DHV-tested Equipment | Flying Equipment Database

Manufacturers / Dealers

Flying Schools

Clubs

TECHNICAL DATA DHY TESTREPORT LTF DHY TESTREPORT EN DATASHEET PRINT

DHV TESTREPORT LTF

UP SUMMIT X L

Type designation UP Summit X L

Type test reference no DHV GS-01-2761-23

Holder of certification UP International GmbH

Manufacturer UP International GmbH

Classification B Winch towing Yes

Number of seats min / max $\ 1\ /\ 1$ Accelerator Yes

BEHAVIOUR AT MIN WEIGHT IN FLIGHT (100KG)

Test pilots



BEHAVIOUR AT MAX WEIGHT IN FLIGHT (125KG)



	Harald Buntz	Mario Eder
	No release	No release
Inflation/take-off	В	В
Rising behaviour	Easy rising, some pilot correction is required	Easy rising, some pilot correction is required
Special take off technique required	No	No
<u>Landing</u>	A	A
Special landing technique required	No	No
Speeds in straight flight	A	В
Trim speed more than 30 km/h	Yes	Yes
Speed range using the controls larger than 10 km/h	Yes	Yes
Minimum speed	Less than 25 km/h	25 km/h to 30 km/h
Control movement	A	A
Symmetric control pressure	Increasing	Increasing
Symmetric control travel	Greater than 60 cm	Greater than 65 cm
Pitch stability exiting accelerated flight	A	A
Dive forward angle on exit	: Dive forward less than 30°	Dive forward less than 30°
Collapse occurs	s No	No
Pitch stability operating controls during accelerated flight	А	А
Collapse occurs	: No	No
Roll stability and damping	A	A
Oscillations	Reducing	Reducing
Stability in gentle spirals	A	A

Tendency to return to straight flight Spontaneous exit (g force decreasing, rate of turn decreasing) straight Spontaneous exit (g force decreasing, rate of turn decreasing)

Turn angle to recover normal flight Less than 720°, spontaneous recovery Symmetric front collapse A

Tendency to return to straight flight Spontaneous exit

Behaviour exiting a fully developed spiral dive

Entry Rocking back less than 45°

Recovery Spontaneous in less than 3 s Dive forward angle on exit Dive forward 0° to 30°

Change of course Keeping course

Initial response of glider (first 180°) Immediate reduction of rate of turn

Cascade occurs No Folding lines used no

Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course

no

Immediate reduction of rate of turn

Less than 720°, spontaneous recovery

Spontaneous exit

Unaccelerated collapse (at least 50 % chord)	la.	A
1	Rocking back less than 45°	Rocking back less than 45°
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	•	Dive forward 0° to 30°
-	Entering a turn of less than 90°	Keeping course
Cascade occurs	: No	No
Folding lines used	no	no
Accelerated colleges (at least E0 0), about	t.	t.
Accelerated collapse (at least 50 % chord)	¦A	;A
-	Rocking back less than 45°	Rocking back less than 45°
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	: Dive forward 0° to 30° : Entering a turn of less than 90°	Dive forward 0° to 30° Entering a turn of less than 90°
Cascade occurs	_	No
Folding lines used		no
_		
Exiting deep stall (parachutal stall)	В	Α
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 30° to 60°	Dive forward 0° to 30°
_	Changing course less than 45°	Changing course less than 45°
Cascade occurs	s No	No
High angle of attack recovery	A	A
L	1	4
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs) NU	No
Recovery from a developed full stall	В	A
	<u> </u>	Dive forward 0° to 30°
Dive forward angle on exit	: Dive forward 30° to 60° : No collapse	No collapse
Cascade occurs (other than collapses)	•	No conapse No
	Less than 45°	Less than 45°
Line tension	Most lines tight	Most lines tight
Small asymmetric collapse	A	Α
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 0° to 15°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		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	s No	No
Folding lines used	no	no
Large asymmetric collapse	В	В
Large asymmetric comapse	ט _ו	10
	0001 1000	0001 1000
Change of course until re-inflation		90° to 180°
Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
Maximum dive forward or roll angle Re-inflation behaviou	Dive or roll angle 15° to 45° Spontaneous re-inflation	
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Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	More than 50 % of the symmetric control travel
Trim speed spin tendency	A	A
Spin occurs	No	No
Low speed spin tendency	A	A
Spin occurs	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	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°	Dive forward 0° to 30°
Cascade occurs	No	No
<u>Big ears</u>	В	A
Entry procedure	Standard technique	Standard technique
Behaviour during big ears	Stable flight	Stable flight
Recovery	Recovery through pilot action in less than a further 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	В	A
Entry procedure	Standard technique	Standard technique
Behaviour during big ears	Stable flight	Stable flight
Recovery	Recovery through pilot action in less than a further 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
180° turn achievable in 20 s	Yes	Yes
Stall or spin occurs	No	No
	No	

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