

GIN



## pilot manual

v1.0, 05/2014





 **Yeti**

 **Yeti**  
**Xtrem**

 **Yeti**  
**Convertible**

*Ultralight Harness*

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# Thank you...

...for choosing Gin Gliders. We are confident you'll enjoy many rewarding experiences in the air with your GIN Yeti.

This manual contains important safety, performance and maintenance information. Read it before your first flight, keep it for reference, and please pass it on to the new owner if you ever re-sell your harness.

Any updates to this manual, or relevant safety information, will be published on our website: [www.gingliders.com](http://www.gingliders.com). You can also register for e-mail updates via our website.

GIN team

Happy flying and safe landings,

# Warning

Like any extreme sport, paragliding involves unpredictable risks which may lead to injury or death. By choosing to fly, you assume the sole responsibility for those risks. You can minimize the risks by having the appropriate attitude, training and experience and by properly understanding, using and maintaining your equipment. Always seek to expand your knowledge and to develop self-reliance. If there is anything you do not understand, consult with your local dealer as a first point of contact, with the GIN importer in your country or with Gin Gliders directly.

Because it is impossible to anticipate every situation or condition that can occur while paragliding, this manual makes no representation about the safe use of the paragliding equipment under all conditions. Neither Gin Gliders nor the seller of GIN equipment can guarantee, or be held responsible for, the safety of yourself or anyone else.

Many countries have specific regulations or laws regarding paragliding activity. It's your responsibility to know and observe the regulations of the region where you fly.

# About Gin Gliders

## *Dream*

In forming Gin Gliders, designer and competition pilot Gin Seok Song had one simple dream: to make the best possible paragliding equipment that pilots all over the world would love to fly—whatever their ambitions.

At Gin Gliders, we bring together consultant aerodynamists, world cup pilots, engineers and paragliding school instructors, all dedicated to fulfilling this dream.

## *Touch*

We're a "hands-on" company that puts continuous innovation and development at the centre of everything we do.

At our purpose-built R&D workshop at head office in Korea, we are able to design, manufacture, test-fly and modify prototypes all in a matter of hours. Our international R&D team is on hand both in Korea and at locations worldwide. This guarantees that your equipment has been thoroughly tested to cope with the toughest flying conditions.

Our own production facilities in East Asia ensure the quality of the finished product and also the well-being of our production staff.

## *Believe*

We believe that the product should speak for itself. Only by flying can the pilots understand their equipment and develop trust and confidence in it. From this feeling comes safety, comfort, performance and fun. The grin when you land should say it all!

# Introducing the Yeti

The Yeti is an ultralight harness that we designed for our hike'n fly enthusiasts. It works perfectly for para-alpinism, speedflying and travel. Its lightweight and compact design is suited for a minimalist pilot who wants a safe and comfortable ride.

We offer 3 versions of the Yeti harness. The Yeti: an ultralight harness with opening leg buckles and shoulder reserve attachment points. The Yeti Xtrem: cuts all the fat with a step-in design and the removal of the rescue attachment points. Lastly we have the Yeti Convertible: a minimalist reversible harness that manages to pack in all of the standard features like the speedbar pulleys, rescue attachment points, and a built in rucksack.

The Yeti family covers all your lightweight needs. The Yeti and Yeti Convertible offer a variety of additional safety features. Add an optional airbag and a rescue designed specifically for your lightweight requirements. With our extended Yeti product line you can equip yourself with everything from a lightweight Yeti speedbar, Yeti rescue and up to our Yeti Alpine Bag, a rucksack made for you serious hike'n fly pilots.

Compared to the lightest ultralight harnesses on the market, the Yeti offers an excellent ratio of comfort to weight and improved durability with an unbeatable variety of customizable options.

## Specifications

The Yeti, Yeti Xtrem and Yeti Convertible are EN/LTF Certified

### Yeti Xtrem

Size	One Size
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Weight (kg)	500g
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### Yeti

Size	One Size
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Weight (kg)	600g
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### Yeti Convertible

Size	One Size
------	----------

Weight (kg)	1400g
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## Delivery package: Yeti, Yeti Xtrem, Yeti Convertible

- 1 Harness
- 2 Yeti Peguet Carabiners
- 1 USB manual

## Components of the Yeti & Yeti Xtrem

Manual 'pass through' leg buckles  
(not on Xtrem)



Manual 'pass through' chest Buckle



Rescue Shoulder attachment points  
(Not on Xtrem)



2 Yeti Peguet Carabiners



Speedbar pulley



Yeti Airbag attachment points  
(not on Xtrem)



## Components of the Yeti Convertible

Manual 'pass through' chest and leg buckles



Rucksack



Tunnel for rescue bridle  
(& on Yeti)



2 Yeti Peguet Carabiners



Speedbar pulley



Yeti Airbag attachment points



## Components of the Yeti

### Manual 'pass through' buckles

The Yeti, Yeti Xtrem and Yeti Convertible are designed with lightweight, multifunction buckles. The chest buckle is used to both adjust the harness size and connect the chest straps. The leg buckle on the Yeti and Yeti Convertible allow for easy in and out attachment points while the Yeti Xtrem is designed as a Step-in harness to allow for maximum weight reduction.

### Rescue

The Yeti and Yeti Convertible are equipped with rescue bridle attachment points sewn into the shoulders for a safer PLF (Parachute Landing Fall) position. Sewn into the right-hand side of the harness is a bridle tunnel that passes from the riser attachment up to the shoulders. The Yeti Xtrem has no shoulder attachment points but a rescue can be attached to the main carabiners.

### Speed bar

All of the Yeti harnesses are equipped with a Pulley and ring for speedbar routing.

### Carabiners

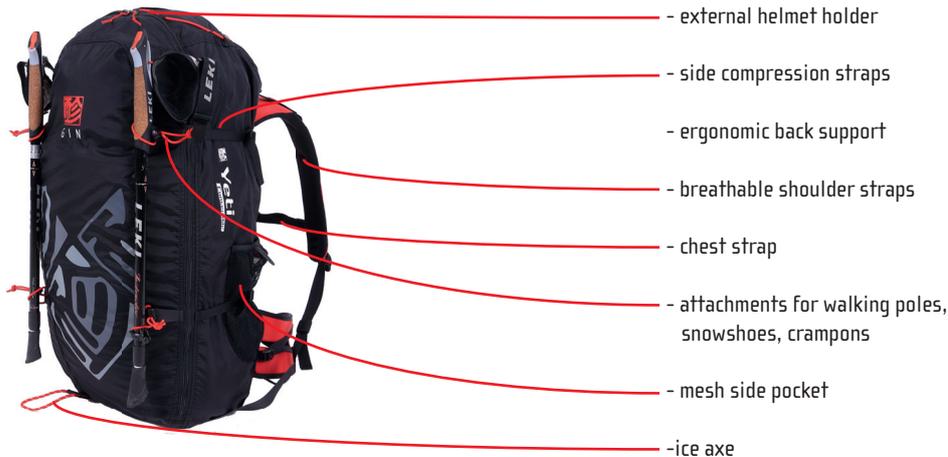
Included with your harness are two 2 Yeti Peguet carabiners. With the Yeti Xtrem you can use the main carabiners as your attachment point for your rescue.

### Yeti Airbag attachment points

On the Yeti and Yeti Convertible there are attachment points for an optional airbag. The airbag adds lightweight safety and can easily be attached or removed.

## Yeti Convertible Rucksack

The Yeti Convertible is designed as a reversible pack. Hike up the mountain with all of your gear stored inside your harness. Using a reversible pack greatly reduces your weight and adds comfort and convenience. The Rucksack is designed with padded shoulders and hip belt with breathable mesh material. The back is made with both rigid and soft foam for structure and ergonomic back support. The pack has been engineered for hikers with a mesh outer side pocket, hiking pole ties, ice axe loop and a flexible helmet strap.



## Optional Items

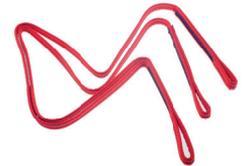
Yeti Airbag (Yeti only)



Yeti Convertible Airbag (Yeti Convertible)



Yeti bridle (Yeti & Yeti Convertible)



Yeti Alpine Bag



Yeti Speed Bar



Yeti front container (recommended for Yeti & Yeti Convertible)



Yeti Rescue #27/35/40



For the latest Accessories go [www.gingliders.com](http://www.gingliders.com)

# Before you fly

Make sure your dealer has checked the harness for completeness and basic settings. Your harness must be assembled by a suitably qualified paragliding professional, for example, your instructor.

Gin Gliders recommend that assembly be carried out in the following order. If you are in any doubt whatsoever about this procedure, please seek professional advice from your instructor, GIN dealer or importer.

## Installing the speed system

Assemble the speed system from bottom to top. Pass the cord of the speed bar through the speed ring located on the bottom edge of the harness seat. Route the cord up through the pulley and tie it to the speed connector.

**CAUTION:** Make sure that the speed system is not too short. The front risers of your paraglider must not be pulled down in normal (unaccelerated) flight.



## Speed Bar

Hanging in the simulator, adjust the length of the speed bar cord so that the bar hangs at least 15cm below the front of the harness. Making the cord too short could result in the speed system being constantly or unintentionally engaged during flight. It is safer to start with the speed bar a little long and shorten it following your first flights. Test the speed bar in flight only after you are comfortable with your new harness, and always do so in calm conditions with ample clearance above the ground.



## Attach Carabiner

Attach the 2 Yeti Peguet Carabiners to the harness first and then attach to your risers.



## Rescue Installation Guide

### Yeti & Yeti Convertible

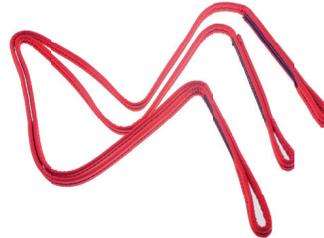
Attach your rescue container to the Yeti Convertible Bridle. Run the bridle through the bridle tunnel and attach the bridle to the shoulder anchors. Use rubber bands or tape to hold the bridle in place. Then, cover the attachment with the neoprene sleeve.



1



2



1



2

(Follow the rescue containers manual)

### Yeti Xtrem

Gin gliders recommends the use of the Lite Yeti Container with the Yeti Xtrem. Attach the supplied bridle to the main carabiners as show below.

### Rescue Installation and compatibility check

Gin Gliders recommend that rescue installation is performed properly by a competent person. The Yeti is compatible with GIN Yeti rescue parachutes and Gin front containers. Other manufacturers' rescues may also be used but we cannot guarantee their efficacy—check your rescue manual for details.

Every first installation of a rescue system into the harness (that means every new combination of harness and rescue system) must be checked by a qualified paragliding professional for compatibility. To verify the installation, you must perform a test deployment by sitting in a simulator.

Rescue parachutes should be repacked at least every 150 days; so installing your rescue in a new harness may also provide a good opportunity for a repack. After every repack of the rescue parachute you should also do a compatibility check. Make sure that the rescue parachute can be released from the rescue container attached to the harness—it must be done by you, the pilot, sitting in the harness hanging from a simulator.

**WARNING:** If you are in any doubt about any aspect of rescue installation, seek professional advice.

**IMPORTANT:** You must perform a test deployment from a simulator to verify the installation.

## Adjustments

Adjust the Yeti to suit your physique and flying style. It is important to adjust it correctly to ensure you can easily slide into the sitting position after take off. A poorly adjusted harness can adversely affect the flying characteristics of your paraglider.

Perform adjustments before your first flight by hanging in a simulator and fine-tune the settings if necessary during your first few flights.

### Shoulder Straps

The optimum setting for the shoulder straps depends on the height of the pilot. Stand upright with the chest/leg straps closed, and symmetrically adjust the shoulder straps until they are a snug fit, but not tight. To loosen the shoulder straps, pull up and back on the plastic adjustment.

### Chest Strap

The adjustment of the chest strap controls the distance between the carabiners and affects the handling and stability of the glider. Widening the distance between the carabiners increases feedback from the wing and allows for easier weight shifting. Closing the strap gives you a more stable feeling in turbulence but increases the risk of stable spiral and also the risk of twisting! The chest strap may also be adjusted in flight according to the conditions; for example, it may be tightened in turbulent air and flown at a looser setting in less turbulent or weak conditions. Tighten by pulling on the orange loop and loosen by pulling on the red.

### Side Straps

The side straps adjust the sitting position of the pilot. The tighter the adjustment the more upright position the pilot will adopt. Adjust by pulling up and forward on the orange loops.

**CAUTION:** If not properly adjusted you may cause damage to your harness or increase the risk of an accident in flight.

**NOTE:** The first step to good flying is properly adjusting your harness before take-off.

SEE PAGE: 28 for diagram

# Flying with the Yeti

## General warnings and advice

Before every flight, check the following:

Are you in good physical and mental condition?

Are you familiar and compliant with all applicable laws and regulations in your area?

Are you within the certified weight range of your paraglider?

Do you have the necessary valid insurance cover (e.g. liability, medical, life)?

Are you briefed thoroughly about the site, airspace and expected weather conditions of the day?

Is your equipment and choice of site suitable for your level of experience?

Do you have a suitable helmet, gloves, boots, eyewear and adequate clothing?

Are you carrying some form of identification, so that people know who you are in case of an accident? Take along a radio and mobile phone if possible.

Do you fully understand how to safely use your new equipment? If not, have your instructor or dealer explain anything you are not sure about.

When you go for your first flight on your new Verso, be sure to pick a day and site that does not present you with any unfamiliar challenges. During your first flight, familiarize yourself with the in-flight characteristics of your new harness.

## Pre-flight checks

As part of your normal pre-flight check routine, check that:

Is there any damage to the harness or carabiners that could affect its airworthiness?

Is the rescue parachute container closed correctly with the pins in the right position?

**IMPORTANT:** Use a complete and consistent system of pre-flight checks and repeat the same sequence every flight.

Is the deployment handle correctly inserted or attached?

Are all buckles, belts, zips securely fastened? Buckles should click into place as you close them, and a gentle pull on the fastened buckle verifies this. Secure any zips after fastening the buckles. Take extra care in snowy or sandy environments.

Is the paraglider connected correctly to the harness with both carabiners secured by their locking mechanisms?

Is the speed bar attached correctly to the glider?

Are all pockets closed properly and any loose items tied down safely?

Is the air chamber intake open and clear?

Have you closed your leg and chest straps? Double check before you take off!

### Rescue Deployment

In the event of an emergency, you must quickly evaluate your height and the seriousness of the incident. A second's hesitation in deploying the reserve could prove fatal if there is insufficient height. On the other hand, deploying the rescue when the glider is recoverable may result in needless injury.

If you decide to deploy the rescue:

Look for the rescue handle and grasp it firmly with one hand

Pull sideways and upwards on the handle to release the deployment bag from the rescue container

Look for a clear area, and in a continuous motion, throw (and RELEASE!) the rescue away from yourself and the glider, preferably into the air stream or against the direction of spin. After

**IMPORTANT:** In normal flight, periodically feel the position of the rescue handle so that the action of reaching for the rescue handle is instinctive in an emergency.

**WARNING:** During any incident in flight, always monitor your altitude. If you have any doubt that you have sufficient height for recovery, deploy your reserve without hesitation. "If low, then throw".

deployment, avoid entanglement and pendulum motions by promptly pulling in the glider as symmetrically as possible with the B, C, D or brake lines.

On landing take an upright body position and be prepared to do a PLF (Parachute Landing Fall) to minimize the risk of injury.

### Landing with the Yeti

Before landing, slide your legs forward in the harness so that you adopt the standing position. NEVER land in the seated position—it is very dangerous even if you have back protection. Standing up before landing is an active effective safety precaution.

### Miscellaneous

#### Towing

The Yeti harnesses are not recommended for towing.

#### Tandem Flying

The Yeti harnesses are not designed for tandem flying. See [www.gingliders.com](http://www.gingliders.com) for details of our harnesses specifically designed for tandem flying.

#### Flying over water

The Yeti harnesses are not recommended for the extreme manoeuvres and should not be flown over water. Landing in water may be dangerous and could lead to drowning. Increased risk of drowning when landing in water with an Airbag.

**IMPORTANT:** Each time you land, always be prepared to perform a PLF (Parachute landing fall).

**DANGER:** Water landing could cause drowning. Do not fly over water.

# Maintenance and repairs

The materials used in the Yeti harnesses have been carefully selected for maximum durability. Nevertheless, keep your harness clean and airworthy to ensure the longest possible period of safe operation.

## Care and maintenance

Don't drag your harness over rough or rocky ground. Avoid unnecessary exposure to UV rays, heat and humidity. Keep the folded harness in your rucksack when not in use.

Store all your equipment in a cool, dry place, and never put it away while damp or wet. Regularly clean off dirt with a plastic bristled brush and/or a damp cloth. If the harness gets exceptionally dirty, wash it with water and a mild soap. Make sure you first remove the entire sub-components for example, rescue parachute etc. Allow the harness to dry naturally in a well ventilated area away from direct sunlight. If your rescue parachute ever gets wet (e.g. in a water landing) you must separate it from the harness, dry it and repack it before putting it back in its separate outer container.

After a hard landing you must check your harness for damage, pay close attention to the rescue container and verify all of the attachments are secure.

### **Inspection checklist**

In addition to regular pre-flight checks, the Yeti should be inspected thoroughly on every rescue repack of 150 days. Additional inspections should be performed after any crash, bad landing or take off, or if there are any signs of damage or undue wear. Always seek professional advice whenever in doubt.

The following checks should be carried out

Check all webbing, straps and buckles for wear and damage, especially the areas that are not easily seen, such as the inside of the carabiner hook-in points.

All sewing must be intact and any abnormalities attended to immediately to avoid exacerbation of the problem.

Special attention should be paid to the rescue installation, particularly the elastic and Velcro parts.

The main carabiners must be replaced at least every 5 years or after 500 hours, whatever comes first. Impacts may create undetectable cracks that could result in structural failure under continuous load.

### **Repairs**

The manufacturer or an approved specialist should carry out any repair that involves critical parts of the harness. This will ensure that the correct materials and repair techniques are used.

### **GIN quality and service**

We take pride in the quality of our products and are committed to putting right any problems affecting the safety or function of your equipment and which are attributable to manufacturing faults. Your GIN dealer is your first point of contact if you have any problems with your equipment. If you are unable to contact your dealer or GIN importer, contact Gin Gliders directly via our website.

### **Care of the environment**

We are privileged to fly in areas of outstanding natural beauty. Respect and preserve nature by minimizing your impact on the environment. When visiting an area, contact the local club for details of environmentally sensitive areas and local restrictions.

When your paraglider eventually reaches the end of its useful life, dispose of it with consideration and follow any local regulations.

# Final words...

Most of us today live in a dependent society where we are regulated and protected. There are few opportunities for individuals to develop the self-responsibility that is the foundation of safety in extreme sports such as paragliding.

Most accidents are caused by getting into situations that are too demanding for your level of experience. This happens if you lack fundamental understanding, are incapable of assessing the risk or simply do not pay sufficient attention to your surroundings or your own state of mind.

To stay safe, the best you can do is to increase your understanding, skill and experience at a rate you can manage safely. There is no substitute for self-responsibility and good judgement.

In the end, paragliding offers a unique opportunity to learn to take control of your own destiny. Memento mori, carpe diem!

Fly safely, and...E N J O Y!  
GIN team

# Technical data

## Harness fabric

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Carabiner Distance	27-42 cm
Height of main attachment points	43 cm

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## Yeti Xtrem Size

One Size

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Weight (kg)	500g
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## Yeti Size

One Size

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Weight (kg)	600g
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## Yeti Convertible Size

One Size

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Weight (kg)	1400g
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## Certification

The Yeti has EN certification, max load 100kg

Yeti & Yeti Convertible EN/LTF: PH071.2013, GX071.2013

## Parachute container

Optional front container

## Back protection

Optional airbag

# Materials

## Webbing

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Polyester KEVLAR 12mm, Dyneema 25mm

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## Buckles

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3mm Slide buckle / 3mm loop

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## Thread

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P/F 210 D/9 Bonded P/F 210 D/4 & 210 D/6 Bonded

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## Fabric

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ROBIC PING DOBBY PU 58/60"

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# Harness diagram





[www.gingliders.com](http://www.gingliders.com)

GIN

*Dream. Touch. Believe.*