



VENUS II

PILOT'S MANUAL

Thank you for taking the time to read this booklet.



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1. INTRODUCTION

When setting out to design our cross-country glider we had a clear target: we wanted to create the best paraglider possible for experienced and cross-country pilots. Venus II is designed for pilots who want top performance and sensitive handling, but who rightly demand security.

With an internal structure based on the successful Mercury competition glider the Venus II includes our unique differential speed system. This means pilots can achieve a good sink-rate at half or one-third speed bar, and maintain good stability at maximum speed: in short, it gives the glider excellent usable speed.

The Venus II is a performance glider (EN-D) and is meant for qualified pilots who hold a full paragliding pilot licence. It is designed as an ideal cross-country and competition glider, suitable for very experienced pilots who fly regularly and who will enjoy a performance glider with good safety characteristics.

This manual provides information about the glider, which will help you to fly safely and keep your wing in good condition. If after reading this manual you have any further questions, please don't hesitate to contact us or any authorised Axis dealer.

Thank you for choosing the **Venus II** from **Axis**.

*www.axispara.cz
www.axispara.co.uk*



2. PRE FLIGHT

Pre-delivery inspection

The Venus II is delivered with a rucksack, inner bag, compression strap and this manual. The dealer or your instructor should have made a test inflation and test flight before delivery to you.

Brake-line length

When you receive your new Venus II, the brake-line length is set the same as the Axis test glider. This length has been finely tuned by Axis test pilots and it should not be necessary to adjust it.

If you feel it is necessary to adjust the brake-line length to suit physical build, height of harness hang points, or style of flying we recommend you test-fly the glider after every 20mm of adjustment.

There should always be free brake travel when the glider is flown hands-up. This means when you look at your brake lines in flight with your hands up, there should be a slight bow, or arc, to the line – the brake lines should not be tight. This is to prevent the brakes being applied when the speed-system is used.

Brake lines that are too short:

- May lead to fatigue from flying with your hands in an unnatural position
- May impede recovery from certain manoeuvres
- Will certainly reduce your glider's speed range.

Brake lines that are too long will:

- Reduce pilot control during launch
- Reduce control in extreme flying situations
- Make it difficult to execute a good flare when landing.

Each break line should be tied securely to its control handle with a suitable knot.

Other adjustments or changes to your Venus II lead to a loss of guarantee, airworthiness and validity of the certification and may endanger both yourself and others.

If you have any suggestions on improvements let us know and our test pilots will try out your ideas in a controlled situation.



Weight range

The Venus II must only be flown within the certified weight range as shown in this manual. The weight range quoted is the total in-flight weight which includes pilot, glider, harness, clothing and accessories.

Pre-flight safety

Before flying this glider you should:

- Have the appropriate practical and theoretical training
- Have the required licence and insurance
- Be fit to fly and unaffected by stress or drugs
- Wear a suitable helmet
- Use a suitable harness and emergency parachute
- Make a thorough pre-flight check.



3. FLYING THE VENUS II

We recommend you practice inflating your glider before flying it, and make your first flights in gentle conditions on a familiar flying site.

A. Normal flight

Pre-flight check

A proper pre-flight check is essential for safe flying.

Before launch lay the glider out into a slight arc and check that:

- Cell openings are free of obstructions
- Lines are free of tangles or knots
- No twigs, grass or other objects are tangled in the lines
- Risers are correctly connected
- Brake lines run freely through the pulleys
- Knots on brake handles are secure
- Carabiners on risers are closed and/or tightened

Launch

The key to successful launching is to practice ground-handling on flat ground as often as possible. The Venus II inflates easily and steadily using forward or reverse launch techniques. There is no tendency to overshoot the pilot. To forward (alpine) launch in light or nil wind there is no need to pull the risers hard. Allow the glider to stabilise overhead and run positively forward checking the canopy is fully inflated and clear of any knots or tangles. Reverse launching is recommended in strong wind.

Flight

The best glide speed in calm air is achieved in the hands-up position. The best sink rate is produced with both brake lines drawn down equally to about 20% of their range.

Turning

The handling characteristics of the Venus II require no special or non-standard procedures. Brake pressure is progressive. This gives a responsive and sporty feel to the handling. In an emergency (e.g. a broken brake line) the Venus II can be manoeuvred by steering carefully with the rear risers or by weight shift.

Using the speed system

The speed system on the Venus II comes supplied with Brummel hooks ready to attach to your own speedbar of choice. When you have done this, check the speed system runs smoothly by hanging in your harness before flying.



In particular check that the speed system won't be engaged when in normal flight. Unnecessary knots and loops in a speed system are not recommended.

Maximum useable speed is one of the strong points of Axis paragliders and the Venus II is no exception. However, in spite of this exceptional stability, any collapse at full speed will be more severe than the same event experienced at trim speed. Always keep both hands on the controls when flying fast and be ready to release the speed system immediately at the first sign of a collapse. Use the speed system carefully when flying close to the ground or the terrain.

Landing

On your first flights you may be surprised at how well the Venus II glides. Take account of this when making your landing approach and give yourself the opportunity for S-turns or a longer approach than you might be used to.

For a normal, into-wind landing evenly pull the brakes all the way down when you are about one metre from the ground. Under nil-wind conditions, or if you are forced to make an emergency downwind landing, a wrap on each brake will allow you to make a stronger flare.

B. Losing altitude

Most pilots will, at some time, want to lose height. This may be because of a change in the weather, you are at cloudbase and don't want to go any higher, or simply because you want to finish your flight quickly.

Ideally, the best way to lose height is to find an area of sink and stay in it. This way you can fly normally to the ground. However, if there is no sink, or if you are in strong lift and want to go down, a rapid descent method may be needed.

There are three main rapid descent methods:

- Big ears
- B-line stall
- Spiral dive

Each of these descent methods places extra, different stresses on gliders and should be avoided if you want to extend the life of the glider.

It is important these manoeuvres are initially practiced under qualified supervision and preferably during a safety training course.



Big ears

This is the easiest and safest technique for descent while maintaining forward speed. Depending on how much of the wing-tip you deflate, 3m/s to 6m/s sink rate can be achieved. While in big ears your forward speed can be increased by using the speed system.

The Venus II can be steered with big ears in by weight-shift alone.

Initiation: Reach up as high as possible and take hold of the outer A-line on each side of the glider. Pull one in first, maintain direction, and then pull in the second. Hold them in firmly. Make sure the lines are pulled down equally on each side and your big ears are even.

Recovery: Under normal circumstances the ears will stay in until you pressurise the glider by slightly pumping the brakes.

B-line stall

This is an effective way of making a rapid descent but doesn't allow any forward speed.

Initiation: Take hold of the B-risers just below the maillons and smoothly pull them down, twisting your hands until the canopy shows a span-wise crease at the B-line attachment points. It is difficult to pull at first but becomes easier as the aerofoil creases. Your sink rate will increase while your forward speed will reduce to practically zero. Don't release the lines immediately - the glider should be left to settle before releasing.

Recovery: Let go of the risers smoothly but determinedly and symmetrically. The Venus II automatically returns to normal flight without any deep stall tendencies but may dive slightly forward. If the risers are released slowly and very unevenly the glider could start to spin.

Spiral dive

The spiral dive is the most effective way of making a fast descent. During the spiral dive the pilot and glider will experience strong centrifugal forces which strain the glider. As such it should be considered an extreme manoeuvre.

Important notice! A pilot who is dehydrated and/or not accustomed to spiralling can lose consciousness during a steep spiral dive!

As with all types of aircraft, we advise that you allow the Venus II to exit from the spiral dive in a controlled manner. Due to its long lines the Venus II can generate extremely high G-force in spiral dive. You should take care to use only moderate spirals so as not to put unnecessary load on you and your lines.



Initiation: Weight shift and smoothly pull on one brake so the glider goes from a normal 360-degree turn into a steep turn and from there into a spiral dive. Once established in the spiral the descent rate and bank angle can be controlled with weight shift and the outer brake.

Recovery: The Venus II will, in most instances, recover from a spiral spontaneously as soon as the brakes are released and weight shift returns to neutral. To exit allow the spiral to slow for a turn or two by applying outer brake and weight shift then release smoothly. Always finish a spiral dive at a safe altitude.

WARNING about the Spiral Dive: During test flights the Venus II was found on occasion to lock into the spiral dive. This can happen with certain types of harness but also due to the configuration/personal set-up of your harness. If you encounter this behaviour we recommend that you slow down the rotation by applying the outer brake and/or outer weight shift. Do not over apply either brake or weigh shift since there are strong forces at play with potentially dynamic reactions. Once the glider starts to exit the spiral, control your descent rate and bank angle with weight shift and the outer brake to prevent a strong surge as you exit the spiral.

D. Flying in turbulent conditions

Deflations can occur when flying in turbulence but in most situations the Venus II will stabilise without pilot input. Flying with a little brake applied equally will help to prevent deflations and allow you to experience more direct feedback.

Active flying will help avoid deflations. The aim is to keep the glider above your head in all situations by responding correctly to the glider's movements by using the brakes and weight shift.

It is important these manoeuvres are initially practiced under qualified supervision and preferably during a safety training course.

Asymmetric collapse

The Venus II will normally re-inflate after an asymmetric collapse without input from the pilot, but the wing will turn towards the collapsed side. You should always maintain course and direction by weight-shifting away from the collapsed side. This can be reinforced by applying a small amount of brake on the opposite side to the deflation. If the collapse stays in, the collapsed side can be re-inflated by pumping the brake on the collapsed side in a firm and smooth manner.

If you experience a big collapse while accelerated the canopy will fall behind you due to the difference in inertia between you and the canopy. You must wait until



you pendulum back under the canopy before dealing with the deflation. Reacting too early can risk stalling the glider completely. Release the speed-bar immediately if you have a big collapse during accelerated flight and, while keeping weightshift neutral, apply slight brake to the open side. Let the glider enter a turn if space allows in order to avoid a spin or stall.

Symmetric collapse

A symmetric, or frontal, collapse will normally reopen without any pilot input. The Venus II will regain airspeed with a surge. Be careful not to brake while the glider is behind you as this could induce a stall.

Deep stall

The Venus II has no tendency to either get into, or stay in, a deep stall. If the glider does enter a deep stall, accelerate the glider out of the deep stall by either pushing on the A-risers or by using the speed bar. Never try to steer out of a deep stall. A wet glider has a higher tendency to deep stall, so if you pass through rain accelerate a little and avoid using big-ears until the glider is dry.

Full stall

This is an extreme manoeuvre that should rarely, if ever, be required. To induce a full stall take one or two wraps of the brake lines and pull both of them down smoothly. Hold them down, locking your arms under your seat until the canopy falls behind you and deforms into a characteristic crescent shape. In a stable full stall the canopy will oscillate back and forth. Be careful not to release the brakes prematurely or asymmetrically.

The Venus II recovers from a full stall automatically after the brakes are released. During correct recovery, where the brakes are let up a little to allow air to enter the glider prior to being released when the glider is in front of you, the Venus II may surge slightly in front of the pilot.

If the brakes are released prematurely or too quickly there is a possible tendency for the glider to surge strongly. This can be corrected by simultaneous equal braking on both sides. Be careful not to release the brakes asymmetrically as this can cause a large asymmetric collapse followed by a tendency to enter a spin.

Negative spin

Should a spin occur the Venus II is capable of recovering automatically when the brakes are released. As the glider surges forward slow it down with the brakes to avoid the possibility of an asymmetric collapse. Always wait for the glider to be in front of you or above you - never brake while it is behind you as this can risk a stall.



Procedure for steering in case of failure of primary controls

Should you find yourself in the situation where the brake handles are unusable the Venus II can be steered with weight shift or by gently pulling down on the rear risers. You should re-attach both brake handles to the risers hold the rear risers in each hand and steer using weight shift and the appropriate D riser. It is important to remember that the effective travel of the D-line for steering is much shorter than with the brakes.

Remember: *A wrong manoeuvre at the wrong time may change a straightforward situation into a dangerous problem. Extreme manoeuvres also expose your glider to forces which may damage it. Practice these techniques under adequate supervision preferably during a safety training course.*



4. CARE, MAINTENANCE AND REPAIRS

The materials used to construct your Venus II have been carefully chosen for maximum durability. If you treat your glider carefully and follow these guidelines it will last you a long time. Excessive wear can occur by bad ground-handling, careless packing, unnecessary exposure to UV light, exposure to chemicals, heat and moisture.

Ground-handling

- Choose a suitable area to launch your glider. Lines caught on roots or rocks lead to unnecessary strain on the attachment tabs during inflation. Snagging lines may rip the canopy fabric or damage lines.
- When landing, never let the canopy fall on its leading edge. The sudden pressure increase can severely damage the air-resistant coating of the canopy as well as weaken the ribs and seams.
- Dragging the glider over grass, soil, sand or rocks, will significantly reduce its lifetime and increase its porosity.
- When preparing for launch or when ground-handling, be sure not to step on any of the lines or the canopy fabric.
- Don't tie any knots in the lines.

UV damage

Protect your canopy and lines from unnecessary exposure to sunlight.

Storage

- Avoid packing your glider when it is wet. If there's no other way, then dry it as soon as possible away from direct sunlight. Be careful to avoid storing your canopy when damp or wet: this is the most common reason for canopy degradation.
- Don't let your glider come into contact with seawater. If it does, rinse the lines, canopy and risers with fresh water and dry it away from direct sunlight before storing.
- After flight or when storing, always use the inner protection sack.
- When storing or during transport make sure your glider isn't exposed to temperatures higher than 50°C.
- Never let the glider come into contact with chemicals. Clean the glider with clean lukewarm water only. Never clean using abrasives.
- For long-term storage don't pack the glider too tightly. Leave the rucksack zip open when possible to allow any moisture to evaporate.



Repairs

- Small holes in the canopy can be repaired using adhesive tape.
- Larger repairs or cell replacement should only be carried out by the manufacturer's authorised agent.
- Damaged lines should be replaced by your Axis dealer. When a new line has been fitted always check its length against its counterpart on the opposite side of the wing. After replacing a line always inflate the glider on flat ground to check that everything is in order before flying.
- After tree or water landings always examine the glider carefully. If you suspect the glider may be damaged in any way contact your nearest authorised Axis supplier.
- After 100 hours of flying or one year, whichever is sooner, your Venus II must be checked and tested by the manufacturer's authorised agent. This includes an inspection of all components including suspension line strength and line geometry, riser geometry and permeability of the canopy fabric.



5. TECHNICAL DETAILS

The aspect ratio of 6.30, the high number of cells (77), and the reduced total line length gives the Venus II its proven high performance.

The inner structure is a direct development from Axis's Mercury competition glider with every third rib reinforced. The changes in the internal structure mean higher passive safety. The canopy is reinforced by tapes which connect attachment points inside the cells – this prevents distortion and helps the canopy keep its form.

A new line system helps to reduce the length of the main lines. The brake attachments have been moved to the trailing edge to create more precise handling and feedback.

All the stitching is on the inside of the canopy for greater protection.

Testing and certification

The Venus II has passed certification EN-D. The certification of each canopy and its serial number is found on the wingtip label. Certification is valid for all harnesses of ABS type. This type of harness allows a certain degree of adjustment to be made to the length of the waist strap. The recommended distance between the carabiners is minimum 42cm - maximum 46cm.

In common with all other paragliders, when cross-bracing is wider than the maximum recommended 46cm, weight-shift control increases and the glider feels more sensitive. However, automatic recovery from a collapse when using slack cross-bracing can be slower and more unpredictable. When cross-bracing is tighter, the pilot feels more stable but the effectiveness of weight-shift is less effective.

The Venus II has been designed for hill and/or tow launches. It is not a paramotor wing. The use of a power unit, paramotor or motor with the Venus II has not been tested by the manufacturer or by the testing authority.



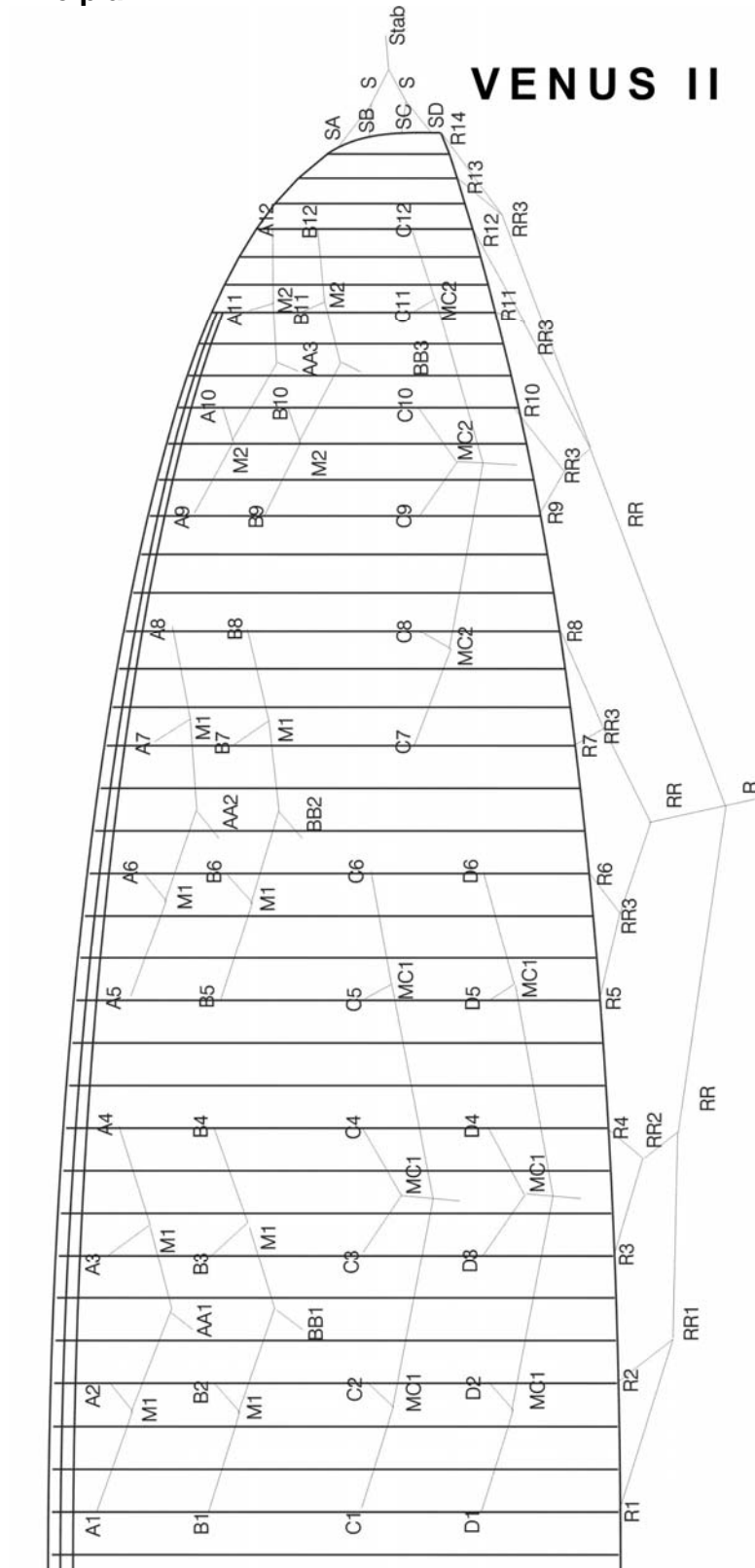
Technical specification

	XS	S	M	L
Flat area (m2)	21.24	23.12	25.09	27.14
Flat span (m)	11.56	12.07	12.57	13.07
Flat aspect ratio	6.30	6.30	6.30	6.30
Projected area (m2)	18.51	20.16	21.87	23.65
Projected span (m)	9.28	9.69	10.09	10.49
Projected aspect ratio	4.6	4.66	4.66	4.66
Maximum wing chord (m)	2.30	2.40	2.50	2.60
Minimum wing chord (m)	0.34	0.35	0.37	0.38
Number of cells	77	77	77	77
Number of risers	4 (5 splitA)	4 (5 splitA)	4 (5 splitA)	4 (5 splitA)
Weight range (kg)	60 - 80	70 - 95	85 - 110	100 - 125
Minimum speed (km/h)	24	24	24	24
Trim speed (km/h)	40	40	40	40
Accelerated speed (km/h)	60	60	60	60
Minimum sink rate	1	1	1	1
Glide ratio	9.7	9.7	9.7	9.7
Glider weight (exc.bag kg)	5.6	5.8	6.1	6.4
Homologation (EN)	none	EN - D	EN - D	EN - D





Line plan





Line length - Venus II Small

Venus II		S							
A1	142,9	B1	134,1	C1	135,6	D1	143,0	R1	136,1
A2	134,0	B2	125,7	C2	122,2	D2	130,3	R2	118,1
A3	130,9	B3	122,5	C3	114,1	D3	122,7	R3	114,4
A4	133,0	B4	125,5	C4	112,0	D4	120,2	R4	107,6
A5	127,7	B5	120,8	C5	114,4	D5	123,2	R5	101,4
A6	118,0	B6	111,2	C6	123,1	D6	131,4	R6	88,5
A7	111,6	B7	106,4	C7	101,3			R7	81,2
A8	111,5	B8	107,4	C8	88,3			R8	81,3
A9	97,5	B9	93,4	C9	78,0			R9	71,0
A10	85,0	B10	81,9	C10	72,9			R10	63,5
A11	73,7	B11	72,1	C11	66,8			R11	55,7
A12	68,1	B12	67,1	C12	65,1			R12	54,9
								R13	48,2
M1	154,7	M1	154,7	MC1	164,8	MC1	164,8	R14	41,5
M1	154,7	M1	154,7	MC1	164,8	MC1	164,8		
M1	154,7	M1	154,7	MC1	164,8	MC1	164,8	RR1	163,9
M1	154,7	M1	154,7	MC2	154,7			RR2	155,0
M2	136,0	M2	136,0	MC2	154,7			RR3	150,2
M2	136,0	M2	136,0	MC2	154,7			RR3	150,2
								RR3	150,2
AA1	438,4	BB1	439,3	CC1	436,8	DD1	452,4	RR3	150,2
AA2	438,1	BB2	438,6	CC2	455,0			RR3	150,2
AA3	468,3	BB3	455,3						
								RR	227,5
		SA	49,2					RR	227,4
		SB	44,1					RR	227,4
		SC	44,1						
		SD	49,2					R	291,6
		S	49,2						
		S	49,2						
		Stab	537,0						

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Line length - Venus II Medium

Venus II		M							
A1	148,6	B1	139,6	C1	141,2	D1	148,6	R1	141,7
A2	139,3	B2	130,5	C2	126,9	D2	135,2	R2	122,6
A3	136,0	B3	127,6	C3	118,7	D3	127,1	R3	118,9
A4	138,7	B4	130,4	C4	116,4	D4	124,9	R4	112,0
A5	132,9	B5	125,4	C5	119,1	D5	128,2	R5	105,3
A6	122,7	B6	115,9	C6	128,1	D6	136,6	R6	92,0
A7	116,2	B7	110,9	C7	105,2			R7	84,3
A8	116,2	B8	111,6	C8	92,1			R8	84,8
A9	101,6	B9	97,5	C9	81,3			R9	74,0
A10	88,4	B10	85,6	C10	75,8			R10	66,3
A11	76,6	B11	74,8	C11	69,6			R11	58,2
A12	71,0	B12	69,6	C12	67,6			R12	57,5
								R13	50,3
								R14	43,4
M1	160,7	M1	160,7	MC1	171,2	MC1	171,2		
M1	160,7	M1	160,7	MC1	171,2	MC1	171,2		
M1	160,7	M1	160,7	MC1	171,2	MC1	171,2	RR1	170,7
M1	160,7	M1	160,7	MC2	160,7			RR2	161,3
M2	141,3	M2	141,3	MC2	160,7			RR3	156,2
M2	141,3	M2	141,3	MC2	160,7			RR3	156,2
								RR3	156,2
AA1	455,9	BB1	457,0	CC1	454,5	DD1		RR3	156,2
AA2	455,7	BB2	456,5	CC2	474,1			RR3	156,2
AA3	486,9	BB3	473,5						
								RR	236,5
		SA	51,3					RR	236,5
		SB	46,0					RR	236,5
		SC	46,0						
		SD	51,3					R	302,7
		S	51,3						
		S	51,3						
		Stab	558,0						

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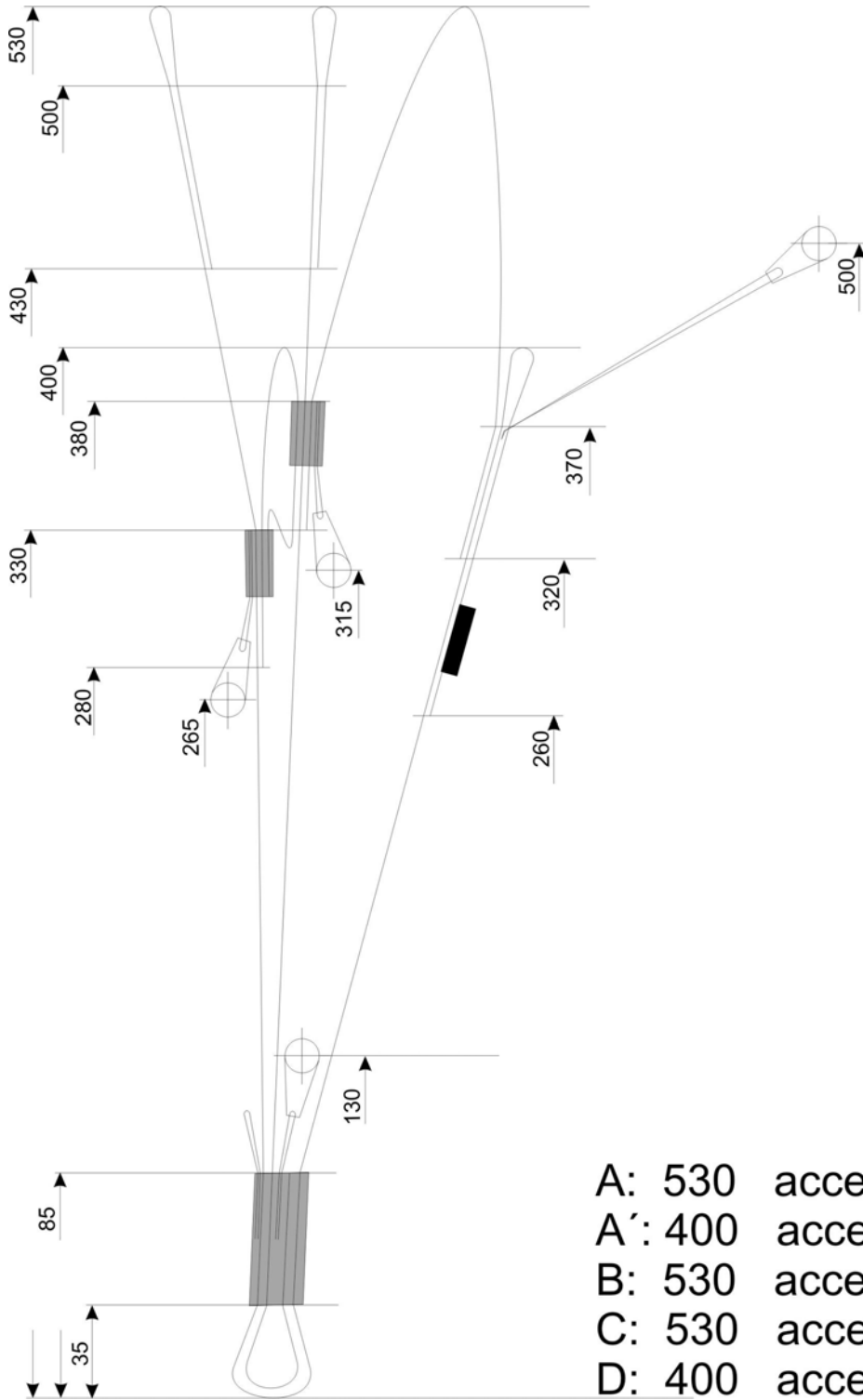


Line length - Venus II Large

Venus II		L							
A1	154,2	B1	145	C1	146,9	D1	154,4	R1	147,3
A2	145,2	B2	136,1	C2	131,7	D2	140,3	R2	127,5
A3	141,5	B3	132,4	C3	123,6	D3	132,1	R3	123,4
A4	144,1	B4	135,7	C4	121	D4	129,8	R4	116,5
A5	138,4	B5	130,4	C5	124,2	D5	133,4	R5	109,4
A6	127,6	B6	120,5	C6	133,4	D6	142	R6	95,5
A7	121,4	B7	115,2	C7	109,3			R7	87,6
A8	121,4	B8	116,2	C8	95,9			R8	88
A9	105,7	B9	101,9	C9	84,9			R9	76,6
A10	92,2	B10	89,4	C10	79,2			R10	69,1
A11	79,9	B11	77,6	C11	72,4			R11	60,5
A12	74	B12	72,4	C12	70,1			R12	59,8
								R13	52,3
								R14	45,3
M1	166,7	M1	166,7	MC1	177,7	MC1	177,7		
M1	166,7	M1	166,7	MC1	177,7	MC1	177,7		
M1	166,7	M1	166,7	MC1	177,7	MC1	177,7	RR1	177,5
M1	166,7	M1	166,7	MC2	167,1			RR2	167,8
M2	147,2	M2	147,2	MC2	167,1			RR3	162,2
M2	147,2	M2	147,2	MC2	167,1			RR3	162,2
								RR3	162,2
AA1	473,9	BB1	474,9	CC1	472,7	DD1	488,3	RR3	162,2
AA2	473,7	BB2	474,5	CC2	492,5			RR3	162,2
AA3	505,8	BB3	492,5						
								RR	245,4
		SA	53,3					RR	245,4
		SB	48,1					RR	245,4
		SC	48,1						
		SD	53,3					R	314,2
		S	53,3						
		S	53,3						
		Stab	579,4						

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Riser configuration





Specification of materials

Canopy

Upper surface: Porcher Sport: Skytex 9017 E77A, water-repellent, 40 g/m²

Lower surface: Porcher Sport: Skytex 9017 E77A, water-repellent, 40 g/m²

Ribs: Porcher Sport: Skytex 9017 E29A, hard finish, 40 g/m²

Reinforcement: Porcher Sport: SR Scrim-2420

Thread: Bonded nylon D60, D40

Suspension system

Lines

LIROS: Dyneema DC 60/0.6, minimum strength 60 daN (upper cascades)

LIROS: Dyneema DC 120/0.85, minimum strength 120 daN (upper cascades)

LIROS: Dyneema PPSL 160/1.40, minimum strength 160 daN

LIROS: Dyneema PPSL 200/1.42, minimum strength 200 daN

LIROS: Dyneema DFLS 200/1.42, minimum strength 200 daN

Risers:

Mouka Tišnov: PES Pre-stretched polyester, minimum strength 2000 daN

Maillons:

Elair Servis: Niro triangle 4/200, minimum strength 200 daN

Speedsystem pulleys:

Riley Fittings Australia: RM 302



6. ABOUT AXIS

Axis started to design and make paragliders in 2001. Success swiftly followed and now many of the world's best competition pilots choose to fly Axis. They have won podium places at competitions around the world, including at recent World Cup events and the World Championships.

The lessons learned from these thousands of hours of competition success have been used to develop the Venus II, a new generation of glider.

We welcome feedback from you about your new Venus II. Send it to us at info@axispara.cz or info@axispara.co.uk (UK pilots).

Please note

We have made every effort to ensure that the information in this manual is correct but please remember it is for guidance only. It is not a training manual. It must not be used as a substitute for proper training under the direction of an approved body.

The manual is subject to change without prior notice. Check the websites for updates and the latest information regarding Axis products.

Enjoy your Venus II !

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