DHV TESTREPORT EN 926-2:2013+A1:2021



UP KIBO X L Type designation UP Kibo X L Type test reference no DHV GS-01-2883-24 Holder of certification UP International GmbH Manufacturer UP International GmbH **Classification** B Winch towing Yes Number of seats min / max 1 / 1 Accelerator Yes Trimmers No **BEHAVIOUR AT MIN WEIGHT IN BEHAVIOUR AT MAX WEIGHT** FLIGHT (105KG) IN FLIGHT (130KG) **Test pilots** Harald Bunt Sebastian Mackrodt No release No release Inflation/take-off A 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 Α 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 Less than 25 km/h **Control movement** Symmetric control pressure Increasing Increasing Symmetric control travel Greater than 65 cm Greater than 65 cm Pitch stability exiting accelerated flight A 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 Roll stability and damping :A A **Oscillations** Reducing Reducing Stability in gentle spirals Α 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, 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 В _____ Entry Rocking back less than 45° Rocking back less than 45° Recovery Spontaneous in less than 3 s Spontaneous in 3 s to 5 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	s No	No
Folding lines used	l no	no
Unaccelerated collapse (at least 50 % chord)	A	В
L	 Rocking back less than 45° 	Rocking back less than 45°
Recovery	Spontaneous in less than 3 s	Spontaneous in 3 s to 5 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	s No	No
Folding lines used	l no	no
Accelerated collapse (at least 50 % chord)	A	В
Entry	 Rocking back less than 45° 	Rocking back less than 45°
-	Spontaneous in less than 3 s	Spontaneous in 3 s to 5 s
Dive forward angle on exit		Dive forward 0° to 30°
Change of course		Entering a turn of less than 90°
Cascade occurs		No
Folding lines used		no
Exiting deep stall (parachutal stall)	<u>¦A</u>	<u>¦A</u>
Deep stall achieved		Yes
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°
5	Changing course less than 45°	Changing course less than 45°
Cascade occurs	; No	No
High angle of attack recovery	A	A
	÷	- <u>i</u>
Cascade occurs	r Spontaneous in less than 3 s s No	Spontaneous in less than 3 s No
Recovery from a developed full stall	A	A
<u>.</u>	<u>.</u>	
Dive forward angle on exit		Dive forward 0° to 30°
-	No collapse	No collapse
Cascade occurs (other than collapses)		No
_	Less than 45°	Less than 45°
Line tension	Nost lines tight	Most lines tight
Small asymmetric collapse	Α	A
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	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
Cascade occurs	s No	No
Folding lines used	l no	no
Large asymmetric collapse	В	В
L	4	- <u>4</u>
Change of course until re-inflation		90° to 180°
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°
conapse 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
Cascade occurs		No
Folding lines used	l no	no
Small asymmetric collapse accelerated	A	A
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	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 collapsed cells with a spontaneous reinflation)
Twist occurs	with a spontaneous re inflation) No	cells with a spontaneous re inflation) No
Cascade occurs		No
Folding lines used	no	no

Large asymmetric collapse accelerated	в	В
Change of course until re-inflation	90° to 180°	90° to 180°
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	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	no	no
Directional control with a maintained	A	A
<u>asymmetric collapse</u>		
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	More than 50 % of the symmetric control travel
Trim speed spin tendency	A	Α
Spin occurs	No	No
Low speed spin tendency	A	Α
Spin occurs	No	No
Recovery from a developed spin	в	A
Spin rotation angle after release Cascade occurs		Stops spinning in less than 90° No
<u>B-line stall</u>	A	Α
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
Big ears	A	A
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°
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°	Dive forward 0° to 30°
Behaviour immediately after releasing the accelerator while maintaining big ears		Stable flight
Alternative means of directional control	A	A
		. <u>.</u>
180° turn achievable in 20 s Stall or spin occurs		Yes No
Any other flight procedure and/or configuratio	n described in the user's manual	

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