# **DHY** Deutscher Hängegleiterverband e.V. im DAeC Akkreditierte Musterprüfstelle für Hängegleiter und Gleitsegel nach DIN EN ISO/IEC 17020:2012-07

## GS TESTFLUG LTF 2009 GIN GTO 2 S

Test No 026636-GSTF09-659-Beni Test date 19.10.2014 Location Gardasee / Mt Baldo Type GIN GTO 2 S Test type GS Testflug LTF 2009 Test order Auftrag GS Musterprüfung GIN GTO 2 S (GIN Gliders Inc.) Customer GIN Gliders Inc. Test standard LTF NFL II-91/09 Test standard 2 EN 926-2:2005 Expert Stocker Result positive Billing to: 100%

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Datum / Unterschrift (Beni Stocker)

#### RESULTS

PG test flight (general)	
Take off weight [kg]	
Weight limit for certification [kg]	80
Number of pilots	1
test pilot	Beni Stocker
Harness type	SUP'AIR 02
Harness category	GH
Minimum speed [km/h]	23
Trim speed [km/h]	35
Accelerated speed [km/h]	0
Accelerator used?	Yes
Trimms	-
en : Klassifizierung	
en : Klassifizierung	D
EN : ERGEBNISDETAILS NACH LTF 20	009
1 Inflation/take-off	Α
	Smooth, easy and constant rising
Special take off technique required	No
2 Landing	Α
Special landing technique required	
3 Speeds in straight flight	Α
Trim speed more than 30 km/h	Yes
Speed range using the controls larger than 10 km/h	
· · · · · ·	Less than 25 km/h

4 Control movement		С
Symmetric control pressure	Increasing	
Symmetric control travel		
5 Pitch stability exiting accelerated fli	ight	Α
Dive forward angle on exit	Dive forward 30° to 60°	
Collapse occurs	No	
6 Pitch stability operating controls du		Α
Collapse occurs	No	
7 Roll stability and damping	Deducing	Α
Oscillations	Reducing	
8 Stability in gentle spirals		Α
Tendency to return to straight flight	Spontaneous evit	A
rendency to return to straight right	Spontaneous exit	
9 Behaviour in a steeply banked turn		А
Sink rate after two turns	12 m/s to 14 m/s	~
	,	
10.1 Symmetric front collapse		В
	Rocking back less than 45°	
Recovery	Spontaneous in 3 s to 5 s	
Dive forward angle on exit	Dive forward 30° to 60°	
Change of course	Entering a turn of less than 90°	
Cascade occurs	No	
<b>10.2</b> Symmetric front collapse in accel		D
Entry	Rocking back less than 45°	
	Recovery through pilot action in less than a further 3 s	
Dive forward angle on exit		
-	Entering a turn of 90° to 180°	
Cascade occurs	No	
11 Eviting doop stall (navashutal stall		•
11 Exiting deep stall (parachutal stall Deep stall achieved	-	Α
Deep stall achieved	NO	
12 High angle of attack recovery		А
	Spontaneous in less than 3 s	
Cascade occurs	•	
13 Recovery from a developed full sta	11	С
Dive forward angle on exit	Dive forward 60° to 90°	
Collapse	No collapse	
Cascade occurs (other than collapses)	No	
Rocking back	Less than 45°	
Line tension	Most lines tight	
Les est		
14.1 Asymmetric collapse 45-50%		В
Change of course until re-inflation		
Maximum dive forward or roll angle		
	Spontaneous re-inflation	
Total change of course		
Collapse on the opposite side occurs		
Twist occurs		
Cascade occurs		

Test result details :: GS Testflug LTF 2009 GIN GTO 2 S (Result: positive) https://service.dhv.de/db2/details.php?qi=tmo\_pruefprotokoll&item=2...

14.2 Asymmetric collapse 70-75%		В
Change of course until re-inflation	90° to 180°	
Maximum dive forward or roll angle		
_	Spontaneous re-inflation	
Total change of course	Less than 360°	
Collapse on the opposite side occurs	No	
Twist occurs	No	
Cascade occurs	No	
14.3 Asymmetric collapse 45-50% in a		В
Change of course until re-inflation		
Maximum dive forward or roll angle	-	
	Spontaneous re-inflation	
Total change of course Collapse on the opposite side occurs		
Twist occurs		
Cascade occurs		
14.4 Asymmetric collapse 70-75% in a		С
Change of course until re-inflation		
Maximum dive forward or roll angle	Dive or roll angle 45° to 60°	
	Spontaneous re-inflation	
Total change of course		
Collapse on the opposite side occurs		
Twist occurs		
Cascade occurs	No	
15 Directional control with a maintain	ed asymmetric collapse	с
Able to keep course	Yes	
180° turn away from the collapsed side possible in 10 s		
Amount of control range between turn	25 % to 50 % of the symmetric control travel	
and stall or spin		
16 Trim speed spin tendency		Α
Spin occurs	No	
17 Low speed spin tendency		Α
Spin occurs	No	
18 Recovery from a developed spin		А
Spin rotation angle after release	Stops spinning in less than 90°	
Cascade occurs		
19 B-line stall		D
Change of course before release	Changing course more than 45°	
Behaviour before release	Unstable	
Recovery	Recovery through pilot action in less than a further 3 s	
Dive forward angle on exit	Dive forward 0° to 30°	
Cascade occurs	No	
		-
20 Big ears	Ctandard tachniqua	В
	Standard technique	
Behaviour during big ears	-	
Dive forward angle on exit	Spontaneous in 3 s to 5 s	
Dive forward angle of exit		

21 Big ears in accelerated flight		Α
Entry procedure	Standard technique	
Behaviour during big ears	Stable flight	
Recovery	Spontaneous in 3 s to 5 s	
Dive forward angle on exit	Dive forward 0° to 30°	
Behaviour immediately after releasing the accelerator while maintaining big ears		
22 Behaviour exiting a steep spiral		A
Tendency to return to straight flight	Spontaneous exit	
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	
Sink rate when evaluating spiral stability [m/s]		
23 Alternative means of directional co	ntrol	A
180° turn achievable in 20 s	Yes	
Stall or spin occurs	No	
24 Any other flight procedure and/or the user's manual	configuration described in	
	No other flight procedure or configuration described in the user's manual	
Sprachmodul <u>default</u> Sprachmodul <u>default_constants</u> Sprachmodul default_dhy		

Sprachmodul <u>default\_tmo</u> Sprachmodul <u>erg\_flusi</u> Sprachmodul <u>tmo\_pruefungen</u> Sprachmodul <u>tmo\_pruefungentestflug</u> Sprachmodul <u>tmo\_pruefungentestfluggs</u> Sprachmodul <u>tmo\_pruefungentestfluggsltf09</u>

Sprachmodul <u>tmo\_pruefauftraege</u> Sprachmodul <u>dhv\_adressen</u> Sprachmodul <u>tmo\_muster</u> Sprachmodul <u>tmo\_musterfremd</u> Sprachmodul <u>tmo\_pruefungsarten</u> Sprachmodul <u>dhv\_adressenperson</u> Sprachmodul <u>dhv\_adressenumsetzung</u> Sprachmodul <u>dhv\_adressen\_constants</u>

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## GS TESTFLUG LTF 2009 GIN GTO 2 S

Test No 026615-GSTF09-649-Harry Test date 27.10.2014 Location Pyeongtaek/Korea Type GIN GTO 2 S Test type GS Testflug LTF 2009 Test order Auftrag GS Musterprüfung GIN GTO 2 S (GIN Gliders Inc.) Customer GIN Gliders Inc. Test standard LTF NFL II-91/09 Test standard 2 EN 926-2:2005 Expert Buntz Result positive Billing to: 100% Technical peculiarities

H.BP

Datum / Unterschrift (Harald Buntz)

RESULTS	
PG test flight (general)	
Take off weight [kg]	95
Weight limit for certification [kg]	95
Number of pilots	1
test pilot	Harald Buntz
Harness type	GIN Gingo 2
Harness category	GH
Minimum speed [km/h]	23
Trim speed [km/h]	35
Accelerated speed [km/h]	55
Accelerator used?	Yes
Trimms	-
en : Klassifizierung	
en : Klassifizierung	C
EN : ERGEBNISDETAILS NACH LTF 20	009
1 Inflation/take-off	Α
	Smooth, easy and constant rising
Special take off technique required	No
2 Landing	Α
Special landing technique required	
3 Speeds in straight flight	Α
Trim speed more than 30 km/h	
Speed range using the controls larger	Yes
than 10 km/h	

Minimum speed Less than 25 km/h

4 Control movement		Α
Symmetric control pressure	Increasing	
Symmetric control travel	Greater than 60 cm	
5 Pitch stability exiting accelerated fli		Α
Dive forward angle on exit	Dive forward less than 30°	
Collapse occurs	No	
6 Pitch stability operating controls du	ring accelerated flight	А
Collapse occurs		
7 Roll stability and damping		Α
Oscillations	Reducing	
1		
8 Stability in gentle spirals		Α
Tendency to return to straight flight	Spontaneous exit	
9 Behaviour in a steeply banked turn		В
Sink rate after two turns	More than 14 m/s	
10.1 Symmetric front collapse		С
Entry	Rocking back greater than 45°	
-	Spontaneous in 3 s to 5 s	
Dive forward angle on exit		
Change of course	Entering a turn of less than 90°	
Cascade occurs	No	
10.2 Symmetric front collapse in accel	erated flight	С
	Rocking back greater than 45°	
	Spontaneous in 3 s to 5 s	
۔ Dive forward angle on exit	Dive forward 30° to 60°	
Change of course	Entering a turn of less than 90°	
Cascade occurs	No	
11 Exiting deep stall (parachutal stall		В
Deep stall achieved	Spontaneous in less than 3 s	
Dive forward angle on exit		
-	Changing course less than 45°	
Cascade occurs		
12 High angle of attack recovery		Α
Recovery	Spontaneous in less than 3 s	
Cascade occurs	No	
13 Recovery from a developed full sta	п	В
Dive forward angle on exit		
-	No collapse	
Cascade occurs (other than collapses)	No	
Rocking back	Greater than 45°	
Line tension	Most lines tight	
1		
14.1 Asymmetric collapse 45-50%	Loss than 000	Α
Change of course until re-inflation Maximum dive forward or roll angle		
maximum unve forward of foir angle		

Re-inflation behaviour Spontaneous re-inflation

Total change of course	Less than 360°	
Collapse on the opposite side occurs	No	
Twist occurs	No	
Cascade occurs	No	
14.2 Asymmetric collapse 70-75%		С
Change of course until re-inflation	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	No	
Twist occurs	No	
Cascade occurs	No	
14.3 Asymmetric collapse 45-50% in a	accelerated flight	С
Change of course until re-inflation		
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	No	
Twist occurs	No	
Cascade occurs	No	
14.4 Asymmetric collapse 70-75% in a	accelerated flight	С
Change of course until re-inflation		
Maximum dive forward or roll angle	Dive or roll angle 60° to 90°	
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	
Total change of course	Less than 360°	
Collapse on the opposite side occurs	Yes, no turn reversal	
Twist occurs	No	
Cascade occurs	No	
		_
15 Directional control with a maintain		С
Able to keep course		
180° turn away from the collapsed side possible in 10 s		
•	25 % to 50 % of the symmetric control travel	
and stall or spin		
16 Trim speed spin tendency		<b>A</b>
Spin occurs	No	
L		
17 Low speed spin tendency	81-	A
Spin occurs	NO	
18 Recovery from a developed spin		с
Spin rotation angle after release	Stops spinning in 90° to 180°	<u> </u>
Cascade occurs		
19 B-line stall		С
Change of course before release	Changing course more than 45°	
	Remains stable without straight span	
	Spontaneous in less than 3 s	
Dive forward angle on exit		
Cascade occurs		

Test result details :: GS Testflug LTF 2009 GIN GTO 2 S (Result: positive) https://service.dhv.de/db2/details.php?qi=tmo\_pruefprotokoll&item=2...

Entry procedure Dedicated controls Behaviour during big ears Stable flight Recovery Spontaneous in 3 s to 5 s Dive forward angle on exit Dive forward 0° to 30° 21 Big ears in accelerated flight Entry procedure Standard technique Behaviour during big ears Stable flight Recovery Spontaneous in 3 s to 5 s Dive forward angle on exit Dive forward 0° to 30° Behaviour immediately after releasing Stable flight the accelerator while maintaining big ears 22 Behaviour exiting a steep spiral Tendency to return to straight flight Spontaneous exit Turn angle to recover normal flight Less than 720°, spontaneous recovery Sink rate when evaluating spiral stability 14 [m/s] 23 Alternative means of directional control 180° turn achievable in 20 s Yes Stall or spin occurs No 24 Any other flight procedure and/or configuration described in the user's manual vachmodul default vachmodul default vachmodul default vachmodul default vachmodul timo_puediunteage vachmo	20 Big ears		
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the user's manual       No other flight procedure or configuration described in the user's manual         prachmodul default       manual         prachmodul tmo       pruefungen         prachmodul tmo       pruefungentestflug         prachmodul tmo       pruefungentestfluggs         prachmodul tmo       pruefungentestfluggs         prachmodul tmo       pruefungentestfluggs         prachmodul tmo       pruefungentestfluggs         prachmodul tmo       pruefungen         prachmodul tmo       muster         prachmodul tmo       pruefungsarten         prachmodul tmo       dhv       adressen	Stall or spin occur	rs No	
manual prachmodul default prachmodul default constants prachmodul default dhv prachmodul default tmo prachmodul erg_flusi prachmodul tmo_pruefungentestflug prachmodul tmo_pruefungentestfluggs prachmodul tmo_pruefungentestfluggs prachmodul tmo_pruefungentestfluggs prachmodul tmo_pruefungentestfluggs prachmodul tmo_pruefungentestfluggs prachmodul tmo_muster prachmodul tmo_muster prachmodul tmo_muster prachmodul tmo_muster prachmodul tmo_pruefungsarten prachmodul tmo_pruefungsarten prachmodul tmo_pruefungsarten prachmodul tmo_pruefungsarten		r configuration described in	
prachmodul <u>default_constants</u> prachmodul <u>default_dhv</u> prachmodul <u>default_tmo</u> prachmodul <u>erg_flusi</u> prachmodul <u>tmo_pruefungentestflug</u> prachmodul <u>tmo_pruefungentestfluggs</u> prachmodul <u>tmo_pruefungentestfluggsltf09</u> prachmodul <u>tmo_pruefauftraege</u> prachmodul <u>tmo_pruefauftraege</u> prachmodul <u>tmo_muster</u> prachmodul <u>tmo_muster</u> prachmodul <u>tmo_musterfremd</u> prachmodul <u>tmo_pruefungsarten</u> prachmodul <u>tmo_pruefungsarten</u> prachmodul <u>tmo_pruefungsarten</u>			
arachmodul default_dhv arachmodul erg_flusi arachmodul erg_flusi arachmodul tmo_pruefungen arachmodul tmo_pruefungentestflug arachmodul tmo_pruefungentestfluggs arachmodul tmo_pruefungentestfluggsltf09 arachmodul tmo_pruefauftraege arachmodul dhv_adressen arachmodul tmo_muster arachmodul tmo_muster arachmodul tmo_muster arachmodul tmo_musterfremd arachmodul tmo_pruefungsarten arachmodul tmo_pruefungsarten arachmodul dhv_adressenperson			
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rachmodul <u>tmo_pruefungen</u> rachmodul <u>tmo_pruefungentestflug</u> rachmodul <u>tmo_pruefungentestfluggs</u> rachmodul <u>tmo_pruefauftraege</u> rachmodul <u>tmo_pruefauftraege</u> rachmodul <u>dhv_adressen</u> rachmodul <u>tmo_muster</u> rachmodul <u>tmo_musterfremd</u> rachmodul <u>tmo_pruefungsarten</u> rachmodul <u>dhv_adressenperson</u>			
rachmodul <u>tmo_pruefungentestflug</u> rachmodul <u>tmo_pruefungentestfluggs</u> rachmodul <u>tmo_pruefungentestfluggsltf09</u> rachmodul <u>tmo_pruefauftraege</u> rachmodul <u>dhv_adressen</u> rachmodul <u>tmo_muster</u> rachmodul <u>tmo_musterfremd</u> rachmodul <u>tmo_pruefungsarten</u> rachmodul <u>dhv_adressenperson</u>	rachmodul erg flusi		
rachmodul <u>tmo_pruefungentestfluggs</u> rachmodul <u>tmo_pruefungentestfluggsltf09</u> rachmodul <u>tmo_pruefauftraege</u> rachmodul <u>dhv_adressen</u> rachmodul <u>tmo_muster</u> rachmodul <u>tmo_musterfremd</u> rachmodul <u>tmo_pruefungsarten</u> rachmodul <u>dhv_adressenperson</u>			
rachmodul <u>tmo_pruefungentestfluggsltf09</u> rachmodul <u>tmo_pruefauftraege</u> rachmodul <u>dhv_adressen</u> rachmodul <u>tmo_muster</u> rachmodul <u>tmo_musterfremd</u> rachmodul <u>tmo_pruefungsarten</u> rachmodul <u>dhv_adressenperson</u>	rachmodul <u>tmo_pruefungen</u>		
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rachmodul <u>dhv_adressen</u> rachmodul <u>tmo_muster</u> rachmodul <u>tmo_musterfremd</u> rachmodul <u>tmo_pruefungsarten</u> rachmodul <u>dhv_adressenperson</u>	rachmodul <u>tmo_pruefungen</u> rachmodul <u>tmo_pruefungentestflug</u> rachmodul <u>tmo_pruefungentestfluggs</u>		
rachmodul <u>tmo_muster</u> rachmodul <u>tmo_musterfremd</u> rachmodul <u>tmo_pruefungsarten</u> rachmodul <u>dhv_adressenperson</u>	rachmodul <u>tmo_pruefungen</u> rachmodul <u>tmo_pruefungentestflug</u> rachmodul <u>tmo_pruefungentestfluggs</u> rachmodul <u>tmo_pruefungentestfluggsltf09</u>		
rachmodul <u>tmo_pruefungsarten</u> rachmodul <u>dhv_adressenperson</u>	rachmodul <u>tmo_pruefungen</u> rachmodul <u>tmo_pruefungentestflug</u> rachmodul <u>tmo_pruefungentestfluggs</u> rachmodul <u>tmo_pruefungentestfluggsltf09</u> rachmodul <u>tmo_pruefauftraege</u>		
prachmodul dhv adressenperson	prachmodul <u>tmo_pruefungen</u> prachmodul <u>tmo_pruefungentestflug</u> prachmodul <u>tmo_pruefungentestfluggs</u> prachmodul <u>tmo_pruefungentestfluggsltf09</u> prachmodul <u>tmo_pruefauftraege</u> prachmodul <u>dhv_adressen</u>		
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	prachmodul <u>tmo_pruefungen</u> prachmodul <u>tmo_pruefungentestflug</u> prachmodul <u>tmo_pruefungentestfluggs</u> prachmodul <u>tmo_pruefungentestfluggsltf09</u> prachmodul <u>tmo_pruefauftraege</u> prachmodul <u>dhv_adressen</u> prachmodul <u>tmo_muster</u> prachmodul <u>tmo_musterfremd</u> prachmodul <u>tmo_pruefungsarten</u>		

Sprachmodul <u>dhv\_adressenumsetzung</u> Sprachmodul <u>dhv\_adressen\_constants</u>