## AIR TURQUOISE SA | PARA-TEST.COM

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_2142.2023 12.07.2023
Manufacturer:	Apco Aviation Ltd.
Model:	NESTRA M
Serial number:	Proto1011

## Configuration during flight tests

Parag	glide	r									А	cces	sorie	s										
Maximum weight in flight (kg)						96			F	Range of speed system (cm)									12.7					
Minim	num v	veigh	t in fl	ight (l	kg)			7	76		S	Speed range using brakes (km/h)										13		
Glide	r's we	eight	(kg)					4	4.8		Т	Total speed range with accessories (km/h)							)	23				
Numb	oer of	riser	s					3	3+1		F	ange	of tri	mme	rs (cn	n)					0			
Proje	cted a	area	(m2)					2	21.09															
Harne	ess u	ised	for te	esting	ı (ma	x we	ight)				Ir	nspec	tions	s (wh	ichev	er ha	ppen	s firs	t)					
Harne	ess ty	pe					• /	ABS					every year or after 150h flying time											
Harne	ess b	rand							Nood /alle		V	Warning! Before use refer to user's manual												
Harne	ess m	odel								Wani LightPerson or company having presented the2 Mglider for testing: None														
Harne	ess to	rise	s dis	tance	(cm)	)		4	13															
Distar	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	Α	Α	Α	Α	Α	Α	Α	в	Α	Α	Α	в	Α	Α	Α	в	0	в	Α	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_2142.2023		
Address	Chalamish 7, Caesarea Industrial Park 3088900 Caesarea Israel	Flight test	1	3.02.2023		
Glider model	NESTRA M	Classification	E	3		
Serial number	Proto1011	Representative		lone		
		Place of test				
	no	Place of test	V	<i>(illeneuve</i>		
Folding lines used	no					
Test pilot		Claude Thurnheer	A	lexandre Jofresa		
Harness		Woody Valley - Wani Light 2 M	V	Voody Valley - Wani Light 2 M		
Harness to risers d	istance (cm)	43	4	3		
Distance between r	isers (cm)	40	4	4		
Total weight in fligh		76		6		
. e.a. noight in ingi	·· (··ə/		0	~		
1. Inflation/Take-off		В				
Rising behaviour		Easy rising, some pilot correction is required	В	Easy rising, some pilot correction is required	В	
Special take off technique	required	No	А	No	А	
2. Landing		Α				
Special landing technique	required	No	А	No	Α	
3. Speed in straight fligh	t	А				
Trim speed more than 30	km/h	Yes	А	Yes	A	
Speed range using the co	ntrols larger than 10 km/h	Yes	А	Yes	A	
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	A	
4. Control movement		Α				
Max. weight in flight up						
Symmetric control pressu		Increasing / greater than 55 cm	A	not available	0	
Max. weight in flight 80						
Symmetric control pressu		not available	0	Increasing / greater than 60 cm	A	
Max. weight in flight gre			•		•	
Symmetric control pressu		not available	0	not available	0	
5. Pitch stability exiting		A				
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30°	A	
Collapse occurs		No	A	No	A	
flight	ng controls during accelerated	Α				
Collapse occurs		No	A	No	A	
7. Roll stability and dam	ping	A				
Oscillations		Reducing	A	Reducing	A	
8. Stability in gentle spir		A				
Tendency to return to stra	0 0	Spontaneous exit	A	Spontaneous exit	A	
-	Ily developed spiral dive	A				
Initial response of glider (f		Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	A A	
Tendency to return to stra	ignt flight	Spontaneous exit (g force decreasing)				
Turn angle to recover nor	nal flight	Less than 720°, spontaneous recovery	А	Less than 720°, spontaneous recovery	A	

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Approximately 30 % chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
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	A	Dive forward 0° to 30° Keeping	A
	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 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
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	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	A	No	A
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse	В			
Small asymmetric collapse 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°		0° to 15°	
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	A
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)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
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	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 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	Α
Folding lines used	No No	A A	No No	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	A
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°	А	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	А	No	А
Folding lines used	No	А	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	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 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	А	No	А
Folding lines used	No	А	No	А
15. Directional control with a maintained asymmetric	Α			
collapse				
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	А	More than 50 % of the symmetric control travel	A
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	В			
Spin rotation angle after release	Stops spinning in 90° to 180°	В	Stops spinning in less than 90°	А
Cascade occurs	No	А	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	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in 3 s to 5 s	В
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	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in 3 s to 5 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	А	Stable flight	А
22. Alternative means of directional control	A			
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				
dependent in the upperty manual	0			
described in the user's manual		0	not available	0
Procedure works as described	not available	0	not available	0
Procedure works as described Procedure suitable for novice pilots	not available not available	0	not available	0
Procedure works as described	not available			

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