



## DHV TESTREPORT EN926-2:2014

## GIN EXPLORER S

<b>Type designation</b>	GIN Explorer S
<b>Type test reference no</b>	DHV GS-01-2260-17
<b>Holder of certification</b>	<a href="#">GIN Gliders Inc.</a>
<b>Manufacturer</b>	<a href="#">GIN Gliders Inc.</a>
<b>Classification</b>	B
<b>Winch towing</b>	Yes
<b>Number of seats min / max</b>	1 / 1
<b>Accelerator</b>	Yes
<b>Trimmers</b>	No



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (75KG)

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (100KG)

## Test pilots



Harald Buntz



Sebastian Mackrott

Inflation/take-off

A

B

**Rising behaviour** Smooth, easy and constant risingen : einfaches Aufziehen, etwas Korrektur des Piloten erforderlich  
No**Special take off technique required** NoLanding

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 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

<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>B</b>	<b>B</b>
<b>Entry</b> Rocking back less than 45°		Rocking back less than 45°
<b>Recovery</b> Spontaneous in 3 s to 5 s		Spontaneous in 3 s to 5 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
<b>en : Symmetrischer Frontklapper im beschleunigten Flug</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 3 s to 5 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>B</b>	<b>B</b>
<b>Dive forward angle on exit</b> Dive forward 30° to 60°		Dive forward 30° to 60°
<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>A</b>
<b>Change of course until re-inflation</b> 90° to 180°		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 : Kleiner einseitiger Klapper im beschleunigten Flug</b>	<b>B</b>	<b>A</b>
<b>Change of course until re-inflation</b> 90° to 180°		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 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 : Falteinen wurden benutzt</b>	no	no

**Directional control with a maintained asymmetric collapse**

A

A

<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

**Trim speed spin tendency**

A

A

<b>Spin occurs</b>	No	No
--------------------	----	----

**Low speed spin tendency**

A

A

<b>Spin occurs</b>	No	No
--------------------	----	----

**Recovery from a developed spin**

A

A

<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-line stall**

A

A

<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

**Big ears**

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°

**Big ears in accelerated flight**

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

**Alternative means of directional control**

A

A

<b>180° turn achievable in 20 s</b>	Yes	Yes
<b>Stall or spin occurs</b>	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