



The Roller is the new speedflying wing from Niviuk. It is a wing with an extensive speed range which can be manoeuvred quickly and is precise at all times.

Its intuitive, direct handling also provides a high degree of safety and user-friendliness.

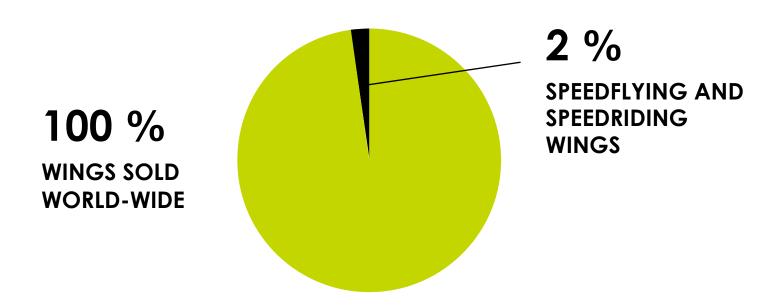
The versatility of this wing means the pilot is not limited to quick descents, but it can also be used to have fun turning in thermals, soaring, practicing *carving* or long flights in strong winds up to 70 km/h.



No, the Roller is NOT an optimised version of the Zion. This is a completely new wing. All our newest technologies have been integrated into the design and this offers many more possibilities for speedflying pilots.

	ZION	ROLLER
Aspect ratio	4.9 m²	4.3 m <sup>2</sup>
Curvature of the canopy arc	15 %	12 %
Number of lines	244	164
Number of risers	4	3
Maximum differential between front and rear riser*	140 mm	190 mm
Trimmers	✓	✓
Speed-bar	Χ	✓
SLE (Structured Leading Edge)	Χ	✓
TNT (Titanium Technology)	Χ	$\checkmark$
RAM (RAM Air Intake)	Χ	✓
3DL (3D Leading Edge)	Χ	✓
3DP (3D Pattern Cut Optimisation)	Χ	<b>✓</b>

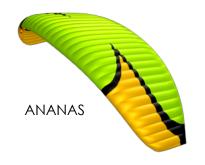
The Roller is intended for speedflying lovers and can be used as a first or second wing.



The Roller is not recommended for beginners; it is ideal for those pilots able to fly actively.



ROLLER			14	16	18	20
Flat	Area	m²	14	16	18	20
	Aspect ratio		4.3	4.3	4.3	4.3
Intermediate weight	Minimum	kg	60	70	80	90
in flight	Maximum	kg	90	100	110	120
Glider weight		kg	3	3.3	3.6	3.9
Certification			EN 926-1	EN 926-1	EN 926-1	EN 926-1





The Niviuk R&D team use Computational Fluid Dynamics (CFD) to simulate and study the aerodynamics of the wing, as well as analysing its behaviour under different conditions within the air mass.

The CFD is key to testing and finding the perfect balance between speed, stability, accuracy and efficiency in turning.

All our wings are tested and evaluated by our test pilots in real situations to guarantee the best outcome for the eventual pilot.



COMPACT WING

Agile and responsive handling.

Fast inflation and simple take off.

Easy to control in flight.

Fast and safe turns and rolls.

No span woobling.

Passive safety and stability.

LOWER ASPECT RATIO

LESS WEIGHT

Fewer cell openings.

Reduced inertia for excellent performance.

Smoother responses.



PROFILE DESIGN

HIGH PERFORMANCE PROFILE Low aerodynamic resistance

Stable at high speed.

Collapse resistant.

No pitching.

Speed without restrictions



EXCELLENT INTERNAL PRESSURE DISTRIBUTION

Great turbulence buffering.

Consistency throughout the wide speed range.

 Excellent slow flying characteristics without the risk of stalling.

Capacity for a low angle of attack.

Collapse resistant.

PRECISE AND RESPONSIVE LATERAL TURNS

Total sensation of control in turns.

DESIGN WITH A REDUCED CANOPY ARC

**STABILITY** 

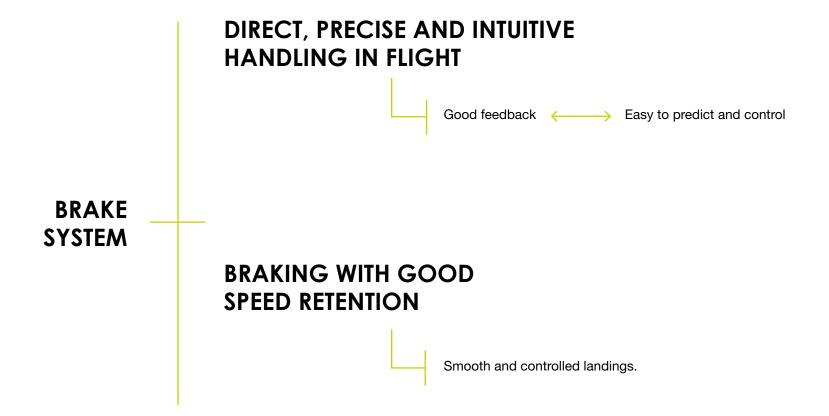
Throughout the entire speed range.

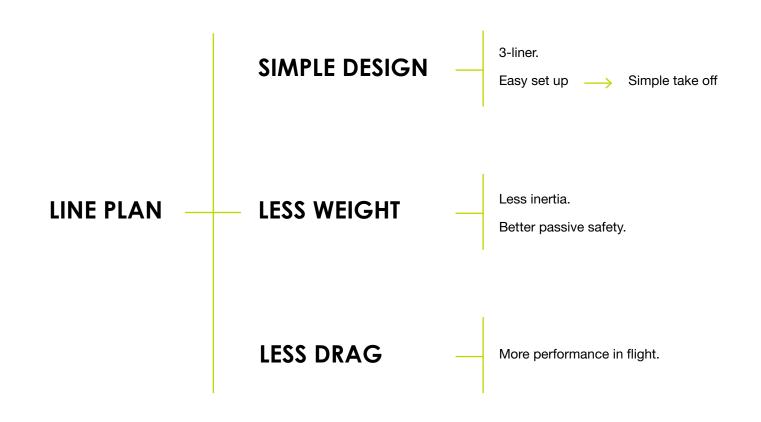
Throughout the entire range of angles of attack.

TRIMMER AND

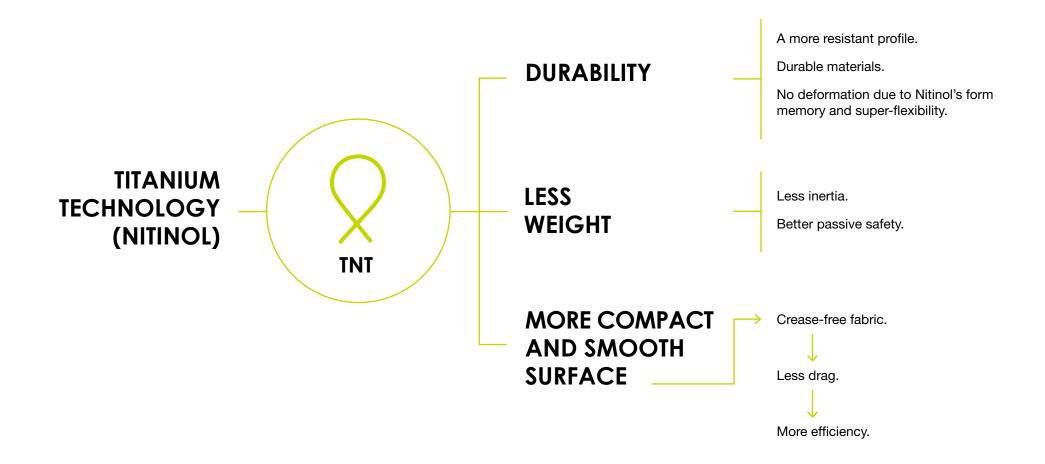
**SPEED SYSTEM** 

# WIDE SPEED RANGE THANKS TO THE EFFICIENCY OF THE SPEED-BAR AND TRIMMERS Wide range of angles of attack. Wide range of flying possibilities: speedflying, thermalling, soaring, carving... Incredible barrel rolls. Great swooping potential. High speed/altitude fun.



















### **LEVEL RANGE**

