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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 Paragliding		Certification number	F	PG_1325.2018	
Address	Nove Sady 39 602 00 Brno Czech Republic	Flight test	0	02.10.2018	
Glider model	Venus SC M	Classification	C		
Serial number	56800402M	Representative	N	lone	
Trimmer		Place of test		/illeneuve	
	no	Flace of test	V	rillerleuve	
Folding lines used	no				
Test pilot		Claude Thurnheer	A	lain Zoller	
Harness		Icaro - Energy 2 L	C	Gin Gliders - Gingo 2 L	
Harness to risers distance (cm)		44	4	43	
• •		43		46	
Distance between risers (cm)			_		
Total weight in fligh	it (kg)	85	I	05	
1. Inflation/Take-off		В			
Rising behaviour		Smooth, easy and constant rising	Α	Easy rising, some pilot correction is required	В
Special take off technique	required	No	Α	No	Α
2. Landing		Α			
Special landing technique required		No	Α	No	Α
3. Speed in straight flight		В			
Trim speed more than 30 km/h		Yes	Α	Yes	Α
Speed range using the controls larger than 10 km/h		Yes	A	Yes	Α
Minimum speed		25 km/h to 30 km/h	В	Less than 25 km/h	Α
4. Control movement		Α			
Max. weight in flight up to 80 kg			•		•
Symmetric control pressure / travel		not available	0	not available	0
Max. weight in flight 80 kg to 100 kg		In any action of any other than 60 and	٨		^
Symmetric control pressur		Increasing / greater than 60 cm	Α	not available	0
Max. weight in flight greater than 100 kg		net eveileble	0	Increasing / greater than GE am	^
Symmetric control pressure / travel		not available	0	Increasing / greater than 65 cm	Α
5. Pitch stability exiting accelerated flight		A Dive forward less than 30°	۸	Dive forward less than 30°	۸
Dive forward angle on exit Collapse occurs		No	A	No	A A
•	ng controls during accelerated	A		NO	
Collapse occurs		No	Α	No	Α
7. Roll stability and dam	ping	A			
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spir	als	A		•	
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fu	lly developed spiral dive	c			
Initial response of glider (first 180°)		No immediate reaction	В	Immediate reduction of rate of turn	Α
Tendency to return to straight flight		Spontaneous exit (g force	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α
Tendency to return to stra		decreasing, rate of turn decreasing)			
Tendency to return to stra Turn angle to recover norr	nal flight	720° to 1 080°, spontaneous recovery	В	1080° to 1440°, spontaneous recovery	С
		720° to 1 080°, spontaneous	В		С
Turn angle to recover norr	apse	720° to 1 080°, spontaneous recovery	В		С

Deceyony	Chantanagua in leas than 2 a	۸	Chantanagua in laga than 2 a	۸
Recovery	Spontaneous in less than 3 s	A	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	,,
At least 50% chord	140		140	
	Dooking book loss than 45°	٨	Packing back loss than 45°	۸
Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	Spontaneous in less than 3 s	A	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			
Deep stall achieved	Yes	Α	Yes	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
Change of course	Changing course less than 45°	Α	Changing course less than 45°	A
Cascade occurs			No	
	No	Α	NO	Α
12. High angle of attack recovery	A Sportonoous in loss than 2 a	۸	Constant in last than 2 a	
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	B		D	
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 30° to 60°	В
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	С			
Small asymmetric collapse				
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 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
	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
Twist occurs	No	Α	No	Α
Cascade occurs			No	Α
	No	Α	110	$\overline{}$
Folding lines used	No No	Α	No	^
Folding lines used Large asymmetric collapse		Α		^
-		В		В
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or	No 90° to 180° / Dive or roll angle		No 90° to 180° / Dive or roll angle	
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	No 90° to 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of	В	No 90° to 180° / Dive or roll angle 15° to 45°	В
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour	No 90° to 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of	ВС	No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation	В
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course	No 90° to 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360°	ВСА	No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	B A A
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course	No 90° to 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous	ВСА	No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	B A A
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs	No 90° to 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	B C A	No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° Yes, no turn reversal	B A A C
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs	No 90° to 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	B C A A	No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° Yes, no turn reversal	B A A C
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	No 90° to 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	B C A A	No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° Yes, no turn reversal No No	B A A C
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used	No 90° to 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	B C A A	No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° Yes, no turn reversal No No	B A A C

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	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
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	Yes, no turn reversal	С
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
15. Directional control with a maintained asymmetric	Α			
collapse				
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	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	B	_	04	
Spin rotation angle after release	Stops spinning in 90° to 180°	В	Stops spinning in less than 90°	A
Cascade occurs 19. B-line stall	No A	Α	No	Α
Change of course before release	Changing course less than 45°	۸	Changing course less than 45°	Λ
Behaviour before release	Remains stable with straight span	A A	Remains stable with straight span	A A
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Cascade occurs	No		No	Α
20. Big ears	C	•		, ,
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Unstable flight	С	Stable flight	Α
Recovery	Spontaneous in less than 3 s	Α	Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	С			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Unstable flight	С	Stable flight	Α
Recovery	Spontaneous in less than 3 s	Α	Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	Α	Yes	Α
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

