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DHV TESTREPORT EN926-2:2014

**GIN SPRINT 3 M**

|                           |                                  |
|---------------------------|----------------------------------|
| Type designation          | GIN Sprint 3 M                   |
| Type test reference no    | DHV GS-01-2224-16                |
| Holder of certification   | <a href="#">GIN Gliders Inc.</a> |
| Manufacturer              | <a href="#">GIN Gliders Inc.</a> |
| Classification            | B                                |
| Winch towing              | Yes                              |
| Number of seats min / max | 1 / 1                            |
| Accelerator               | Yes                              |
| Trimmers                  | No                               |



**BEHAVIOUR AT MIN WEIGHT IN FLIGHT (85KG)**

**BEHAVIOUR AT MAX WEIGHT IN FLIGHT (105KG)**

Test pilots



**Beni Stocker**



**Harald Buntz**

|   |                                  |                                  |
|---|----------------------------------|----------------------------------|
| <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                                |

en : Erstes Ansprechen des Gleitschirms (die en : unmittelbare Verringerung der

en : unmittelbare Verringerung der

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|--|---|--|
| <b>Tendency to return to straight flight</b>   | ersten 180°) Drehgeschwindigkeit<br>en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit abnehmend) | Drehgeschwindigkeit<br>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   |
| <b>Symmetric front collapse</b>  | <b>A</b>  | <b>A</b>   |
| <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   |
| <b>en : Symmetrischer Frontklapper mindestens 50% Flügeltiefe</b>                        | <b>A</b>  | <b>A</b>   |
| <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°  | Keeping course   |
| <b>Cascade occurs</b>  | No  | No   |
| <b>en : Faltleinen wurden benutzt</b>  | no  | no   |
| <b>en : Symmetrischer Frontklapper im beschleunigten Flug mindestens 50% Flügeltiefe</b> | <b>B</b>  | <b>A</b>   |
| <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 30° to 60°   | Dive forward 0° to 30°   |
| <b>Change of course</b>  | Entering a turn of less than 90°  | Keeping course   |
| <b>Cascade occurs</b>  | No  | No   |
| <b>en : Faltleinen wurden benutzt</b>  | no  | no   |
| <b>Exiting deep stall (parachutal stall)</b>   | <b>A</b>  | <b>A</b>   |
| <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   |
| <b>High angle of attack recovery</b>   | <b>A</b>  | <b>A</b>   |
| <b>Recovery</b>  | Spontaneous in less than 3 s  | Spontaneous in less than 3 s   |
| <b>Cascade occurs</b>  | No  | No   |
| <b>Recovery from a developed full stall</b>  | <b>A</b>  | <b>A</b>   |
| <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   |
| <b>en : Kleiner einseitiger Klapper</b>  | <b>A</b>  | <b>A</b>   |
| <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   |
| <b>en : Großer einseitiger Klapper</b>   | <b>B</b>  | <b>B</b>   |
| <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 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   |
| <b>en : Kleiner einseitiger Klapper im beschleunigten Flug</b>                           | <b>A</b>  | <b>B</b>   |
| <b>Change of course until re-inflation</b>   | Less than 90°   | 90° to 180°  |
| <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)       |

|   |  |  |
|---|--|--|
|   | eingeklappten Zellen mit selbstständiger Wiederöffnung)  | 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   |
| <b>en : Großer einseitiger Klapper im beschleunigten Flug</b>                           | <b>B</b>   | <b>B</b>   |
| <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 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   |
| <b>Directional control with a maintained asymmetric collapse</b>                        | <b>A</b>   | <b>A</b>   |
| <b>Able to keep course</b>  | Yes  | Yes  |
| <b>180° turn away from the collapsed side possible in 10 s</b>                          | Yes  | Yes  |
| <b>Amount of control range between turn and stall or spin</b>                           | More than 50 % of the symmetric control travel   | More than 50 % of the symmetric control travel   |
| <b>Trim speed spin tendency</b>   | <b>A</b>   | <b>A</b>   |
| <b>Spin occurs</b>  | No   | No   |
| <b>Low speed spin tendency</b>  | <b>A</b>   | <b>A</b>   |
| <b>Spin occurs</b>  | No   | No   |
| <b>Recovery from a developed spin</b>   | <b>A</b>   | <b>A</b>   |
| <b>Spin rotation angle after release</b>  | Stops spinning in less than 90°  | Stops spinning in less than 90°  |
| <b>Cascade occurs</b>   | No   | No   |
| <b>B-line stall</b>   | <b>A</b>   | <b>A</b>   |
| <b>Change of course before release</b>  | Changing course less than 45°  | Changing course less than 45°  |
| <b>Behaviour before release</b>   | Remains stable with straight span  | Remains stable with straight span  |
| <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>Cascade occurs</b>   | No   | No   |
| <b>Big ears</b>   | <b>B</b>   | <b>B</b>   |
| <b>Entry procedure</b>  | Dedicated controls   | Dedicated controls   |
| <b>Behaviour during big ears</b>  | Stable flight  | Stable flight  |
| <b>Recovery</b>   | Recovery through pilot action in less than a further 3 s   | Recovery through pilot action in less than a further 3 s   |
| <b>Dive forward angle on exit</b>   | Dive forward 0° to 30°   | Dive forward 0° to 30°   |
| <b>Big ears in accelerated flight</b>   | <b>B</b>   | <b>B</b>   |
| <b>Entry procedure</b>  | Dedicated controls   | Dedicated controls   |
| <b>Behaviour during big ears</b>  | Stable flight  | Stable flight  |
| <b>Recovery</b>   | Recovery through pilot action in less than a further 3 s   | Recovery through pilot action in less than a further 3 s   |
| <b>Dive forward angle on exit</b>   | Dive forward 0° to 30°   | Dive forward 0° to 30°   |
| <b>Behaviour immediately after releasing the accelerator while maintaining big ears</b> | Stable flight  | Stable flight  |
| <b>Alternative means of directional control</b>   | <b>A</b>   | <b>A</b>   |
| <b>180° turn achievable in 20 s</b>   | Yes  | Yes  |
| <b>Stall or spin occurs</b>   | No   | No   |
| <b>Any other flight procedure and/or configuration described in the user's manual</b>   |  |  |
| No other flight procedure or configuration described in the user's manual               |  |  |