



G I N

Yeti Tandem Manual – in addition to the Beetle Manual



Please read this manual prior to your first flight with the Yeti Tandem.

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Thank you for buying the Yeti Tandem and flying with Gin Gliders

We hope that you will enjoy climbing and flying with this lightweight equipment.

The Yeti Tandem is the lightweight version of the Beetle 38: it is our ultra-light mountain tandem glider.

This user information is provided in addition to the Beetle manual, which must also be read carefully before flying the Yeti Tandem. The Yeti Tandem has very similar flying characteristics to the Beetle 38. GIN Gliders have achieved great savings in the weight of the YETI TANDEM in comparison with the BEETLE 38. All materials; the cloth, lines, reinforcements, risers and the tandem bridles have been optimized to produce a tandem glider that is as light as possible without compromising it's safety. The performance, take off characteristics and handling have all been improved. Drag and weight have also been reduced by using thinner and lighter, yet very strong line materials for the middle lines and upper cascades.

Warning

This glider, its light bag (and light harness, delivered as an option) is made from special materials in order to reduce the weight of the glider.

These special light materials (fabric, lines, risers, webbing etc) are more susceptible to ageing than regular materials, even though their strength is more than sufficient. The Yeti Tandem has passed the same 8G load test as all regular gliders.

For this reason, we ask that you:

- have your Yeti Tandem fully inspected by an authorized GIN agent every year or after each 100 hours of flight, whichever is the sooner.
- do not practice aerobatics, towing, paramotoring, or extreme manoeuvres to lose altitude, such as very deep spirals. For big ears, please practice them with caution. Only use "altitude-losing manoeuvres" when absolutely necessary. They will cause the material of your Yeti Tandem to age more rapidly.
- take special care of this wing not only during it's use, but also in it's packing and storage. Be careful during ground handling at the take-off site, do not pack it too tightly when you are not climbing with it, and let it dry in the shade after each flight before final packing (the material of Yeti Tandem hates moisture and humidity).

To facilitate take off from steep slopes or snow, attachment points have been added to the top surface to fix the glider to the ground. You can find these attachment points, made from 10mm webbing, on the top surface along the leading edge.

Yeti Tandem risers and tandem bridle

The Yeti Tandem is equipped with a pair of original GIN lightweight tandem bridles (soft spreader bridle), which are also load tested to 8G. The suspension loop on the pilot's side is shorter and has a red cover. The suspension loop on the passenger's side is longer and has a blue cover. The main loop in the centre is spliced and permanently connected with the loop at the lower end of the risers.

Warning: Only connect the bridles of your tandem rescue parachute to the main, red, centre loops of the tandem bridle on each side. Never connect it to the lower end of the tandem risers! The rescue bridles can be routed from the pilot's harness along the tandem bridles to the centre loop of the tandem bridle.

For this connection we recommend only to use shackles or karabiners with a minimum strength of 2.4 kN.



Technical Specifications

		Yeti Tandem 38
FLAT	AREA	37.32m ²
	SPAN	13.79m
	A.R	5.09
PROJECTED	AREA	33.62m ²
	SPAN	11.41m
	A.R	3.87
CHORD	ROOT	3.32m
	TIP	0.67m
TOTAL HEIGHT		8.13m
CELL NUMBER		48
GLIDER WEIGHT (kg)		7.2kg
WEIGHT IN FLIGHT (kg)		120 - 180
DHV		1-2

Description

FABRIC OF CANOPY

SUPPLIER	NAME	N.C.V INDUSTRIES		
	ADDRESS	L'Isle d'Abeau, Parc de Chesnes, 75, rue du Ruisseau 38070 SAINT QUENTIN FALLAVIER Cedex / France		
TYPE OF FINISH		SIDE COATED(POLYURETHANE)		
TYPE OF YARN		PA 6.6 HIGH TENACITY – 33 dtex		
FABRIC CODE		9017 E68A (TOP, BOTTOM)	9017 E38A (DIAGONAL)	9017 E29A (PROFILE)
PATTERN		Rip Stop	Rip Stop	Rip Stop
Coated fabric's weight (g/sqm)		36+/-1.5	40+/-2	40+/-2
Tear Strength	2 mini	4.2 mini	1.5 mini	1.3 mini
	2mini	2.3 mini	1.5 mini	0.7 mini
Elongation on bias 3 lbs (%)		5+/-2	8 maxi	1 maxi
Elongation on bias 5 lbs (%)		11+/-4	17 maxi	2 maxi
Elongation on bias 10 lbs (%)		24+/-4	28 maxi	10 maxi
Break Strength	38 mini	47 mini	38 mini	38 mini
	33 mini	38mini	33mini	33mini
AIR Permeability p=2000Pa (l/SQMxMN)		20 maxi	40 maxi	100 maxi

SUSPENSION LINE

MATERIAL		Dyneemaline			ARAMID	
SUPPLIER	NAME	LIROS Flightsporttechnique			TEIJIN LIMITED, JAPAN	
	ADDRESS	Rosenberger Tauwerk GmbH Poststrasse 11, 95192 Lichtenberg GERMANY			1-1, UCHISAIWAI-CHO 2-CHOME, CHIYODA-KU, TOKYO 100, JAPAN	
Line type designation		DSL 70	PPSL 120	PPSL 200	GIN KEV2.0	GIN KEV2.3
Diameter(mm)		0.95	1.15	1.42	2.0	2.3
Strength min (daN)		70	120	200		
Strength eff. (daN)		92	159	241	240kg	400kg
Elongation at strength eff. (%)		2.8		1.59		
Elongation / Line creep at 10 daN (%)		0.36/0.04	0.20/0.036	0.24/0.128		
Elongation / Line creep at 30 daN (%)		1.0/0.25	0.58/0.13	0.55/0.26		
Weight (g/m)		0.67	1.00	1.60		

REINFORCEMENT

FABRIC CODE		W420 SCRIM	
SUPPLIER	NAME	PORCHER NCV Industries	
	ADDRESS	L'Isle d'Abeau, Parc de Chesnes, 75, rue du Ruisseau 38070 SAINT OUINTIN FALLAVIER Cedex / France	
MATERIAL		POLYESTER SCRIM	
WEIGHT(GR/M ²)		180	
BREAKING STRENGTH (KG/5Cm)	WARP	137	
	WEFT	118	
TEAR STRENGTH (KG/5Cm)	WARP	4.2	
	WEFT	4.1	
WEAVE DESIGN		RIPSTOP	

RISER

MATERIAL		Coated Dyneema leechline
SUPPLIER	NAME	BAINBRIDGE International Ltd.
	ADDRESS	8 Flanders Park, Hedge End, Southampton, Hants SO30 2FZ England
WEIGHT(GR/M)		8.8
BREAKING STRENGTH		1200 DAN
WIDTH(mm)		4mm

SPREADER BAR

MATERIAL		Coated Dyneema leechline
SUPPLIER	NAME	BAINBRIDGE International Ltd.
	ADDRESS	8 Flanders Park, Hedge End, Southampton, Hants SO30 2FZ England
WEIGHT(GR/M)		13.2
BREAKING STRENGTH		2700 DAN
WIDTH(mm)		8mm

MAILLONS

MATERIAL		MAILLON NORMAL T2 STAINLESS STEEL
SUPPLIER	NAME	PEGUET
	ADDRESS	BP 205 74105 ANNEMASSE CEDEX FRANCE
WEIGHT(GR)		5.3
BREAKING STRENGTH		800 kg
DIAMETER(mm)		3.0

BRIDLE (ATTACHMENT LINES)

MATERIAL		NYLON
SUPPLIER	NAME	KOLON INDUSTRIAL CO.
	ADDRESS	45 MU KYO DONG JUNG – GU, SEOUL, KOREA
WEIGHT(GR/M)		7.2
BREAKING STRENGTH (kg)		110
WIDTH(mm)		13

THREAD

MATERIAL		HIGH TENACITY POLYESTER YARN
SUPPLIER	NAME	AMMANN & SÖHNE GMBH & CO.
	ADDRESS	Postfach 9 Hauptstrasse 1 D-74357 Bönningheim Germany
DENIER		150D/3
BREAKING STRENGTH (kg)		2.9
WEIGHT(GR/M)		0.05

"Designing paragliders is a personal journey of challenge and discovery, an ongoing search for perfection."

- Gin Seok Song

Every effort has been made to ensure that the information in this manual is correct, but please remember that it has been produced for guidance only. It should not be used as a "how to fly" manual. This owner's manual is subject to changes without prior notice. Please check www.gingliders.com for the latest information regarding the Yeti Tandem and other GIN products.