



DHV TESTREPORT EN926-2:2014

NOVA MENTOR 6 LIGHT S

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| Type designation | NOVA Mentor 6 light S |
| Type test reference no | DHV GS-01-2448-19 |
| Holder of certification | NOVA Vertriebsgesellschaft m.b.H. |
| Manufacturer | NOVA Vertriebsgesellschaft m.b.H. |
| Classification | B |
| Winch towing | Yes |
| Number of seats min / max | 1 / 1 |
| Accelerator | Yes |
| Trimmers | No |



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (80KG)

Test pilots



Harald Buntz

No release

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (100KG)



Sebastian Mackrodt

No release

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 60 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°) en : unmittelbare Verringerung der Drehgeschwindigkeit

en : unmittelbare Verringerung der Drehgeschwindigkeit

Tendency to return to straight flight en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit abnehmend)

en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit abnehmend)

Turn angle to recover normal flight Less than 720°, spontaneous recovery

Less than 720°, spontaneous recovery

Symmetric front collapse

B

B

Entry Rocking back less than 45°

Rocking back less than 45°

Recovery Spontaneous in 3 s to 5 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 Entering a turn of less than 90°

Entering a turn of less than 90°

Cascade occurs No

No

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| en : Faltleinen wurden benutzt | no | no |
| en : Symmetrischer Frontklapper mindestens 50% Flügeltiefe | B | B |
| Entry | Rocking back less than 45° | Rocking back less than 45° |
| Recovery | Spontaneous in 3 s to 5 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 | 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 mindestens 50% Flügeltiefe | B | B |
| Entry | Rocking back less than 45° | Rocking back less than 45° |
| Recovery | Spontaneous in 3 s to 5 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 | 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 | B | A |
| Change of course until re-inflation | 90° to 180° | 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° |
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| Twist occurs | No | No |
| Cascade occurs | No | No |
| en : Faltleinen wurden benutzt | no | no |
| en : Kleiner einseitiger Klapper im beschleunigten Flug | B | A |
| Change of course until re-inflation | 90° to 180° | 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 |
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| 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 |

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| 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 | B | A |
| Entry procedure | Dedicated controls | Dedicated controls |
| 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 | B | A |
| Entry procedure | Dedicated controls | Dedicated controls |
| 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 | 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 | | |