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Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes







In accordance with standards EN 926- 1:2015, EN 926-2:2013+A1:2021 and NfL 2- 565-20 Date of issue (DMY):	PG_2188.2023 12.07.2023
Manufacturer:	Apco Aviation Ltd.
Model:	NESTRA S
Serial number:	Pr1014

Configuration during flight tests

Parag	glide	r									A	Acces	sorie	s								
Maxir	num	weigl	nt in f	light ((kg)			8	30		F	Range	of sp	eed s	syste	m (cr	n)				12.4	
Minim	num v	veigh	t in fl	ight (l	kg)			e	60		S	speed	rang	e usir	ng bra	akes	(km/ł	ı)			13	
Glide	r's we	eight	(kg)					4	4.5		Т	otal s	peed	rang	e with	n acc	essoi	ries (l	km/h))	23	
Numb	per of	riser	S					3	3+1		F	Range	of tri	mme	rs (cn	n)					0	
Proje	cted a	area	(m2)					1	19.64													
Harn	ess u	ised	for te	esting	j (ma	x we	ight)				h	nspec	tions	s (wh	ichev	er ha	ppen	s firs	t)			
Harne	ess ty	/pe							ABS		е	very y	/ear o	or afte	er 150)h fly	ing tir	ne				
Harne	ess b	rand							Niviu Glide	••	V	Warning! Before use refer to user's manual						al				
Harne	ess m	nodel						ł	K onv	ers N		Person or company having presented the glider for testing: None										
Harne	ess to	o risei	rs dis	tance	(cm))		4	14													
Dista	nce b	etwe	en ris	ers (cm)			4	14													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
В	Α	В	Α	Α	Α	Α	Α	в	в	Α	Α	В	В	Α	Α	Α	в	0	в	в	Α	0

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013+A1:2021* & NfL 2-565-20

-										
Manufacturer	Apco Aviation Ltd.	Certification number	F	PG_2188.2023						
Address Chalamish 7, Caesarea Industrial Park 3088900 Caesarea Israel		Flight test	 24.05.2023							
Glider model	NESTRA S	Classification	Е	3						
Serial number	Pr1014	Representative		B						
		•		None						
Trimmer	no	Place of test	V	<i>'illeneuve</i>						
Folding lines used	no									
Test pilot		Philippe Dupont	C	Claude Thurnheer						
Harness		Woody Valley - Wani Light 2 S	Ν	liviuk Gliders - Konvers M						
Harness to risers d	istance (cm)	41	4	4						
Distance between r	isers (cm)	40	4	4						
Total weight in fligh	· · ·	60	8	0						
1. Inflation/Take-off		В								
Rising behaviour		Easy rising, some pilot correction is	в	Easy rising, some pilot correction is	в					
Special take off technique	required	required No	Δ	required No	A					
2. Landing		A	~		7					
Special landing technique	required	No	А	No	А					
3. Speed in straight fligh		В	~		,,					
Trim speed more than 30		Yes	А	Yes	A					
	ntrols larger than 10 km/h	Yes	A	Yes	A					
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В					
4. Control movement		A								
Max. weight in flight up	to 80 kg									
Symmetric control pressu		Increasing / greater than 55 cm	А	Increasing / greater than 55 cm	A					
Max. weight in flight 80										
Symmetric control pressu		not available	0	not available	0					
Max. weight in flight gre	ater than 100 kg									
Symmetric control pressu	re / travel	not available	0	not available	0					
5. Pitch stability exiting	accelerated flight	Α								
Dive forward angle on exi	t	Dive forward less than 30°	А	Dive forward less than 30°	А					
Collapse occurs		No	А	No	A					
flight	ng controls during accelerated	Α								
Collapse occurs		No	Α	No	A					
7. Roll stability and dam	ping	Α								
Oscillations	-	Reducing	Α	Reducing	A					
8. Stability in gentle spin	als	Α								
Tendency to return to stra	• •	Spontaneous exit	A	Spontaneous exit	A					
-	Illy developed spiral dive	B	А							
Initial response of glider (1		Immediate reduction of rate of turn	No immediate reaction	B						
Tendency to return to stra	light flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A					
Turn angle to recover nor	mal flight	Less than 720°, spontaneous recovery	Α	720° to 1 080°, spontaneous recovery	В					

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Approximately 30 % chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	A
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping	A	Dive forward 0° to 30° Keeping	A
Bive forward angle of exit onlange of course	course	~	course	~
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
With accelerator				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	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
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	A	No	A
13. Recovery from a developed full stall	В			
Dive forward angle on exit	Dive forward 30° to 60°	В	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	B			
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°	А	Less than 90° / Dive or roll angle 0° to 15°	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 (or only a small number of	А	No (or only a small number of	А
· · · · · · · · · · · · · · · · · · ·	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	Α	No	А
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle	В	90° to 180° / Dive or roll angle 15° to 45°	В
De inflation hehevieur	15° to 45°			۸
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course		A A	Spontaneous re-inflation Less than 360°	A
	Spontaneous re-inflation		•	
Total change of course	Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous	А	Less than 360° No (or only a small number of collapsed cells with a spontaneous	А
Total change of course Collapse on the opposite side occurs	Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A	Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A
Total change of course Collapse on the opposite side occurs Twist occurs	Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A	Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A
Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A A A	Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A A

Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	А	Less than 90° / Dive or roll angle	А
roll angle	15° to 45°		15° to 45°	
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	Α	No	А
Folding lines used	No	Α	No	А
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	А
Total change of course	Less than 360°	Α	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	Α	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	Α	No	А
15. Directional control with a maintained asymmetric	Α			
collapse	Var	۸	Vee	^
Able to keep course	Yes	A	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	A
16. Trim speed spin tendency	A			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	В			
Spin rotation angle after release	Stops spinning in 90° to 180°	В	Stops spinning in 90° to 180°	В
Cascade occurs	No	Α	No	А
19. B-line stall	0			
Change of course before release	not available	0	not available	0
Behaviour before release	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Cascade occurs	not available	0	not available	0
20. Big ears	В			
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	A	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
21. Big ears in accelerated flight	В			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Recovery through pilot action in less than a further 3 s	В	Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	А	Yes	А
Stall or spin occurs	No	А	No	А
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

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24. Comments of test pilot