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Flight test report: EN

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Manufacturer Address	Axis Paragliding Nove Sady 39	Certification number Date of flight test		PG_0507.2011 13. 03. 2012
	602 00 Brno Czech Republic	Jan		
Representative	None	Place of test		Villeneuve
Glider model	Comet XS	Classification		В
Trimmer	no			-
	10			
	Test pilot	Fukuoka Seiko		Dupont Philippe
	Harness	Sup air - Altiplume S		Sup'Air - Axess 2 air
	Total weight in flight (kg)	60		72
1. Inflation/Take-off		Α		
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising
Special take off technique	required	No	А	No
2. Landing		Α		
Special landing technique	required	No	А	No
3. Speed in straight fligh	it	Α		
Trim speed more than 30	km/h	Yes	А	Yes
Speed range using the co	ntrols larger than 10 km/h	Yes	А	Yes
Minimum speed		Less than 25 km/h	А	Less than 25 km/h
4. Control movement		Α		
Max. weight in flight up to	80 kg			
Symmetric control pressu	re / travel	Increasing / greater than 55 cm	А	Increasing / greater than 55 cm
Max. weight in flight 80 kg to 100 kg				
Symmetric control pressure / travel		not available	0	not available
Max. weight in flight greater than 100 kg				
Symmetric control pressure / travel		not available	0	not available
5. Pitch stability exiting accelerated flight		Α		
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°
Collapse occurs		No	А	No
6. Pitch stability operation flight	ng controls during accelerated	Α		
Collapse occurs		No	А	No
7. Roll stability and dam	ping	Α		
Oscillations		Reducing	А	Reducing
8. Stability in gentle spir	als	Α		
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit
9. Behaviour in a steeply	y banked turn	В		
Sink rate after two turns		More than 14 m/s	В	More than 14 m/s
10. Symmetric front coll	apse	В		
Entry		Rocking back less than 45°	А	Rocking back less than 45°
Recovery		Spontaneous in less than 3 s	А	Spontaneous in less than 3 s
Dive forward angle on exi	t / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course
Cascade occurs		No	А	No
With accelerator				
Entry		Rocking back less than 45°	А	Rocking back less than 45°
Recovery		Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s

Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Entering	А	Dive forward 0° to 30° / Keeping	А
	a turn of less than 90°	Λ	course	~
Cascade occurs	No	A	No	A
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	A
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Change of course	Changing course less than 45°	А	Changing course less than 45°	А
Cascade occurs	No	А	No	А
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	А	No	А
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	А	No	А
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	В			
With 50% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 50% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	Less than 90° / Dive or roll angle 15° to 45°	А
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	Α	No	A
Cascade occurs	No	Α	No	A
With 75% collapse and 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	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	Α	Less than 360°	A
Collapse on the opposite side occurs	No	A	No	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
15. Directional control with a maintained asymmetric	A	73		73
collapse				
Able to keep course	Yes	А	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	А
Amount of control range between turn and stall or spin	More than 50 % of the	А	More than 50 % of the symmetric	А
	symmetric control travel		control travel	

16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	А			
Spin rotation angle after release	Stops spinning in less than 90 $^\circ$	А	Stops spinning in less than 90°	А
Cascade occurs	No	А	No	А
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Cascade occurs	No	Α	No	А
20. Big ears	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	А
Behaviour during big ears	Stable flight	Α	Stable flight	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21. Big ears in accelerated flight	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	А
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	А
22. Behaviour exiting a steep spiral	Α			
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	А
Sink rate when evaluating spiral stability [m/s]	19		17	
23. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	А	Yes	А
Stall or spin occurs	No	Α	No	А
24. 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
25. Comments of test pilot				
Comments				