



## DHV TESTREPORT EN926-2:2014

## GIN PEGASUS 2 30

**Type designation** GIN Pegasus 2 30  
**Type test reference no** DHV GS-01-2361-18  
**Holder of certification** [GIN Gliders Inc.](#)  
**Manufacturer** [GIN Gliders Inc.](#)  
**Classification** A  
**Winch towing** Yes  
**Number of seats min / max** 1 / 1  
**Accelerator** Yes  
**Trimmers** No



## BEHAVIOUR AT MIN WEIGHT IN FLIGHT (95KG)

## Test pilots



Harald Buntz

## BEHAVIOUR AT MAX WEIGHT IN FLIGHT (120KG)



Sebastian Mackrott

|   |   |   |
|---|---|---|
| <b>Inflation/take-off</b>   | A   | A   |
| <b>Rising behaviour</b>   | Smooth, easy and constant rising  | Smooth, easy and constant rising  |
| <b>Special take off technique required</b>                            | No  | No  |
| <b>Landing</b>  | A   | A   |
| <b>Special landing technique required</b>                             | No  | No  |
| <b>Speeds in straight flight</b>                                      | A   | A   |
| <b>Trim speed more than 30 km/h</b>                                   | Yes   | Yes   |
| <b>Speed range using the controls larger than 10 km/h</b>             | Yes   | Yes   |
| <b>Minimum speed</b>  | Less than 25 km/h   | Less than 25 km/h   |
| <b>Control movement</b>   | A   | A   |
| <b>Symmetric control pressure</b>                                     | Increasing  | Increasing  |
| <b>Symmetric control travel</b>                                       | Greater than 60 cm  | Greater than 65 cm  |
| <b>Pitch stability exiting accelerated flight</b>                     | A   | A   |
| <b>Dive forward angle on exit</b>                                     | Dive forward less than 30°  | Dive forward less than 30°  |
| <b>Collapse occurs</b>  | No  | No  |
| <b>Pitch stability operating controls during accelerated flight</b>   | A   | A   |
| <b>Collapse occurs</b>  | No  | No  |
| <b>Roll stability and damping</b>                                     | A   | A   |
| <b>Oscillations</b>   | Reducing  | Reducing  |
| <b>Stability in gentle spirals</b>                                    | A   | A   |
| <b>Tendency to return to straight flight</b>                          | Spontaneous exit  | Spontaneous exit  |
| <b>en : Verhalten beim Verlassen einer vollständigen Steilspirale</b> | A   | A   |
| <b>en : Erstes Ansprechen des Gleitschirms (die ersten 180°)</b>      | en : unmittelbare Verringerung der Drehgeschwindigkeit                            | en : unmittelbare Verringerung der Drehgeschwindigkeit                            |
| <b>Tendency to return to straight flight</b>                          | en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit abnehmend) | en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit abnehmend) |
| <b>Turn angle to recover normal flight</b>                            | Less than 720°, spontaneous recovery  | Less than 720°, spontaneous recovery  |

|  |   |  |
|--|---|--|
| <u>Symmetric front collapse</u>  | A | A  |
| <b>Entry</b> Rocking back less than 45°  |   | Rocking back less than 45°   |
| <b>Recovery</b> Spontaneous in less than 3 s   |   | Spontaneous in less than 3 s   |
| <b>Dive forward angle on exit</b> Dive forward 0° to 30°   |   | Dive forward 0° to 30°   |
| <b>Change of course</b> Keeping course   |   | Keeping course   |
| <b>Cascade occurs</b> No   |   | No   |
| <b>en : Faltleinen wurden benutzt</b> no   |   | no   |
| <u>en : Symmetrischer Frontklapper mindestens 50% Flügeltiefe</u>  | A | A  |
| <b>Entry</b> Rocking back less than 45°  |   | Rocking back less than 45°   |
| <b>Recovery</b> Spontaneous in less than 3 s   |   | Spontaneous in less than 3 s   |
| <b>Dive forward angle on exit</b> Dive forward 0° to 30°   |   | Dive forward 0° to 30°   |
| <b>Change of course</b> Keeping course   |   | Keeping course   |
| <b>Cascade occurs</b> No   |   | No   |
| <b>en : Faltleinen wurden benutzt</b> no   |   | no   |
| <u>en : Symmetrischer Frontklapper im beschleunigten Flug mindestens 50% Flügeltiefe</u>   | A | A  |
| <b>Entry</b> Rocking back less than 45°  |   | Rocking back less than 45°   |
| <b>Recovery</b> Spontaneous in less than 3 s   |   | Spontaneous in less than 3 s   |
| <b>Dive forward angle on exit</b> Dive forward 0° to 30°   |   | Dive forward 0° to 30°   |
| <b>Change of course</b> Entering a turn of less than 90°   |   | Entering a turn of less than 90°   |
| <b>Cascade occurs</b> No   |   | No   |
| <b>en : Faltleinen wurden benutzt</b> no   |   | no   |
| <u>Exiting deep stall (parachutal stall)</u>   | A | A  |
| <b>Deep stall achieved</b> Yes   |   | Yes  |
| <b>Recovery</b> Spontaneous in less than 3 s   |   | Spontaneous in less than 3 s   |
| <b>Dive forward angle on exit</b> Dive forward 0° to 30°   |   | Dive forward 0° to 30°   |
| <b>Change of course</b> Changing course less than 45°  |   | Changing course less than 45°  |
| <b>Cascade occurs</b> No   |   | No   |
| <u>High angle of attack recovery</u>   | A | A  |
| <b>Recovery</b> Spontaneous in less than 3 s   |   | Spontaneous in less than 3 s   |
| <b>Cascade occurs</b> No   |   | No   |
| <u>Recovery from a developed full stall</u>  | A | A  |
| <b>Dive forward angle on exit</b> Dive forward 0° to 30°   |   | Dive forward 0° to 30°   |
| <b>Collapse</b> No collapse  |   | No collapse  |
| <b>Cascade occurs (other than collapses)</b> No  |   | No   |
| <b>Rocking back</b> Less than 45°  |   | Less than 45°  |
| <b>Line tension</b> Most lines tight   |   | Most lines tight   |
| <u>en : Kleiner einseitiger Klapper</u>  | A | A  |
| <b>Change of course until re-inflation</b> Less than 90°   |   | Less than 90°  |
| <b>Maximum dive forward or roll angle</b> Dive or roll angle 0° to 15°   |   | Dive or roll angle 0° to 15°   |
| <b>Re-inflation behaviour</b> Spontaneous re-inflation   |   | Spontaneous re-inflation   |
| <b>Total change of course</b> Less than 360°   |   | Less than 360°   |
| <b>Collapse on the opposite side occurs</b> 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) |
| <b>Twist occurs</b> No   |   | No   |
| <b>Cascade occurs</b> No   |   | No   |
| <b>en : Faltleinen wurden benutzt</b> no   |   | no   |
| <u>en : Großer einseitiger Klapper</u>   | A | A  |
| <b>Change of course until re-inflation</b> 90° to 180°   |   | 90° to 180°  |
| <b>Maximum dive forward or roll angle</b> Dive or roll angle 0° to 15°   |   | Dive or roll angle 0° to 15°   |
| <b>Re-inflation behaviour</b> Spontaneous re-inflation   |   | Spontaneous re-inflation   |
| <b>Total change of course</b> Less than 360°   |   | Less than 360°   |
| <b>Collapse on the opposite side occurs</b> 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) |
| <b>Twist occurs</b> No   |   | No   |
| <b>Cascade occurs</b> No   |   | No   |
| <b>en : Faltleinen wurden benutzt</b> no   |   | no   |
| <u>en : Kleiner einseitiger Klapper im beschleunigten Flug</u>   | A | A  |
| <b>Change of course until re-inflation</b> Less than 90°   |   | Less than 90°  |
| <b>Maximum dive forward or roll angle</b> Dive or roll angle 15° to 45°  |   | Dive or roll angle 15° to 45°  |
| <b>Re-inflation behaviour</b> Spontaneous re-inflation   |   | Spontaneous re-inflation   |
| <b>Total change of course</b> Less than 360°   |   | Less than 360°   |
| <b>Collapse on the opposite side occurs</b> 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) |
| <b>Twist occurs</b> No   |   | No   |
| <b>Cascade occurs</b> No   |   | No   |
| <b>en : Faltleinen wurden benutzt</b> no   |   | no   |
| <u>en : Großer einseitiger Klapper im beschleunigten Flug</u>  | A | A  |
| <b>Change of course until re-inflation</b> Less than 90°   |   | Less than 90°  |

|   |  |  |
|---|--|--|
| <b>Maximum dive forward or roll angle</b>   | Dive or roll angle 15° to 45°  | Dive or roll angle 15° to 45°  |
| <b>Re-inflation behaviour</b>               | Spontaneous re-inflation   | Spontaneous re-inflation   |
| <b>Total change of course</b>               | Less than 360°   | Less than 360°   |
| <b>Collapse on the opposite side occurs</b> | 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) |
| <b>Twist occurs</b>                         | No   | No   |
| <b>Cascade occurs</b>                       | No   | No   |
| <b>en : Faltleinen wurden benutzt</b>       | 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