User Manual

Category:	Kites
Model:	Helium, Oxigen, Butane, Nitro
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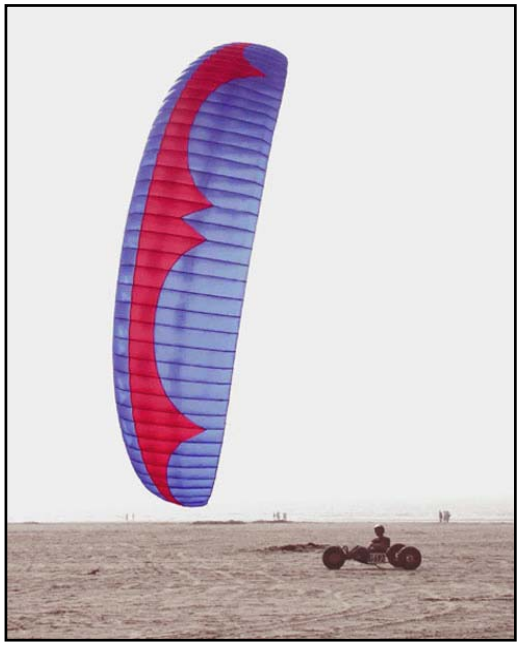

Concept, artwork and text: Ernst Strobl, Bill Williamson

A warm welcome from U-Turn!

Thank you for your decision to handpick a U-Turn traction kite.

Please read this operating manual carefully, understand the information given and follow the instructions before you launch your new U-Turn kite.

Whether beginner or expert, choosing a U-Turn kite brings you the benefit of the highest quality and performance. Your new kite is at the forefront of its class and will prove to be a reliable partner.

This manual will provide you with more than just safety information and help getting started. There is detailed information on all U-Turn traction kites covering construction, components, function and maintenance to get the best from your new kite.

If you ever have any questions please contact your authorised dealer, the distributor for your country or U-Turn directly.

We recommend that you start by reading the comprehensive section “Kite Set-Up” and then refer to those sections relevant to your new kite.

U-Turn wishes you lots of wind powered fun.

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ATTENTION!

Never fly near high voltage power lines, railway lines, roads, airports, and other people or during thunderstorms. To do so would be grossly negligent as you could endanger the lives and personal safety of others as well as yourself.

Keep a minimum distance of 500 metres from any of the objects mentioned above and 5 kilometres from airports.

Never use lines longer than 60 metres.

Traction kites can be dangerous depending on the size of kite and the strength of wind. Please pay attention to the wind table for your kite and make sure that your skills match the prevailing conditions.

Do not fly your new kite for the first few flights at the top of the wind range shown in the wind table. Please take time to get to know the equipment.

Only use a harness after you have developed a real command of your kite and only use a harness that allows you to quickly disconnect in case of danger. Our authorised dealers will be happy to provide safety advice.

Strong shoes or boots are highly recommended, as are helmet, gloves, elbow and kneepads.

Before using your kite to pull your buggy or board you must have a good command of the kite.

Never underestimate the power of your kite. The classification (Beginner, Intermediate, Expert) refers to the manageability and power delivery in certain situations. Even a beginner kite can develop several hundred kilos of pull depending on kite size and wind strength.

The manufacturer disclaims liability for any damage caused by inappropriate use of the kite.

Kite Set-Up

The first flight

The first flight with a new kite always is a special and thrilling moment. Perhaps it is your first flight of all. Probably you had a briefing with your authorised dealer. However, we ask you to carefully read the following, even if you can't wait to get started.

Wind and flight area

Please have a look at the wind table on page 14 and measure the current wind strength. Now have a look at the wind table of your new kite and notice the wind speed and the size of your kite. The wind strength should be in the lower range of that shown for your weight. If the wind is too strong: Just sit down and read the manual again.

Before you start the set up, please have a good look around and make sure there is enough space for an enjoyable flight. To the left, the right, in front of you: No high voltage transmission line? No roads, no ditches, no airports far and wide? O.K. – let's get started.

Set up, 1st step (unwind the lines)

Find the spot you want to stand when launching the kite. Now enjoy a short walk forwards with the wind at your back. Don't forget your kite, ground stake, handles and lines. After 20 metres you can put down your kite and drive the stake into the ground.

Now take the handles and unwind the lines. To do this hang the loops at the ends of the lines over the ground stake, hold the handles horizontally in your hands and rotate them along their axis whilst walking backwards to your starting point.

To avoid twists you must do it this way the first time you unwind the lines. Later in the "Packing and Unpacking" section we will show you a quicker way to wind and unwind the lines on the handles.

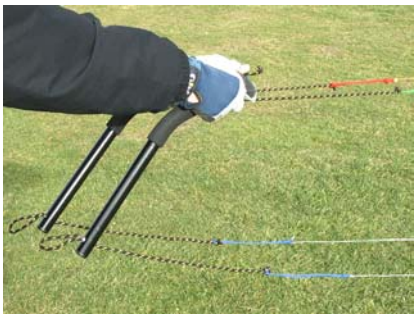
Now it is time to fetch the ground stake and to anchor the handles by pushing the stake into the ground through the loops at the ends of the handles.

What's next? That's right, walk back to your kite, untwisting the lines as you go. When you reach the ends of the lines, lay them out evenly, main lines (orange) on the outside, brake lines (white) to the inside.

The handles, the ends of the lines and the bridle attachment points on the kite are colour coded.

Red or Pink = Left
Green or Blue = Right

Lay the lines from the right handle on the right and the lines from the left handle on the left.



Set up 2nd step (attach the kite)

Take the kite out of the stuff sack and lay it out on the ground. Be careful, if the wind is strong enough it may blow the kite away. If you are on a beach, you can put some sand on the trailing edge to hold it down.

First of all, fix both brake lines (white) at the knot near the end of the brake bridle (the longer, thinner line that passes through the ring) so that the kite can't take off on it's own. The attachment is made by looping the end of the line over itself to form a "Larks head" knot. If you are not sure how to do this have a look at how the lines are attached to the leaders on the handles.

The next step is to connect the flying lines (orange) to the main bridle (the shorter, thicker line with the ring attached). Be careful not to cross any lines or to twist them.

Now step behind your kite, pulling it back carefully by the leading edge until all lines are under tension and check whether anything is twisted. If all lines are OK, you can now walk for the last time back to your handles.

Set up 3rd step (pre-launch check)

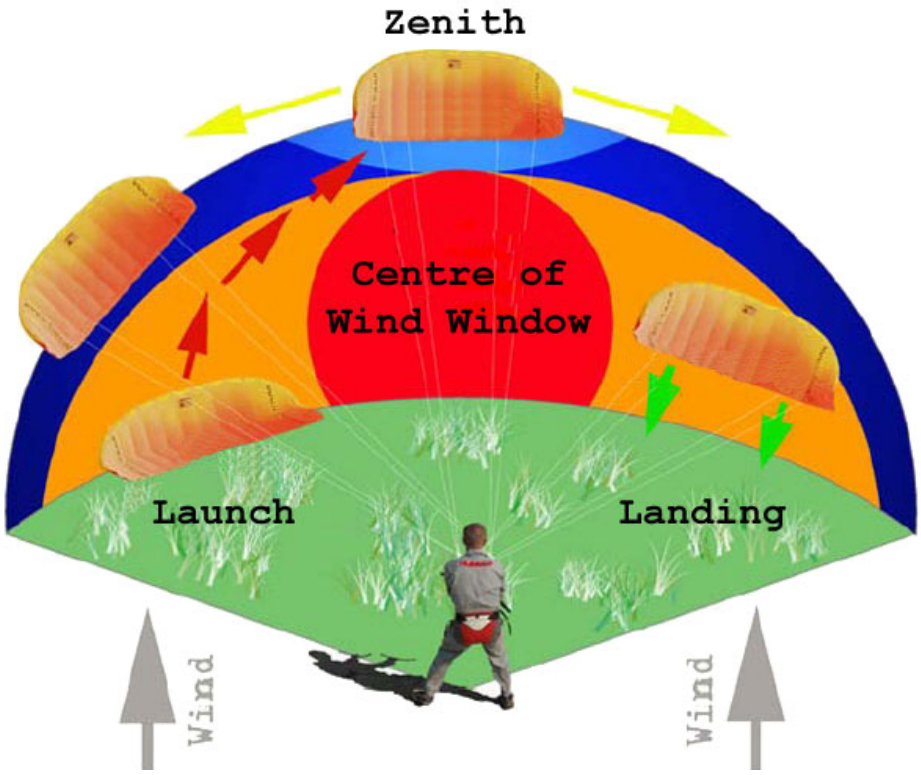
Now you take your handles. **Keep the brakes applied so that the kite stays on the ground!** Please make sure that the right hand lines run to the right side of the kite and the left hand lines to the left. If everything is OK, anchor the handles with the ground stake and follow the instructions in the next section, "Launching, Steering and Landing".

Launching, Steering and Landing

Launching

The range that your kite flies in is called the wind window. On the windows left and right edge and at the zenith, the kites' traction power is lowest. The closer the kite flies to the centre of the window, the more traction power appears. For this reason, you should not launch your kite in the centre, but on the right or left side of the wind window.

Hold the handles near the top in your hands (one in each hand), so that the brake lines can hang free. With a firm tug, equal at both handles, the kite will rise. Let it rise up to the zenith. This is the starting point for anything to come.

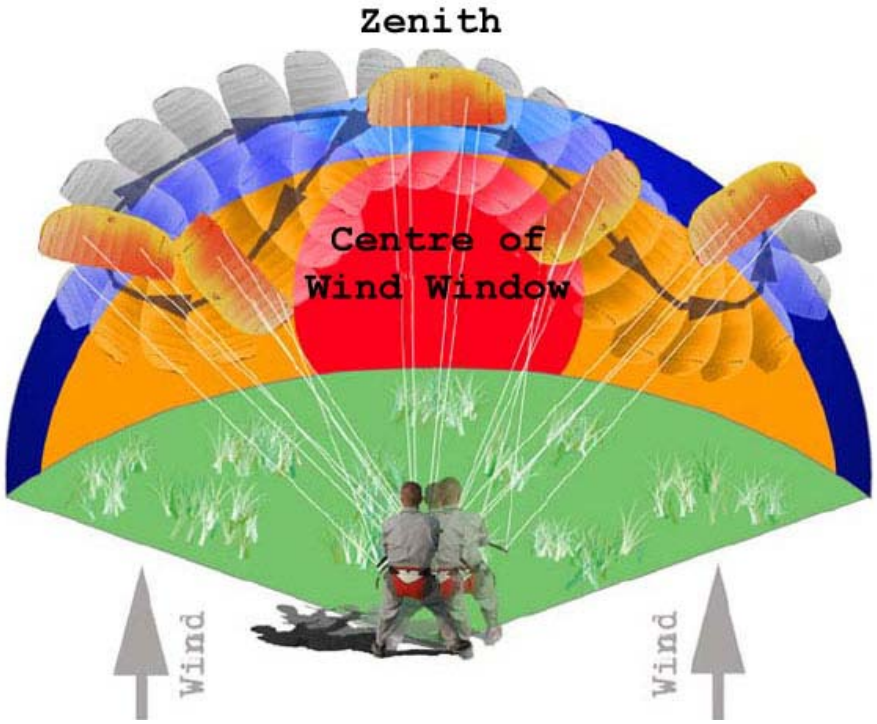


Steering

By pulling one handle, you can change the flight direction of your kite. Pull on the left handle and the kite will fly to the left, pull on the right handle and the kite will fly to the right. You can boost the steering effect by tipping the lower end of the handles (where the brake lines are attached) towards you. When applying some brake like this, the kite will be turned quicker. Please practise this until you master this manoeuvre.

Landing

To touch down, fly your kite into the left or right upper area of the wind window and then tip the bottom of both handles equally towards you. The kite will fly backwards and will touch down in a controlled manner. If the kite breaks out to one side, just pull the handle on the opposite side towards you.



Packing and unpacking

Packing

After having enjoyed your first flight with your U-Turn kite and having performed a perfect touchdown, now is the time to pack up.

There is no need to untie all the lines. Go to the kite, bring together all lines at the bridle connections (without twisting them) and fix them to the Velcro tab on the trailing edge. This keeps your bridle lines in good condition and free from tangles so you can start quickly on your next flying day.

Lay the bridle on the kites' lower side and fold the kite carefully.

After putting the kite in the stuff sack, walk back to your handles and wind the lines around them.

IMPORTANT: Remember the direction you are coiling the lines, as you have to uncoil them in the opposite direction or they will be badly twisted. For example: Hold the handles in the left hand and hold the lines together in the right. Rotate clockwise with the right hand in order to coil the lines round the handles. To uncoil, hold the handles in the left hand again and unwind anti-clockwise with the right hand.

When you reach the end of the lines at the kite, wedge them between the handles to prevent unravelling. Then place the lines and handles into the stuff sack along with the kite.

Unpacking

The next time you go to out with your ready to fly kite, do the following:

- Place your kite bag where the kite will be launched.
- Take out the handles and uncoil the lines, walking backwards against the wind.
- **IMPORTANT:** Bear in mind the direction you chose while coiling the lines and unwind the opposite way.
- After uncoiling the lines completely, anchor the handles with the ground stake.
- Now take the kite out of the bag, disconnect the bridles from the Velcro tab, lay it out and stand behind the kite.
- Hold carefully onto the top of the kite (don't pull at the cell openings) and pull it smoothly backwards, until the lines are tensioned.
- Now the kite will stand half inflated on the ground. You can then pick up your handles, check that the lines are not twisted and launch the kite.

Maintenance

Proper Care

U-Turn products are subject to meticulous quality control, materials as well as workmanship. However, it's mainly up to you to determine the durability of the equipment. Proper care and good maintenance will help you to have fun with the kite for a very long time. Coiling the lines and folding the kite carefully, always storing it clean and dry does a lot for the lifetime of the kite.

Your U-turn kite is equipped with "Dirt-Outs", openings on the trailing edge at the wingtips that allow sand and other debris to be removed from the kite.

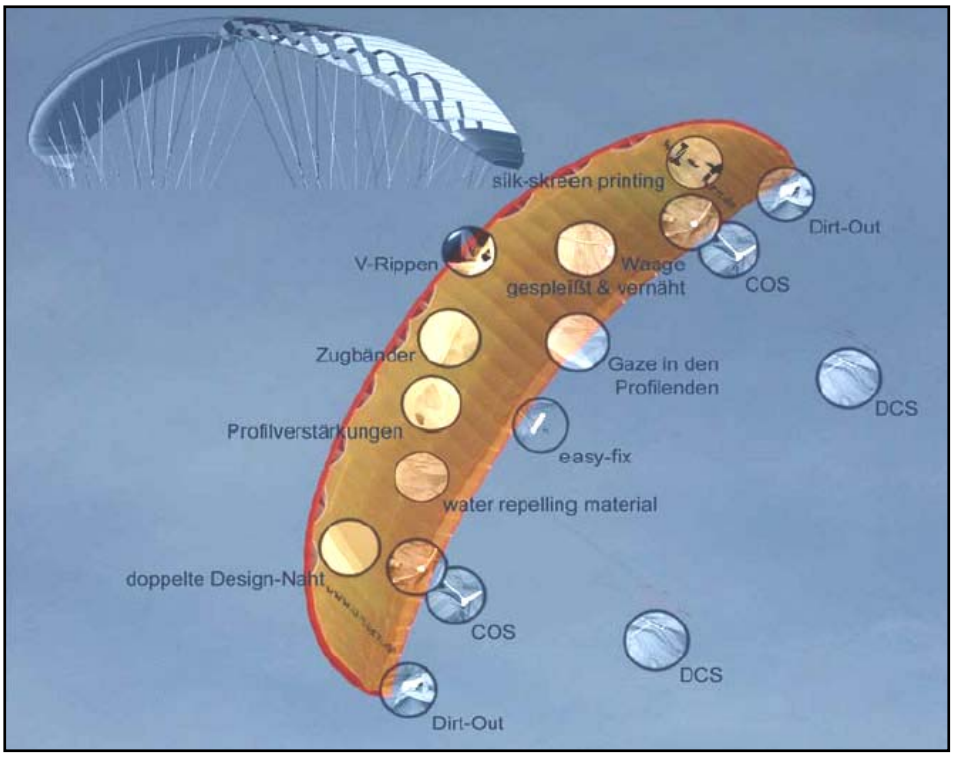
General Guidelines

- Hang up wet kites to dry, cell openings down. Never leave wet kites in the bag.
- Open dirt-outs before drying
- Always remove sand before packing the kite (inside and outside). Dry sand may be removed by flying the kite with the dirt-outs open.
- Don't expose your kite to the sun any longer than necessary
- Fold your kite loosely (no sharp bends or tight folds)
- To eliminate salt water, rinse the kite with clean fresh water inside and out. (Immersion in the bath is OK, but don't soak or put it in the washing machine)
- Don't clean the kite with too much force; never use solvents or any cleaning products.

General wind table

Beaufort	Knots	Miles/h	Km/h	Description
0	<1	<1	<1	Calm
1	1-3	1-4	1-5	Light Air
2	4-6	5-7	6-11	Light Breeze
3	7-10	8-11	12-19	Gentle Breeze
4	11-16	12-18	20-29	Moderate Breeze
5	17-21	19-24	30-39	Fresh Breeze
6	22-27	25-31	40-50	Strong Breeze
7	28-33	32-38	51-61	Near Gale
8	34-40	39-46	62-74	Gale
9	41-47	47-54	75-87	Severe Gale
10	48-55	55-63	88-102	Storm
11	56-63	64-73	103-118	Violent Storm
12	64+	74+	119+	Hurricane

U-Turn Kites



U-Turn Helium

For those who would not only “like” but really “need”…

You are new to kiting, looking for the right kite?

Or you are more experienced but want a kite that is powerful, yet forgiving and supremely stable?

Then the Helium is perfect for you.

The Helium will accompany you until you are an expert. Show the Helium that you know your stuff, because the Helium will do the same...

Don’t settle for second best!

Materials

- Canopy - 44g/m2 Ripstop Nylon
- Bridle lines - Silverguard XT

Helium Suitability	Beginner	Intermediate	Expert
Power Kiting:	+++	++	+
Buggy	+++	++	+
ATB	+++	++	+
Snow	+++	++	+
+++ perfect	**++ super**	**+ OK**	**- not suitable**

Helium Wind Range																					
Wind	1.8			2.2			2.8			3.5			4.4			5.5			6.8			Wind
Speed	Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Speed
Beaufort	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	Beaufort
9.0 - 9.5	■	■	■			■																9.0 - 9.5
8.5 - 9.0	■	■	■		■	■			■													8.5 - 9.0
8.0 - 8.5	■	■	■	■	■	■		■	■													8.0 - 8.5
7.5 - 8.0	■	■	■	■	■	■	■	■	■			■										7.5 - 8.0
7.0 - 7.5	■	■		■	■	■	■	■	■		■	■										7.0 - 7.5
6.5 - 7.0	■			■	■	■	■	■	■	■	■	■			■							6.5 - 7.0
6.0 - 6.5				■	■		■	■	■	■	■	■		■	■							6.0 - 6.5
5.5 - 6.0				■			■	■	■	■	■	■	■	■	■			■				5.5 - 6.0
5.0 - 5.5							■	■		■	■	■	■	■	■		■	■				5.0 - 5.5
4.5 - 5.0							■			■	■	■	■	■	■	■	■	■			■	4.5 - 5.0
4.0 - 4.5										■	■		■	■	■	■	■	■		■	■	4.0 - 4.5
3.5 - 4.0										■			■	■	■	■	■	■	■	■	■	3.5 - 4.0
3.0 - 3.5													■	■		■	■	■	■	■	■	3.0 - 3.5
2.5 - 3.0													■			■	■	■	■	■	■	2.5 - 3.0
2.0 - 2.5																■	■		■	■	■	2.0 - 2.5
1.5 - 2.0																■			■	■	■	1.5 - 2.0
1.0 - 1.5																			■	■	■	1.0 - 1.5
0.5 - 1.0																			■	■	■	0.5 - 1.0

Helium Technical Data										
Kite	Area		Span		Chord		Aspect Ratio		Cells	Bridle
Size	Flat	Projected	Flat	Projected	Middle	Tip	Flat	Projected		Length
1.8	1.80m²	1.56m²	2.37m	1.92m	0.90m	0.32m	3.13	2.37	17	1.4m
2.2	2.25m²	1.95m²	2.65m	2.15m	1.00m	0.36m	3.13	2.37	17	1.5m
2.8	2.82m²	2.45m²	2.97m	2.41m	1.12m	0.40m	3.13	2.37	17	1.7m
3.5	3.52m²	3.06m²	3.32m	2.69m	1.25m	0.45m	3.13	2.37	17	1.9m
4.4	4.41m²	3.83m²	3.71m	3.01m	1.40m	0.50m	3.13	2.37	17	2.2m
5.5	5.50m²	4.78m²	4.15m	3.37m	1.57m	0.56m	3.13	2.37	17	2.4m
6.8	6.85m²	5.95m²	4.63m	3.76m	1.75m	0.63m	3.13	2.37	17	2.7m

U-Turn Oxigen

The leader of the intermediates

The U-Turn Oxigen is all action, whatever you want the power for - buggy, board or snow - you will need this kite like the air you breathe.

Fast and powerful, the Oxigen is highly resistant to luffing and very forgiving of any mistakes. When a gust appears, the Oxigen just pulls you forwards. When you want to fly actively the kite will satisfy you with its outstanding agility.

The standard Oxigen can be recognised by it's white under surface.

The Oxigen Pro has the same lightweight, water repellant material and Kevlar bridle as the Nitro. The under surface of the Pro is the same colour as the top.

Warning! This kite is addictive!

Materials (standard)

- Canopy - 44g/m2 Ripstop Nylon
- Bridle lines - Dyneema

Materials (pro)

- Canopy - 40g/m PA 6.6 High Tenacity, Water Repellant
- Bridle lines - Kevlar

Oxigen Suitability	Beginner	Intermediate	Expert
Power Kiting	++	+++	+ to ++
Buggy	++	+++	+ to ++
ATB	++	+++	+ to ++
Snow	++	+++	+ to ++
+++ perfect	**++ super**	**+ OK**	**- not suitable**

Oxigen Wind Range																					
Wind	2			2.5			3.2			4			5			6.2			7.8			Wind
Speed	Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Speed
Beaufort	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	Beaufort
9.0 - 9.5																						9.0 - 9.5
8.5 - 9.0			■																			8.5 - 9.0
8.0 - 8.5		■	■			■																8.0 - 8.5
7.5 - 8.0	■	■	■		■	■			■													7.5 - 8.0
7.0 - 7.5	■	■	■	■	■	■		■	■			■										7.0 - 7.5
6.5 - 7.0	■	■	■	■	■	■	■	■	■		■	■										6.5 - 7.0
6.0 - 6.5	■	■		■	■	■	■	■	■	■	■	■			■							6.0 - 6.5
5.5 - 6.0	■			■	■		■	■	■	■	■	■		■	■							5.5 - 6.0
5.0 - 5.5				■			■	■		■	■	■	■	■	■			■				5.0 - 5.5
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4.0 - 4.5										■	■		■	■	■	■	■	■			■	4.0 - 4.5
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3.0 - 3.5													■	■		■	■	■	■	■	■	3.0 - 3.5
2.5 - 3.0													■			■	■	■	■	■	■	2.5 - 3.0
2.0 - 2.5																■	■		■	■	■	2.0 - 2.5
1.5 - 2.0																■			■	■	■	1.5 - 2.0
1.0 - 1.5																			■	■		1.0 - 1.5
0.5 - 1.0																			■			0.5 - 1.0

Oxigen Technical Data									
Kite	Area		Span		Chord		Aspect Ratio		Cells	Bridle
Size	Flat	Projected	Flat	Projected	Middle	Tip	Flat	Projected		Length
2.0	2.04m²	1.82m²	2.69m	2.32m	0.87m	0.39m	3.55	2.95	21	1.6m
2.5	2.56m²	2.28m²	3.01m	2.60m	0.98m	0.38m	3.55	2.95	21	1.8m
3.2	3.20m²	2.85m²	3.37m	2.90m	1.09m	0.42m	3.55	2.95	21	2.0m
4.0	4.00m²	3.57m²	3.77m	3.25m	1.22m	0.47m	3.55	2.95	21	2.2m
5.0	5.00m²	4.46m²	4.21m	3.63m	1.36m	0.53m	3.55	2.95	21	2.5m
6.2	6.25m²	5.58m²	4.71m	4.06m	1.52m	0.59m	3.55	2.95	21	2.8m
7.8	7.76m²	6.93m²	5.25m	4.52m	1.70m	0.66m	3.55	2.95	21	3.1m

U-Turn Butane

What do you want to do today?

The ultimate 'do anything' kite for the experienced flyer, the Butane will handle anything you can throw at it.

With it's performance and buggy racing pedigree it's ideal for those who race for the fun of it, with a level of stability never been seen before in a modern race kite.

That Stability and smooth predictable lift also make the Butane a great boarding kite, on snow, the beach or on grass.

Whatever you want to do, the Butane will deliver!

Materials

- Canopy - 44g/m Aqua Ripstop
- Bridle lines - Kevlar / Dyneema

Butane Suitability	Beginner	Intermediate	Expert
Power Kiting:	-	++ to +++	+++
Buggy	-	++ to +++	+++
ATB	-	++ to +++	+++
Snow	-	++ to +++	+++
+++ perfect ++ super + OK - not suitable			

Butane Wind Range																										
Wind	2.5			3.5			4.5			5.5			6.5			7.5			9.0			11.0			13.0			Wind
Speed	Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Speed
Beaufort	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	Beaufort
9.0 - 9.5																												9.0 - 9.5
8.5 - 9.0			■																									8.5 - 9.0
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1.0 - 1.5																						■			■	■		1.0 - 1.5
0.5 - 1.0																									■			0.5 - 1.0

Butane Technical Data										
Kite	Area		Span		Chord		Aspect Ratio		Cells	Bridle
Size	Flat	Projected	Flat	Projected	Middle	Tip	Flat	Projected		Length
2.5	2.50m²	2.24m²	3.44m	2.94m	0.88m	0.20m	4.74	3.86	26	2.00m
3.5	3.50m²	3.14m²	4.07m	3.48m	1.04m	0.24m	4.74	3.86	26	2.40m
4.5	4.50m²	4.04m²	4.62m	3.95m	1.18m	0.27m	4.74	3.86	26	2.70m
5.5	5.50m²	4.97m²	5.10m	4.41m	1.30m	0.30m	4.74	3.86	26	3.00m
6.5	6.50m²	5.84m²	5.55m	4.75m	1.41m	0.33m	4.74	3.86	26	3.20m
7.5	7.50m²	6.73m²	5.96m	5.10m	1.52m	0.35m	4.74	3.86	36	3.50m
9.0	9.00m²	8.08m²	6.47m	5.59m	1.66m	0.38m	4.74	3.86	36	3.80m
11.0	11.00m²	9.88m²	7.22m	6.18m	1.84m	0.43m	4.74	3.86	36	4.20m
13.0	13.50m²	12.13m²	8.00m	6.84m	2.04m	0.47m	4.74	3.86	36	4.90m

U-Turn Nitro

You are an expert and like to push your limits?

Then face the overwhelming power of the Nitro.

When you launch it for the first time you realise that “everything so far was just playing... now the gloves are off”

The U-Turn Nitro pushes you to the limit, pilot faults are punished immediately, but when you have the skill and experience, the Nitro shows its true face. It is a powerhouse with impressive agility, built for speed.

The most technically advanced kite in the sky, simply an aerodynamic masterpiece.

Materials

- Canopy - 40g/m PA 6.6 High Tenacity, Water Repellant
- Bridle lines - Kevlar

Nitro Suitability	Beginner	Intermediate	Expert
Power Kiting:	-	+ to ++	+++
Buggy	-	+ to ++	+++
ATB	-	+ to ++	+++
Snow	-	+ to ++	+++
+++ perfect ++ super + OK - not suitable			

Nitro Wind Range																															
Wind	1.6			2			2.5			3.1			3.9			4.9			6.1			7.7			9.7			12.2			15.4			Wind
Speed	Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Weight kg			Speed
Beaufort	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	60	75	90	Beaufort
9.0 - 9.5			■																															9.0 - 9.5
8.5 - 9.0		■	■			■																												8.5 - 9.0
8.0 - 8.5	■	■	■		■	■			■																									8.0 - 8.5
7.5 - 8.0	■	■	■	■	■	■		■	■			■																						7.5 - 8.0
7.0 - 7.5	■	■	■	■	■	■	■	■	■		■	■																						7.0 - 7.5
6.5 - 7.0	■	■		■	■	■	■	■	■	■	■	■			■																			6.5 - 7.0
6.0 - 6.5	■			■	■		■	■	■	■	■	■		■	■																			6.0 - 6.5
5.5 - 6.0				■			■	■		■	■	■	■	■	■			■																5.5 - 6.0
5.0 - 5.5							■			■	■		■	■	■		■	■																5.0 - 5.5
4.5 - 5.0										■			■	■	■	■	■	■			■													4.5 - 5.0
4.0 - 4.5													■	■		■	■	■		■	■													4.0 - 4.5
3.5 - 4.0													■			■	■	■	■	■	■			■										3.5 - 4.0
3.0 - 3.5																■	■		■	■	■		■	■			■							3.0 - 3.5
2.5 - 3.0																■			■	■	■	■	■	■						■				2.5 - 3.0
2.0 - 2.5																			■	■		■	■	■	■	■	■		■	■			■	2.0 - 2.5
1.5 - 2.0																			■			■	■	■	■	■	■	■	■	■		■	■	1.5 - 2.0
1.0 - 1.5																						■	■		■	■	■	■	■	■	■	■	■	1.0 - 1.5
0.5 - 1.0																						■			■	■		■	■	■	■	■	■	0.5 - 1.0

Nitro Technical Data										
Kite	Area		Span		Chord		Aspect Ratio		Cells	Bridle
Size	Flat	Projected	Flat	Projected	Middle	Tip	Flat	Projected		Length
1.6	1.60m²	1.43m²	2.84m	2.42m	0.68m	0.29m	5.04	4.08	26	1.8m
2.0	2.00m²	1.79m²	3.17m	2.70m	0.76m	0.32m	5.04	4.08	26	2.0m
2.5	2.52m²	2.26m²	3.57m	3.04m	0.86m	0.36m	5.04	4.08	26	2.2m
3.1	3.12m²	2.82m²	4.08m	3.50m	0.93m	0.27m	5.37	4.41	36	2.5m
3.9	3.90m²	3.52m²	4.56m	3.92m	1.04m	0.30m	5.37	4.41	36	2.8m
4.9	4.90m²	4.42m²	5.13m	4.39m	1.16m	0.34m	5.37	4.41	36	3.1m
6.1	6.10m²	5.49m²	5.83m	5.02m	1.25m	0.35m	5.57	4.57	42	3.6m
7.7	7.70m²	6.94m²	6.55m	5.64m	1.41m	0.39m	5.57	4.57	42	4.0m
9.7	9.70m²	8.74m²	7.35m	6.33m	1.58m	0.44m	5.57	4.57	42	4.5m
12.2	12.20m²	10.97m²	8.46m	7.23m	1.73m	0.48m	5.86	4.77	42	5.1m
15.4	15.40m²	13.84m²	9.75m	8.13m	1.94m	0.54m	5.86	4.77	42	5.8m

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