

HEAD RUSH TECHNOLOGIES

GORILLA ROPE™

OPERATOR MANUAL

READ BEFORE INSTALLATION & OPERATION

Failure by the installer or operator to heed all instructions, warnings, and cautions for the correct installation, operation, care, and maintenance of Gorilla Rope may result in serious injury or death.

Refer to the zipSTOP Zip Line Brake Installation Manual as well as the zipSTOP Zip Line Brake Operation and Maintenance Manual when using the Gorilla Rope in conjunction with the zipSTOP Zip Line Brake.

Use of the Gorilla Rope as a redirection line with the zipSTOP Zip Line Brake or other brake unit without an Emergency Arrest Device (EAD) is prohibited.

HEALTH & SAFETY

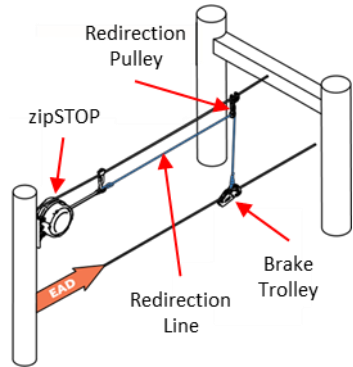
Owners and operators must abide by all standards, international, federal, state and provincial laws, and any specific health and safety regulations pertaining to the installation and use of this product.

DESCRIPTION

Gorilla Rope is designed specifically for use in the recreational zip line industry. Gorilla Rope is intended to be used along with HRT's Redirection Pulley (RP-701) as the redirection line between the zipSTOP Zip Line Brake and the Brake Trolley.

Use of Gorilla Rope for other purposes is permitted if all applicable specifications and regulations are met.

Permanent extension will occur at the beginning of the ropes' life. The redirection line may have to be reviewed and reset after the first uses of the line.



SPECIFICATIONS

DIAMETER	6mm
STATIC STRENGTH (MINIMUM)	18.7kN (4,200lb)
ELONGATION	@ 10% of break load: 0.51% @ 20% of break load: 0.89% @ break load: 3.6%
OPERATING TEMPERATURE (MAXIMUM)	80°C (176°F)
WEIGHT	2.4 kg/100 m (1.5 lbs/100 ft)
MATERIAL OF CORE	Dyneema® SK78
MATERIAL OF SHEATH	High Tenacity Polyester

SYSTEM COMPONENTS

All components of the zip line braking system must be compatible with Gorilla Rope. Ensure all components comply with their manuals and meet necessary standards by the authority having jurisdiction. All components used must not show signs of damage or excessive wear.

Gorilla Rope must be used with a proper pulley. Pulleys must meet the 15kN minimum strength requirement of EN 12278 and have a specified rope diameter range that includes 6mm.

CUTTING

Rope ends will fray when cut. The following instructions offer the best method of cutting:

1. Decide where the Gorilla Rope needs to be cut.
2. Wrap tape (climbing, electrical, etc) around the cutting point. The tape should wrap around at least 5cm (2in) of the rope.
3. Pull the Gorilla Rope tight and use a razor blade to cut in a smooth sawing motion in the middle of the taped section.
4. Add tape to the cut ends or use a rope whipping product to prevent fraying.
5. ***Do not use a lighter or heat source to melt the ends***

TERMINATION

Gorilla Rope can be spliced. This is the strongest method of termination. A good splice using the recommended method should not reduce the strength of a rope by more than 10%.

A knot will reduce the strength of the rope, sometimes very significantly (up to 60%). This loss is caused by the tight bends and compression found in any knot. The amount a rope will be weakened will depend on the knot, type of rope, and the material from which it is made.

A figure eight knot with a double fisherman's termination is the recommended termination knot. Once terminated, the tail of the rope should be no less than 7cm (2.75 inches).

Do not splice or tie two ropes together to use as a single redirection line.

CLEANING

1. Place Gorilla Rope in a large bucket or in a washing machine.
2. If hand washing, fill the bucket with warm water and mild detergent. Agitate the rope inside the bucket to release any dirt and grime. Drain the water and repeat until the water runs clean.
3. If machine washing, a mild detergent must be selected, and the gentle cycle must be used.
4. To dry, hang the Gorilla Rope uncoiled in a clean, cool and dry location away from direct sunlight. Do not use heat to dry Gorilla Rope.

SUN, WATER, DEBRIS & CHEMICALS

1. **Water Exposure:** Fresh water will have minimal effects on the strength and abrasion resistance of the Gorilla Rope. Salt crystals are naturally abrasive and will affect the life and efficiency of ropes.
2. **Sunlight Exposure:** Gorilla Rope has high UV resistance but should be inspected for UV degradation. UV damage is evidenced by discoloration of the sheath. Gorilla Rope should be replaced when discolored.

SHARP EDGES

Ensure that Gorilla Rope does not rub against or come into contact with sharp edges or rough surfaces. Inspect all pulleys, connectors, etc. for wear.

DEBRIS









Never store Gorilla Rope on concrete or dirty floors, as dirt and grit picked up by the ropes can work into the strands cutting the inside fibers, leading to damaged ropes and equipment.

STORAGE

Storage should be clean, dry, without extremes of temperature, and out of direct sunlight or other strong lighting.

INSPECTION PROCEDURE

Upon receiving Gorilla Rope and before each day of use, the entire length must be checked for signs of wear. If the rope is wet, it is best to let the rope dry before inspecting. A qualified inspector should inspect for the following:

FRAYED ENDS		ABRASIONS, NICKS, OR CUTS	
			
Ends must be properly terminated		Fuzzy rope is OK.	Nicked or cut rope must be retired.
CHEMICAL/HEAT BURNS		DISCOLORATION	
			
Ropes exposed to harsh chemicals must be retired	Ropes with burns must be retired.	Discoloration from standard use is OK.	
COMPROMISED CORE			
If there is a soft spot in the rope, an inconsistency in the rope diameter, or excessive bunching of the sheath, the core may be compromised. To check, make a tight loop in the rope and inspect per the images below.			
			
When looped, the rope must hold a circular shape.		If the rope kinks, the rope must be retired.	

If any of the above are found or you feel that there may be a questionable issue with the rope, remove from use immediately. Please keep a record of all Gorilla Rope inspections.

RETIRING GORILLA ROPE

To retire Gorilla Rope, cut into sections to ensure it will not be reused. Gorilla Rope must be retired if:

- it has been subject to excessive impact loads.
- it is greater than 10 years old (from manufacturing date).
- it has been exposed to flame, high heat, or excessive abrasion.
- it has been exposed to any chemicals.
- it has a compromised core.
- Any doubt exists about its continued serviceability.

MANUFACTURER

Head Rush Technologies
1699 Cherry Street, Suite C
Louisville, CO 80027
USA

+1-720-565-6885
www.headrushtech.com
info@headrushtech.com

EU REPRESENTATIVE

Head Rush Technologies Europe
129 Avenue de Genève
74000 Annecy
France



Gorilla Rope Operator Manual

Manual P/N 11165-04

Jan 2025