Deutscher Hängegleiterverband e.V.

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DHV TESTREPORT LTF 2009

GIN GTO 2 L

Type designation GIN GTO 2 L

Type test reference no $\,$ DHV GS-01-2125-15 $\,$

Holder of certification GIN Gliders Inc.

Manufacturer GIN Gliders Inc.

Classification C Winch towing Yes

Number of seats min / max $\ 1\ /\ 1$

Accelerator Yes

Trimmers No



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (100KG)

Test pilots





Rocking back less than 45°

Spontaneous in 3 s to 5 s

Inflation/take-off	Harald Buntz	Sebastian Mackrodt A
L		
_	behaviour Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off techniqu	e required No	No
<u>Landing</u>	А	Α
Special landing techniqu	e required No	No
Speeds in straight flight	А	В
Trim speed more that	n 30 km/h Yes	Yes
Speed range using the controls larger that	n 10 km/h Yes	Yes
Minin	num speed Less than 25 km/h	25 km/h to 30 km/h
Control movement	А	c
Symmetric contro	l pressure Increasing	Increasing
Symmetric con	itrol travel Greater than 60 cm	50 cm to 65 cm
Pitch stability exiting accelerated flig	ht A	A
Dive forward an	gle on exit Dive forward less than 30°	Dive forward less than 30°
Colla	pse occurs No	No
Pitch stability operating controls duri accelerated flight	ng A	А
Colla	pse occurs No	No
Roll stability and damping	A	A
o	scillations Reducing	Reducing
Stability in gentle spirals	A	А
Tendency to return to stra	light flight Spontaneous exit	Spontaneous exit
Behaviour in a steeply banked turn	<u>∱</u> B	В
Sink rate after	two turns More than 14 m/s	More than 14 m/s

Entry Rocking back greater than 45°

Recovery Spontaneous in 3 s to 5 s

Symmetric front collapse

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Dive forward angle on exit Change of course Cascade occurs	Entering a turn of less than 90°	Dive forward 0° to 30° Entering a turn of less than 90° No
,		
Symmetric front collapse in accelerated flight	L	c
-	Rocking back greater than 45° Spontaneous in 3 s to 5 s	Rocking back greater than 45° Spontaneous in 3 s to 5 s
Dive forward angle on exit		Dive forward 0° to 30°
	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	No	No
Exiting deep stall (parachutal stall)	В	В
Deep stall achieved	Yes	Yes
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 30° to 60°
Cascade occurs	Changing course less than 45° No	Changing course less than 45° No
	!-	!_
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs	•	No
Recovery from a developed full stall	В	В
Dive forward angle on exit		Dive forward 30° to 60°
_	No collapse	No collapse
Cascade occurs (other than collapses)	•	No
	Greater than 45°	Greater than 45°
Line tension	Most lines tight	Most lines tight
Asymmetric collapse 45-50%	A	A
Change of course until re-inflation		Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
Re-inflation behaviour		Spontaneous re-inflation
Total change of course Collapse on the opposite side occurs		Less than 360° No
Twist occurs		No
Cascade occurs		No
Asymmetric collapse 70-75%	c	c
Change of course until re-inflation	L	90° to 180°
Maximum dive forward or roll angle		Dive or roll angle 45° to 60°
Re-inflation behaviour	·	Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occurs Twist occurs		No No
Cascade occurs		No
Asymmetric collapse 45-50% in accelerated		c
flight		1
Change of course until re-inflation		Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 45° to 60°
Re-inflation behaviour Total change of course	•	Spontaneous re-inflation Less than 360°
Collapse on the opposite side occurs		No No
Twist occurs	No	No
Cascade occurs	No	No
Asymmetric collapse 70-75% in accelerated	lc	c
flight	<u> </u>	<u> </u>
Change of course until re-inflation Maximum dive forward or roll angle		90° to 180° Dive or roll angle 60° to 90°
_	Inflates in less than 3 s from start of pilot	Spontaneous re-inflation
	action	·
Total change of course		Less than 360°
Collapse on the opposite side occurs		No No
Twist occurs Cascade occurs		No
Directional control with a maintained		<u> </u>
asymmetric collapse	C	С
Able to keep course 180° turn away from the collapsed side possible in		Yes Yes
10 s		
Amount of control range between turn and stall or spin	25 % to 50 % of the symmetric control travel	25 % to 50 % of the symmetric contro travel
Trim speed spin tendency	A	A
	No	No
Spin occurs		T.
	Δ	!Δ
Low speed spin tendency	A No	No No
Low speed spin tendency Spin occurs		<u> </u>

Cascade occurs No

No

B-line stall	с	c		
Change of course before release	se Changing course more than 45°	Changing course less than 45°		
Behaviour before release	se Remains stable without straight span	Remains stable without straight span		
Recove	ry Spontaneous in less than 3 s	Spontaneous in less than 3 s		
Dive forward angle on ex	it Dive forward 0° to 30°	Dive forward 0° to 30°		
Cascade occu	rs No	No		
<u>Biq ears</u>	В	В		
Entry procedu	re Dedicated controls	Dedicated controls		
Behaviour during big ea	rs Stable flight	Stable flight		
Recove	ry Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s		
Dive forward angle on ex	it Dive forward 0° to 30°	Dive forward 0° to 30°		
Big ears in accelerated flight	A	А		
Entry procedu	re Standard technique	Dedicated controls		
Behaviour during big ea	rs Stable flight	Stable flight		
Recove	ry Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s		
Dive forward angle on ex	it Dive forward 0° to 30°	Dive forward 0° to 30°		
Behaviour immediately after releasing the accelerator while maintaining big ea		Stable flight		
Behaviour exiting a steep spiral	A	A		
Tendency to return to straight flig	ht Spontaneous exit	Spontaneous exit		
Turn angle to recover normal flig	ht Less than 720°, spontaneous recovery	Less than 720°, spontaneous recovery		
Sink rate when evaluating spiral stability [m/	s] 14	14		
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

by jursaconsulting