DHV Databases



PRINT TECHNICAL DATA DHV TESTREPORT LTF DATASHEET PARTS LIST OPERATING INSTRUCTION **DHV TESTREPORT LTF UP RIMO SM** Type designation UP Rimo SM Type test reference no DHV GS-01-2623-21 Holder of certification <u>UP International GmbH</u> Manufacturer UP International GmbH **Classification** A Winch towing Yes Number of seats min / max 1/1**Accelerator** Yes **Trimmers** No BEHAVIOUR AT MIN WEIGHT IN **BEHAVIOUR AT MAX WEIGHT** IN FLIGHT (105KG) FLIGHT (70KG) **Test pilots Beni Stocker Sebastian Mackrodt** No release No release Inflation/take-off Rising behaviour Smooth, easy and constant rising Smooth, easy and constant rising **Special take off technique required No** No A A <u>Landing</u> No **Special landing technique required No** Speeds in straight flight A Trim speed more than 30 km/h Yes Yes Speed range using the controls larger than 10 Yes Yes km/h Minimum speed Less than 25 km/h Less than 25 km/h Control movement Symmetric control pressure Increasing Increasing **Symmetric control travel** Greater than 55 cm Greater than 65 cm Pitch stability exiting accelerated flight ¦A A Dive forward less than 30° Dive forward angle on exit Dive forward less than 30° Collapse occurs No No Pitch stability operating controls during Α A accelerated flight Collapse occurs No No Roll stability and damping **Oscillations** Reducing Reducing Stability in gentle spirals Tendency to return to straight flight Spontaneous exit Spontaneous exit Behaviour exiting a fully developed spiral dive A **Initial response of glider (first 180°)** Immediate reduction of rate of turn Immediate reduction of rate of turn Tendency to return to straight flight Spontaneous exit (g force decreasing, rate of Spontaneous exit (g force decreasing, turn decreasing) rate of turn decreasing) **Turn angle to recover normal flight** Less than 720°, spontaneous recovery Less than 720°, spontaneous recovery **Symmetric front collapse** A **Entry** Rocking back less than 45° Rocking back less than 45° Spontaneous in less than 3 s **Recovery** Spontaneous in less than 3 s **Dive forward angle on exit** Dive forward 0° to 30° Dive forward 0° to 30° **Change of course** Keeping course Keeping course Cascade occurs No No Folding lines used no no Unaccelerated collapse (at least 50 % chord) A Rocking back less than 45° **Entry** Rocking back less than 45° **Recovery** Spontaneous in less than 3 s Spontaneous in less than 3 s **Dive forward angle on exit** Dive forward 0° to 30° Dive forward 0° to 30° **Change of course** Entering a turn of less than 90° Keeping course Cascade occurs No No Folding lines used no no Accelerated collapse (at least 50 % chord) A A **Entry** Rocking back less than 45° Rocking back less than 45° **Recovery** Spontaneous in less than 3 s Spontaneous in less than 3 s **Dive forward angle on exit** Dive forward 0° to 30° Dive forward 0° to 30° Change of course Entering a turn of less than 90° Keeping course Cascade occurs No No Folding lines used no no <u> Exiting deep stall (parachutal stall)</u> **Deep stall achieved** Yes Yes **Recovery** Spontaneous in less than 3 s Spontaneous in less than 3 s Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° to 30° **Change of course** Changing course less than 45° Changing course less than 45° Cascade occurs No High angle of attack recovery Spontaneous in less than 3 s **Recovery** Spontaneous in less than 3 s Cascade occurs No No Recovery from a developed full stall Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° to 30° **Collapse** No collapse No collapse Cascade occurs (other than collapses) No No **Rocking back** Less than 45° Less than 45° **Line tension** Most lines tight Most lines tight Small asymmetric collapse ¦A Change of course until re-inflation Less than 90° Less than 90° Maximum dive forward or roll angle Dive or roll angle 0° to 15° Dive or roll angle 15° to 45° **Re-inflation behaviour** Spontaneous re-inflation Spontaneous re-inflation **Total change of course** Less than 360° Less than 360° Collapse on the opposite side occurs No (or only a small number of collapsed cells No (or only a small number of with a spontaneous re inflation) collapsed cells with a spontaneous re inflation) No Twist occurs No Cascade occurs No No Folding lines used no no Large asymmetric collapse Change of course until re-inflation Less than 90° Less than 90° Maximum dive forward or roll angle Dive or roll angle 15° to 45° Dive or roll angle 15° to 45° **Re-inflation behaviour** Spontaneous re-inflation Spontaneous re-inflation Less than 360° **Total change of course** Less than 360° Collapse on the opposite side occurs No (or only a small number of collapsed cells No (or only a small number of with a spontaneous re inflation) collapsed cells with a spontaneous re inflation) Twist occurs No No Cascade occurs No No Folding lines used no no Small asymmetric collapse accelerated A Change of course until re-inflation Less than 90° Less than 90° Dive or roll angle 15° to 45° Maximum dive forward or roll angle Dive or roll angle 15° to 45° **Re-inflation behaviour** Spontaneous re-inflation Spontaneous re-inflation Less than 360° **Total change of course** Less than 360° Collapse on the opposite side occurs No (or only a small number of collapsed cells No (or only a small number of collapsed cells with a spontaneous re with a spontaneous re inflation) inflation) Twist occurs No No Cascade occurs No No Folding lines used no no Large asymmetric collapse accelerated Change of course until re-inflation Less than 90° Less than 90° **Maximum dive forward or roll angle** Dive or roll angle 15° to 45° Dive or roll angle 15° to 45° **Re-inflation behaviour** Spontaneous re-inflation Spontaneous re-inflation Less than 360° **Total change of course** Less than 360° Collapse on the opposite side occurs No (or only a small number of collapsed cells No (or only a small number of with a spontaneous re inflation) collapsed cells with a spontaneous re inflation) No Twist occurs No Cascade occurs No No Folding lines used no no **Directional control with a maintained** A A asymmetric collapse Able to keep course Yes Yes **180° turn away from the collapsed side possible in** Yes Yes Amount of control range between turn and stall or More than 50 % of the symmetric control More than 50 % of the symmetric **spin** travel control travel Trim speed spin tendency **Spin occurs** No No

B-line stall	A	A
Change of course before release	Changing course less than 45°	Changing course less than 45°
Behaviour before release	Remains stable with straight span	Remains stable with straight span
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Cascade occurs	No	No
<u>Big ears</u>	A	A
Entry procedure	Dedicated controls	Dedicated controls
Behaviour during big ears	Stable flight	Stable flight
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Big ears in accelerated flight	A	A
Entry procedure	Dedicated controls	Dedicated controls
Behaviour during big ears	Stable flight	Stable flight
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Behaviour immediately after releasing the accelerator while maintaining big ears		Stable flight
Alternative means of directional control	A	A

A

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No

Α

No

Yes

No

Stops spinning in less than 90°

Spin occurs No

Cascade occurs No

180° turn achievable in 20 s Yes

No other flight procedure or configuration described in the user's manual

Stall or spin occurs No

Any other flight procedure and/or configuration described in the user's manual

Spin rotation angle after release Stops spinning in less than 90°

Low speed spin tendency

Recovery from a developed spin