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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & LTF 91/09

Manufacturer Axis Paragl	ding Certi	Certification number		PG_1505.2019		
Address Nove Sady 3 602 00 Brno Czech Repu		t test	0	01.05.2019		
Glider model Pluto 4 M	Clas	sification	A	\		
Serial number 15900403M	Repr	esentative	R	Radek		
Trimmer no	•	e of test		'illeneuve		
Folding lines used no	1 140		•	illemedve		
Test pilot	Clau	de Thurnheer	Α	lain Zoller		
Harness	Supa	nir - Altiplume M	G	Gin Gliders - Gingo 2 L		
Harness to risers distance (cm)	43	/		3		
, ,						
Distance between risers (cm)	40			6		
Total weight in flight (kg)	75		1	00		
1. Inflation/Take-off	A					
Rising behaviour		th, easy and constant rising	A	Smooth, easy and constant rising	A	
Special take off technique required	No		Α	No	Α	
2. Landing	A			N		
Special landing technique required	No		Α	No	Α	
3. Speed in straight flight	A		۸	Vaa	^	
Trim speed more than 30 km/h	Yes Van		A	Yes	A	
Speed range using the controls larger than		han 25 km/h	A	Yes Less than 25 km/h	A A	
Minimum speed 4. Control movement	Less (Hall 25 KIII/II	Α	Less than 25 km/n	Α	
Max. weight in flight up to 80 kg	A					
Symmetric control pressure / travel	Incres	sing / greater than 55 cm	Α	not available	0	
Max. weight in flight 80 kg to 100 kg	morce	ising / greater than 55 cm	^	not available	U	
Symmetric control pressure / travel	not av	ailable	0	Increasing / greater than 60 cm	Α	
Max. weight in flight greater than 100 kg	1100 44	andoro	Ů	moreaching / greater than ee em	,,	
Symmetric control pressure / travel	not av	ailable	0	not available	0	
5. Pitch stability exiting accelerated flight						
Dive forward angle on exit		orward less than 30°	Α	Dive forward less than 30°	Α	
Collapse occurs	No		Α	No	Α	
6. Pitch stability operating controls durin flight	g accelerated A					
Collapse occurs	No		Α	No	Α	
7. Roll stability and damping	Α					
Oscillations	Reduc	sing	Α	Reducing	Α	
8. Stability in gentle spirals	Α					
Tendency to return to straight flight	·	aneous exit	Α	Spontaneous exit	Α	
9. Behaviour exiting a fully developed sp						
Initial response of glider (first 180°)		diate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α	
Tendency to return to straight flight		aneous exit (g force asing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	
Turn angle to recover normal flight	Less t	han 720°, spontaneous ery	Α	Less than 720°, spontaneous recovery	Α	
10. Symmetric front collapse	Α					
Approximately 30 % chord						
Entry	Rocki	ng back less than 45°	Α	Rocking back less than 45°	Α	
Recovery	C	aneous in less than 3 s	Α	Spontaneous in less than 3 s	Α	

Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	Α	Dive forward 0° to 30° Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	,,	No	,,
At least 50% chord	NO		NO	
	Dealing healt loss than 45°	۸	Decking book lose than 45°	٨
Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	Spontaneous in less than 3 s	Α.	Spontaneous in less than 3 s	A
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	, ,	No	, ,
11. Exiting deep stall (parachutal stall)	A			
	Yes	٨	Yes	٨
Deep stall achieved		A		Α
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Collapse	No collapse	Α	No collapse	Α
Cascade occurs (other than collapses)	No	Α	No	Α
Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	A		-	
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	Α	Less than 90° / Dive or roll angle 0° to 15°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of	Α	No (or only a small number of	Α
Conapse on the opposite side occurs	collapsed cells with a spontaneous reinflation)	٨	collapsed cells with a spontaneous reinflation)	^
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	Α	Less than 90° / Dive or roll angle	Α
roll angle	15° to 45°		15° to 45°	
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
Total change of course	Less than 360°	Α.	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	Α	Less than 90° / Dive or roll angle 0° to 15°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α

Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	Α	Yes	Α
180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	Α	More than 50 % of the symmetric control travel	Α
16. Trim speed spin tendency	Α			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	Α			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Cascade occurs	No	Α	No	Α
20. Big ears	A			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	A	- / \	Bive lorward of to co	,,
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	A
			Spontaneous in less than 3 s	
Recovery Dive forward angle on evit	Spontaneous in less than 3 s Dive forward 0° to 30°	Α	Dive forward 0° to 30°	A
Dive forward angle on exit Behaviour immediately after releasing the accelerator while	Stable flight	Α	Stable flight	A
maintaining big ears	, and the second	Α	Stable liight	Α
22. Alternative means of directional control	A		Vaa	
180° turn achievable in 20 s	Yes	A	Yes	A
Stall or spin occurs	No	Α	No	Α
23. Any other flight procedure and/or configuration described in the user's manual	0			
Procedure works as described	not available	0	not available	0
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0

24. Comments of test pilot