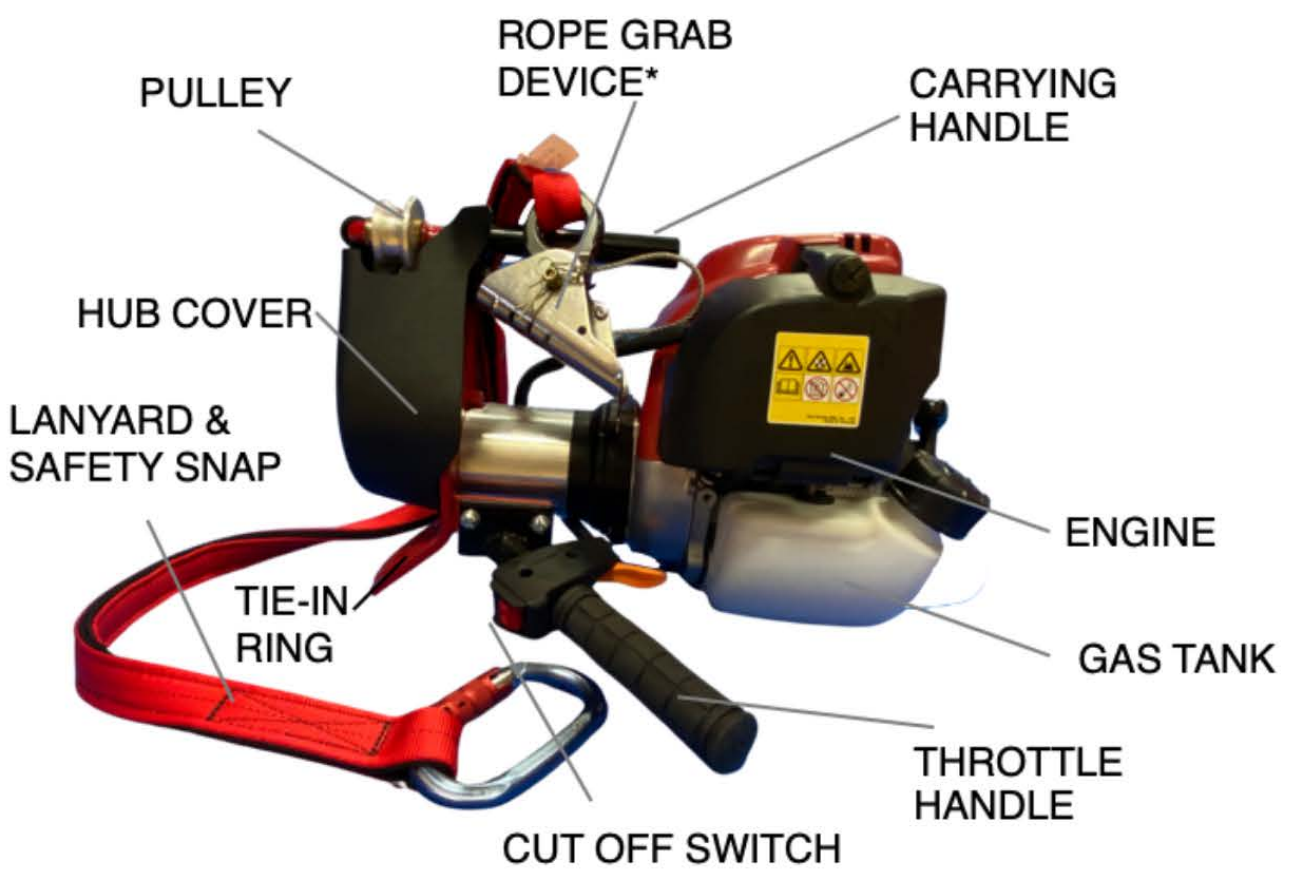


Vibration

- The Wraptor HD is a source of vibration. Risk of permanent soft tissue injury and loss of ability to grip. Immediately stop using the Wraptor HD and other sources of hand vibration if tingling or numbness occur. Do not use the Wraptor HD hands on - power on for more than 10 minutes at a time or more than 120 minutes per day.



WARNING: The Wraptor HD uses gasoline and emits chemicals known to the State of California to cause cancer.



The Rope Grab device is NOT part of the Wraptor HD™. An approved Rope Grab must be securely attached to the Wraptor HD™ and to the user, as a back up means of fall prevention.

Approved means acceptable to the workplace safety regulators, OSHA in parts of the United States, or bearing the "CE Marking" as PPE for most of Europe.

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WARNING: THIS MANUAL DOES NOT TEACH HOW TO WORK SAFELY AT HEIGHT USING ROPES FOR SUPPORT. YOU MUST BE PROFICIENT AT THIS BEFORE USING THE WRAPTOR HD.

MAKE SURE YOU READ AND UNDERSTAND ALL DIRECTIONS PRIOR TO USE

SETTING UP ASCENT LINE

1. To use the Wraptor HD, the climbing professional must first select an anchor point to set the designated Wraptor HD ascent line. The anchor point should be considered part of the climbing system. Tie off the designated Wraptor HD ascent line using appropriate industry standards and best practices.
2. Perform a secondary safety check of the ascent line and anchor point per industry and regulatory criteria and requirements, before setting up the Wraptor HD.

SETTING UP THE WRAPTOR HD

1. Lift cover to expose hub.
2. From the ascent line you have set, take a bite of rope, push through the fairlead and slip bite around hub. Standing end should be at the back, or farthest from the throttle, leaving the tail end to rest over the exit pulley.
3. Set up rope grab device on standing end of rope.
4. Start the Wraptor HD. First push power switch on. Second push choke lever up. Third, start motor. Once started, run the Wraptor HD up the ascent line until at chest level.
5. Attach harness to Wraptor HD Tie-in Ring. Use an adjustable descent device (i.e. Grigri, etc.) as a safety precaution. Attach back up lanyard to your climbing harness using the safety snap.
6. Climber is now ready to ascend to the TIP. Hold handle with right hand and pull trigger to modulate speed. Do not hold ascent rope with free hand. As you ascend, look up to navigate obstructions and other hazards. Operate at full throttle or else the clutch will slip and wear out.

DETACHING AND GROUND RETRIEVAL

1. Once desired height is reached, climber should secure him/herself to the tower with a back/dorsal lanyard and main lanyard using industry standard hooks. i.e. pelican hooks/Grillions/rebar hooks/carabiners.
2. Only after securing safety lanyards, is it safe to disconnect the rope grab device from the climbing harness and lower Wraptor HD.

EMERGENCY RETREAT

The Wraptor HD will only ascend. In the event there is need to come down before reaching the TIP (e.g. run out of gas, injured climber) it will be necessary to descend by other means. Follow emergency protocol as set by workplace safety regulators.

SELF RETREAT: If Wraptor HD stops during ascent, attach back/dorsal lanyard and main lanyard to the tower and disconnect from the Wraptor HD.

GROUND ASSIST DECENT: In the unlikely event of the climber becoming incapacitated, follow rescue procedures per industry regulations and training.

SECONDARY ASCENT LINE:

- The Wraptor HD instructions detail how to set-up and use the motorized ascender
- Please set up and use secondary safety lines per industry regulations

RISK OF DEATH BY FALLING

- Use approved ascent line 7/16 to 5/8 double braid rope. Minimum breaking strength of 5000lbs.
- Inspect full length of ascent line before use
- Use approved rope grab device (PPE)
- ALWAYS ATTACH ROPE GRAB TO ASCENT LINE
- ALWAYS ATTACH LANYARD TO CLIMBING HARNESS

RISK OF EYE LOSS OR INJURY

- When on powered climb, you may encounter falling debris that can puncture your eye. Wear safety-rated glasses or goggles (PPE). Look up when ascending

RISK OF PINCHED OR CRUSHED FINGERS

- Do not hold ascent line while ascending