## AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

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Manufacturer Sky Paragliders a.s. C	Certification number	PG_1271.2017	
Address Okruzní 39 Fl 73911 Frýdlant nad Ostravicí Czech Republic	light test	04.12.2017	
Glider model Kudos M C	Classification	В	
	Representative	None	
	Place of test	Villeneuve	
	race or test	villerleuve	
Folding lines used no			
Test pilot C	Claude Thurnheer	Alain Zoller	
<b>Harness</b> S	Supair - Evo CX M	Gin Gliders - Gingo 2 L	
Harness to risers distance (cm) 44	4	43	
Distance between risers (cm) 40	.0	44	
Total weight in flight (kg) 74		94	
rotal weight in hight (kg)	4	94	
1. Inflation/Take-off A			
Rising behaviour Sr	smooth, easy and constant rising	A Smooth, easy and constant rising	Α
Special take off technique required No.	lo A	A No	Α
2. Landing A	<b>L</b>		
Special landing technique required No.		A No	Α
3. Speed in straight flight A			
•		A Yes	Α
		A Yes	Α.
•		A Less than 25 km/h	Α
4. Control movement A	L .		
	•		
Max. weight in flight up to 80 kg		A not available	0
Max. weight in flight up to 80 kg Symmetric control pressure / travel		A not available	0
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg	ncreasing / greater than 55 cm		
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  no			0 A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg	ot available	O Increasing / greater than 60 cm	Α
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel	ot available		
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight	ot available 0 ot available 0	Increasing / greater than 60 cm not available	A 0
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight	ot available	O Increasing / greater than 60 cm	A 0 A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit	ot available  ot available  ot available  ot available  otive forward less than 30°  A	Increasing / greater than 60 cm not available  Dive forward less than 30°	A 0 A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit  Collapse occurs  6. Pitch stability operating controls during accelerated	ot available ot available ot enter than 55 cm of available ot available of ot available	Increasing / greater than 60 cm not available  Dive forward less than 30°	A 0 A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit  Collapse occurs  6. Pitch stability operating controls during accelerated flight	ot available  ot available  ot available  otive forward less than 30°  Allo	Increasing / greater than 60 cm not available Dive forward less than 30° No	A 0 A A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit  Collapse occurs  6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping	ot available  ot available  ot available  ot ive forward less than 30°  A	Increasing / greater than 60 cm not available Dive forward less than 30° No	A 0 A A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit  Collapse occurs  6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping	ot available  ot available  ot available  oive forward less than 30°  Allo  Al	Increasing / greater than 60 cm  not available  Dive forward less than 30°  No  No	A 0 A A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit  Collapse occurs  6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping  Oscillations  8. Stability in gentle spirals	ot available  ot available  ot available  otive forward less than 30°  do  do  deducing	Increasing / greater than 60 cm  not available  Dive forward less than 30°  No  No	A 0 A A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit  Collapse occurs  6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping  Oscillations  8. Stability in gentle spirals	ot available  ot available  ot available  otive forward less than 30°  do  do  do  deducing  depontaneous exit	Increasing / greater than 60 cm  not available  Dive forward less than 30°  No  No  Reducing	A 0 A A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit  Collapse occurs  6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping  Oscillations  8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour exiting a fully developed spiral dive	ot available  ot available  ot available  oive forward less than 30°  do  deducing  depontaneous exit	Increasing / greater than 60 cm  not available  Dive forward less than 30°  No  No  Reducing	A 0 A A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit  Collapse occurs  6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping  Oscillations  8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour exiting a fully developed spiral dive  Initial response of glider (first 180°)  Tendency to return to straight flight	ot available  ot available  ot available  otive forward less than 30°  do  deducing  depontaneous exit  ammediate reduction of rate of turn	Increasing / greater than 60 cm  not available  Dive forward less than 30°  No  No  Reducing  Spontaneous exit	A 0 A A A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit  Collapse occurs  6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping  Oscillations  8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour exiting a fully developed spiral dive  Initial response of glider (first 180°)  Tendency to return to straight flight  Spirate of the stability of the spiral flight  Collapse occurs  A control of the spiral flight  Spirate of the spiral flight  Collapse occurs  A control of the spiral flight  Spirate of the spiral flight  Collapse occurs  A control of the spiral flight  Spirate occurs  A control of the spiral flight  Collapse occurs  A collapse occurs  A control of the spiral flight  Collapse occurs  A collapse occu	ot available  ot available  ot available  otive forward less than 30°  do  do  do  do  do  do  do  do  do  d	Increasing / greater than 60 cm  not available  Dive forward less than 30°  No  No  Reducing  Spontaneous exit  Immediate reduction of rate of turn Spontaneous exit (g force	A 0 A A A A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit  Collapse occurs  6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping  Oscillations  8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour exiting a fully developed spiral dive  Initial response of glider (first 180°)  Tendency to return to straight flight  Spiral accelerated flight  Spiral accelerated flight  Accelerated flight  Spiral accelerated flight  Spiral accelerated flight	ot available  ot available  ot available  ot varilable  otive forward less than 30°  do  do  do  do  do  do  do  do  do  d	Increasing / greater than 60 cm  not available  Dive forward less than 30°  No  No  Reducing  Spontaneous exit  Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery	A 0 A A A A
Max. weight in flight up to 80 kg  Symmetric control pressure / travel  Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  Max. weight in flight greater than 100 kg  Symmetric control pressure / travel  5. Pitch stability exiting accelerated flight  Dive forward angle on exit  Collapse occurs  6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping  Oscillations  8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour exiting a fully developed spiral dive  Initial response of glider (first 180°)  Tendency to return to straight flight  Claration of the present of glider (first 180°)  Tendency to return to straight flight  Claratic front collapse  A claratic front collapse	ot available  ot available  ot available  ot varilable  otive forward less than 30°  do  do  deducing  depontaneous exit  frommediate reduction of rate of turn  depontaneous exit (g force ecreasing, rate of turn decreasing)  ess than 720°, spontaneous ecovery	Increasing / greater than 60 cm  not available  Dive forward less than 30°  No  Reducing  Spontaneous exit  Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A 0 A A A 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				
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	
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°	Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	A		NO	А
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No	A	No	A
	A	^	NO	^
13. Recovery from a developed full stall	Dive forward 0° to 30°	٨	Dive forward 0° to 30°	۸
Dive forward angle on exit		A		A
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	A	Less than 45°	A
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	В			
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 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				
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	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
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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	$90^{\circ}$ to $180^{\circ}$ / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	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	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	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	A			
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	Α			
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
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		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