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TECHNICAL DATA | DHV TESTREPORT LTF | DHV TESTREPORT EN | DATASHEET | PARTS LIST | OPERATING INSTRUCTION | PRINT



DHV TESTREPORT EN926-2:2014

UP KIBO S

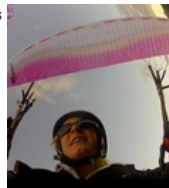
Type designation UP Kibo S
Type test reference no DHV GS-01-2218-16
Holder of certification [UP International GmbH](#)
Manufacturer [UP International GmbH](#)
Classification B
Winch towing Yes
Number of seats min / max 1 / 1
Accelerator Yes
Trimmers No



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (65KG)

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (85KG)

Test pilots



Sophia Putzer



Harald Buntz

Expert Beni Stocker

| | | |
|---|---|--|
| Inflation/take-off | A | A |
| Rising behaviour Smooth, easy and constant rising | | Smooth, easy and constant rising |
| Special take off technique required No | | No |
| Landing | A | A |
| Special landing technique required No | | No |
| Speeds in straight flight | A | A |
| 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 | A | A |
| Symmetric control pressure Increasing | | Increasing |
| Symmetric control travel Greater than 55 cm | | Greater than 60 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 No | | No |
| Pitch stability operating controls during accelerated flight | A | A |
| 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 | | Spontaneous exit |
| en : Verhalten beim Verlassen einer vollständigen Steilspirale | A | A |
| en : Erstes Ansprechen des Gleitschirms (die ersten 180°) Drehgeschwindigkeit | | en : unmittelbare Verringerung der Drehgeschwindigkeit |
| Tendency to return to straight flight en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit | | en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit |

| | | |
|---|--|--|
| | abnehmend) Turn angle to recover normal flight Less than 720°, spontaneous recovery | abnehmend) Less than 720°, spontaneous recovery |
| Symmetric front collapse | 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 | Keeping course | Keeping course |
| Cascade occurs | No | No |
| en : Faltleinen wurden benutzt | no | no |
| en : Symmetrischer Frontklapper mindestens 50% Flügeltiefe | 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° | Entering a turn of less than 90° |
| Cascade occurs | No | No |
| en : Faltleinen wurden benutzt | no | no |
| en : Symmetrischer Frontklapper im beschleunigten Flug | 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° | Entering a turn of less than 90° |
| Cascade occurs | No | No |
| en : Faltleinen wurden benutzt | no | no |
| Exiting deep stall (parachutal stall) | A | A |
| 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 | No |
| High angle of attack recovery | A | A |
| Recovery | Spontaneous in less than 3 s | Spontaneous in less than 3 s |
| Cascade occurs | No | No |
| Recovery from a developed full stall | A | A |
| 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 |
| en : Kleiner einseitiger Klapper | 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 | en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung) | en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung) |
| Twist occurs | No | No |
| Cascade occurs | No | No |
| en : Faltleinen wurden benutzt | no | no |
| en : Großer einseitiger Klapper | B | B |
| 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 | en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung) | en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung) |
| Twist occurs | No | No |
| Cascade occurs | No | No |
| en : Faltleinen wurden benutzt | no | no |
| en : Kleiner einseitiger Klapper im beschleunigten Flug | 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 | en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung) | en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung) |
| Twist occurs | No | No |
| Cascade occurs | No | No |
| en : Faltleinen wurden benutzt | no | no |
| en : Großer einseitiger Klapper im beschleunigten Flug | B | B |

| | | |
|---|--|--|
| 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 | en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung) | en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung) |
| Twist occurs | No | No |
| Cascade occurs | No | No |
| en : Faltleinen wurden benutzt | no | no |

Directional control with a maintained asymmetric collapse

A

A

| | | |
|--|--|--|
| Able to keep course | Yes | Yes |
| 180° turn away from the collapsed side possible in 10 s | Yes | 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

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 |
| 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 | 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 | Stable flight |

Alternative means of directional control

A

A

| | | |
|-------------------------------------|-----|-----|
| 180° turn achievable in 20 s | Yes | Yes |
| Stall or spin occurs | No | No |

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

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