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TECHNICAL DATA DHV TESTREPORT LTF DATASHEET PARTS LIST OPERATING INSTRUCTION

TESTREPORT LTF 2014

UP RIMO M

Type designation UP Rimo M Type test reference no DHV GS-01-2622-21 Holder of certification UP International GmbH 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 (120KG) FLIGHT (80KG) Test pilots Sebastian Mackrodt Josef Bauer No release No release A Inflation/take-off Α Rising behaviour Smooth, easy and constant rising Smooth, easy and constant rising Special take off technique required No No Landing Α Α Special landing technique required No No Speeds in straight flight A Α 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 Α Α Symmetric control pressure Increasing Increasing Symmetric control travel Greater than 60 cm Greater than 65 cm Pitch stability exiting accelerated flight A Α Dive forward angle on exit Dive forward less than 30° Dive forward less than 30° Collapse occurs No No Pitch stability operating controls during Α Α accelerated flight Collapse occurs No No A Roll stability and damping Α **Oscillations** Reducing Reducing Stability in gentle spirals A Α Tendency to return to straight flight Spontaneous exit Spontaneous exit Behaviour exiting a fully developed spiral dive A Α 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, Spontaneous exit (g force rate of turn decreasing) decreasing, rate of turn decreasing) Turn angle to recover normal flight Less than 720°, spontaneous recovery Less than 720°, spontaneous recoverv Symmetric front collapse A Α

Dive forward angle on exi Change of cours Cascade occur Folding lines use Unaccelerated collapse (at least 50 % chord) Entr	e Keeping course s No d no	Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course No no A Rocking back less than 45°
Cascade occur Folding lines user Unaccelerated collapse (at least 50 % chord) Entr Recover Dive forward angle on exi	s No d no A y Rocking back less than 45°	No no A
Folding lines user Unaccelerated collapse (at least 50 % chord) Entr Recover Dive forward angle on exi	d no A Y Rocking back less than 45°	no A
Unaccelerated collapse (at least 50 % chord) Entr Recover Dive forward angle on exi	A y Rocking back less than 45°	A
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Recover Dive forward angle on exi		Rocking back less than 45°
Dive forward angle on exi	y Spontaneous in less than 3 s	Chantanaaya in laas than 2 s
2	t Dive forward 0° to 30°	Spontaneous in less than 3 s Dive forward 0° to 30°
change of cours		Keeping course
Cascade occur	1 5	No
Folding lines use		no
-		
Accelerated collapse (at least 50 % chord)	Α	A
	y Rocking back less than 45°	Rocking back less than 45°
	y Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exi		Dive forward 0° to 30°
Change of course Cascade occur		Keeping course
Folding lines use		No no
Folding lines used	a 110	110
Exiting deep stall (parachutal stall)	A	Α
Deep stall achieve	d Yes	Yes
	y Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exi		Dive forward 0° to 30°
-	e Changing course less than 45°	Changing course less than 45°
Cascade occur	s No	No
High angle of attack recovery	A	A
Recover	y Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occur		No
Receivery from a developed full stall	A	A
Recovery from a developed full stall		-±
Dive forward angle on exi		Dive forward 0° to 30°
	e No collapse	No collapse No
Cascade occurs (other than collapses	k Less than 45°	Less than 45°
_	n Most lines tight	Most lines tight
Small asymmetric collapse	<u> </u> A	A
Change of course until re-inflation	n Less than 90°	Less than 90°
Maximum dive forward or roll angle	-	Dive or roll angle 15° to 45°
	r Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occur	s No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occur	s No	No
Cascade occur		No
Folding lines use		no
Large asymmetric collapse	A	A
Change of course until re-inflation		Less than 90°
Maximum dive forward or roll angle	-	Dive or roll angle 15° to 45°
Re-inflation behaviou Total change of cours	r Spontaneous re-inflation	Spontaneous re-inflation Less than 360°
	e Less than 360° s No (or only a small number of collapsed	Less than 360° No (or only a small number of
compse on the opposite side occur	cells with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation)
Twist occur	s No	No
Cascade occur		No
Folding lines use	d no	no
Small asymmetric collapse accelerated	A	A
Change of course until re-inflation	-4	Less than 90°
Maximum dive forward or roll angle		Less than 90° Dive or roll angle 15° to 45°
LINALIJANI NIVE IU WALL DI LUD AND		Spontaneous re-inflation
	•	Less than 360°
Re-inflation behaviou	e Less than 360°	
Re-inflation behaviou Total change of course	s No (or only a small number of collapsed	No (or only a small number of collapsed cells with a spontaneous
Re-inflation behaviou Total change of course		No (or only a small number of collapsed cells with a spontaneous re inflation)
Re-inflation behaviou Total change of course	s No (or only a small number of collapsed cells with a spontaneous re inflation)	collapsed cells with a spontaneous
Re-inflation behaviou Total change of cours Collapse on the opposite side occur Twist occur Cascade occur	 s No (or only a small number of collapsed cells with a spontaneous re inflation) s No s No 	collapsed cells with a spontaneous re inflation)
Re-inflation behaviou Total change of cours Collapse on the opposite side occur Twist occur	 s No (or only a small number of collapsed cells with a spontaneous re inflation) s No s No 	collapsed cells with a spontaneous re inflation) No

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
Total change of course	e Less than 360°	Less than 360°
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	l no	no
Directional control with a maintained asymmetric collapse	Α	A
Able to keep course	Yes	Yes
180° turn away from the collapsed side possible in 10 s		Yes
Amount of control range between turn and stall or spin		More than 50 % of the symmetric control travel
Trim speed spin tendency	A	A
Spin occurs	s No	No
Low speed spin tendency	A	A
Spin occurs	s No	No
Recovery from a developed spin	A	A
Spin rotation angle after release	Stops spinning in less than 90°	Stops spinning in less than 90°
Cascade occurs	s 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
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
, Dive forward angle on exit		Dive forward 0° to 30°
Cascade occurs		No
Big ears	Α	Α
Entry procedure	Standard technique	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	Α
Entry procedure	Standard technique	Dedicated controls
Behaviour during big ears		Stable flight
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
۔ Dive forward angle on exit		Dive forward 0° to 30°
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Stable flight
Alternative means of directional control		A
Alternative means of unectional control	Α	
	<u>.</u>	
180° turn achievable in 20 s	s Yes	Yes
	s Yes	

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