

RESULTS

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

GS TESTFLUG LTF 2009 MAC PARA CHARGER 28

Test No 027094 GSTF09-746-Beni

Test date 10.04.2015

Location Waalensee

Type Mac Para Charger 28

Test type GS Testflug LTF 2009

Test order Auftrag GS Musterprüfung Mac Para Charger 28 (MAC Para

Technology Ita)

Customer MAC Para Technology Itd

Test standard LTF NFL II-91/09 und NfL 2-60-14

Test standard 2 EN 926-2:2014

Expert Stocker

Result positive

Billing to: 100%

Technical peculiarities

13 Mark

Datum / Unterschrift (Beni Stocker)

RESULTS	
PG test flight (general)	
Take off weight [kg] 85	,
Weight limit for certification [kg] 85	
Number of pilots 1	
test pilot Beni Stocker	
Harness type SUP'AIR 02	
Harness category GH	
Minimum speed (km/h) 21	
Trim speed [km/h] 32	
Accelerated speed [km/h] 0	
Accelerator used? Yes	
Trímms -	
en : Klassifizierung	,
en : Klassifizierung 8	
EN : ERGEBNISDETAILS NACH LTF 2009	
1 Inflation/take-off	A
Rising behaviour Smooth, easy and constant rising	
Special take off technique required No	
2 Landing	А
Special landing technique required No	***************************************
3 Speeds in straight flight	A
5000 5000000 0000000000000000000000000	A
Trim speed more than 30 km/h Yes Speed range using the controls larger than Yes	
10 km/h	
Minimum speed Less than 25 km/h	
4 Control movement	A
Symmetric control pressure Increasing	
Symmetric control travel Greater than 60 cm	
Symmetric control draver dieater than on the	
5 Pitch stability exiting accelerated flight	А
Dive forward angle on exit Dive forward less than 30°	
Collapse occurs No	
6 Pitch stability operating controls during accelerated flight	A
Collapse occurs No	***************************************
9 Ball shahilitu and damaine	A
7 Roll stability and damping	Α
Oscillations Reducing	

8 Stability in gentie spirals		
Tendency to return to straight flight	Spontaneous exit	
· · · · · · · · · · · · · · · · · · ·		
9 Behaviour in a steeply banked turn		Α
Sink rate after two turns		
10.1 Symmetric front collapse		A
Entry	Rocking back less than 45°	
Recovery	Spontaneous in less than 3 s	
Dive forward angle on exit		
_	Entering a turn of less than 90°	
Cascade occurs	No	
10.2 Summerin front collange in agrees	rated flight	۸
10.2 Symmetric front collapse in accele		?
	Rocking back less than 45° Spontaneous in less than 3 s	
Dive forward angle on exit	·	
-	Entering a turn of less than 90°	
Cascade occurs	_	
11 Exiting deep stall (parachutal stall)		A
Deep stall achieved	Yes	
·	Spontaneous in less than 3 s	
Dive forward angle on exit	Dive forward 0° to 30°	
Change of course	Changing course less than 45°	
Cascade occurs	: No	
12 High angle of attack recovery		ΑΑ
-	Spontaneous in less than 3 s	
Cascade occurs	: No	
3.2.2		
13 Recovery from a developed full stall	.,,,, .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	А
Dive forward angle on exit		
-	No collapse	
Cascade occurs (other than collapses)	r Less than 45°	
_	Most lines tight	
Elite Certaio.	Those mass right	
14.1 Asymmetric collapse 45-50%		А
Change of course until re-inflation	Less than 90°	,
Maximum dive forward or roll angle		
Re-inflation behaviour	Spontaneous re-inflation	
Total change of course	Less than 360°	
Collapse on the opposite side occurs	; No	
Twist occurs	i No	
Cascade occurs	s No	
14.2 Asymmetric collapse 70-75%	000 - 1000	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	: No	
14.3 Asymmetric collapse 45-50% in ac	celerated flight	Α
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		
GUSCUGO OCCUPS		
14.4 Asymmetric collapse 70-75% in ac	celerated flight	В
Change of course until re-inflation		
Maximum dive forward or roll angle		
	r Spontaneous re-inflation	
Total change of course	Less than 360°	
Collapse on the opposite side occurs		
Twist occurs		
Cascade occurs	5 INO	

15 Directional control with a maintained	asymmetric collapse	A
Able to keep course		
180° turn away from the collapsed side		
possible in 10 s		
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	
16 Trim speed spin tendency		A
Spin occurs	No	
17 Low speed spin tendency		Α
Spin occurs	No	,-,,
1		
18 Recovery from a developed spin		Α
Spin rotation angle after release		
Cascade occurs	No	
19 B-line stall		Α
Change of course before release	Changing course less than 45°	
	Remains stable with straight span	
•	Spontaneous in less than 3 s	
Dive forward angle on exit		
Cascade occurs	No	
20 Big ears		Α
- 1	Dedicated controls	
Behaviour during big cars		
	Spontaneous in less than 3 s	
Dive forward angle on exit	,	
-		
21 Big ears in accelerated flight		Α
Entry procedure	Dedicated controls	
Behaviour during big ears		
	Spontaneous in less than 3 s	
Dive forward angle on exit		
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 con	trol	A
180° turn achievable in 20 s	Yes	
Stall or spin occurs	: No	
24 Any other flight procedure and/or c user's manual	onfiguration described in the	
	No other flight procedure or configuration described in the user's manual	