FTR - Flight Test Report Dieser Prütbericht darf ohne schriftliche Zustimmung der EAPR nicht, auch nic

Manufacturer	swing	Type testing No.	EAPR-GS-0563/16	
	Swing Flugsportgeräte GmbH An der Leiten 4 D-82290 Landsberied	serial number	296-99127	
Model	Apus RS 14	I a a a ki a m	Monte Baldo	
Comment		Location	Gardasee	



Rev. 2.3 - 26.11.2014 EAPR GmbH - Marktstr. 11 D-87730 Bad Grönenbach - Germany

Date of testing	28.10.2016	Minimum take off v 55 kg	veight	Maximum take off weight 90 kg		
Testpilot				Mike Küng		
Harness		EAPR Testequipment		EAPR-Testequipment		
Pilot's take off weig	ht	65 kg		90 kg		





Test-criteria		Minimum take off weight	Evaluation	Maximum take off weight	Evaluatio		
1. Inflation / take-off - 4.4.1							
Rising behavior		no pilot correction required	А	no pilot correction required	Α		
Special take off technique required		No	Α	No			
2. Landing - 4.4.2		1.0	, , ,	1.0	А		
Special landing technique required		No	l A	No	Α		
3. Speeds in straight flight - 4.4.3		110		1.0			
Trim speed more than 30km/h		Yes	l A	Yes	A		
·							
Speed range using the controls larger than 10km/h		Yes	Α	Yes	Α		
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h			
4. Control movement - 4.4.4							
Max. weight in flight up to 80kg		Increasing 40cm - 55cm		-			
Max. weight in flight 80 to 100kg			-	Increasing 35cm - 45cm	D		
Max. weight in flight greater than 100kg			-		-		
5. Pitch stability exiting accelerated flight - 4.4	1.5		<u>'</u>				
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30°	Α		
Collapse occurs		No	Α	No	Α		
6. Pitch stability operating controls during acc	elerated	light - 4.4.6					
Collapse occurs		No	Α	A No			
7. Roll stability and damping - 4.4.7							
Oscillations Reducing			Α	Reducing			
8. Stability in gentle spirals - 4.4.8							
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit			
9. Behaviour exiting a fully developed spiral d	ive - 4.4.)					
Initial response of glider (first 180°)		No immediate reaction	В	No immediate reaction	В		
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit			
Turn angle to recover normal flight		720° to 1080°, spontaneous recovery	В	1080° to 1440°, spontaneous recovery	С		
10. Symmetric front collapse - 4.4.10							
Folding lines used		No		No No			
Entry	30%	Rocking back less than 45°	A	Rocking back less than 45°	Α		
Recovery	200	Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	Α		
Dive forward angle on exit	trim speed	30° - 60° Keeping course	В	30° - 60° Entering a turn of less than 90°	В		
Cascade occurs	草	No	Α	No	Α		
Entry	> 20%	Rocking back less than 45°	Α	Rocking back less than 45°	Α		
Recovery	< paeds	Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	Α		
Dive forward angle on exit	- Si	30° - 60° Keeping course	В	30° - 60° Entering a turn of less than 90°	В		
Cascade occurs		No	A	No	Α		
Entry	%09	Rocking back less than 45°	A	Rocking back less than 45°	Α		
Recovery	rated >	Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	Α		
Dive forward angle on exit	aocele	30° - 60° Entering a turn of less than		30° - 60° Entering a turn of less than 90°	В		
Cascade occurs		INO	A	No	Α		
11. Exiting deep stall (parachutal stall) - 4.4.1		LVaa		Lya			
Deep stall achieved		Yes		Yes			
Recovery		Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec			
Dive forward angle on exit		30° - 60°	В	30° - 60°			
Dive forward angle on exit Change of course		Changing course less than 45°	A	Changing course less than 45°	B A		

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12. High angle of attack recovery - 4.4.12									
Recovery	Spontaneous in	less than 3 sec		Α	Spontaneous in less than 3 sec			А	
Cascade occurs		No		Α	No			A	
13. Recovery from a developed full stall - 4.4.1									
Dive forward angle on exit		30° - 60°		B A	60° - 90°			C A	
Collapse Cascade occurs (other than collapse)		No collapse No			A	No collapse No			A
Rocking backward Line tension		Greater than 45	j°		C A	Less than 45° Most lines tight			A
14. Asymmetric collapse (trim speed) - 4.4.14	Most lines tight		A	Wost lines tight			А		
Folding lines used		No				No			
Change of course until re-inflation	9	< 90°	Dive or roll angle	15° - 45°	Α	90° - 180°	Dive or roll angle	45° - 60°	С
Re-inflation behavior	trim speed, max 50% collapse	Spontaneous re-inflation			Α	Spontaneous re	-inflation	l	Α
Total change of course	trim speed c 50% colla	Less than 360°			A	Less than 360°	mation		A
Collapse on the opposite side occurs	trim ax 50	No		Α	No			Α	
Twist occurs Cascade occurs	Ε	No No		A	No No			A	
Change of course until re-inflation		90° - 180°	Dive or roll angle	15° - 45°	В	180° - 360°	Dive or roll angle	45° - 60°	C
-	d, lapse						<u> </u>		
Re-inflation behavior	trim speed, max 75% collapse	Spontaneous re	-inflation		Α	Spontaneous re	-inflation		Α
Total change of course Collapse on the opposite side occurs	trim s x 75%	Less than 360°		A	Less than 360° No No			A	
Twist occurs	max	No		Α				Α	
Cascade occurs		No			Α	No			Α
Change of course until re-inflation	e e	90° - 180°	Dive or roll angle	45° - 60°	С	90° - 180°	Dive or roll angle	45° - 60°	С
Re-inflation behavior	ted, ollaps	Spontaneous re	-inflation	i	Α	Spontaneous re	-inflation	i	Α
Total change of course	accelerated, max 50% collapse	Less than 360°	············		A	Less than 360°	αισι		A
Collapse on the opposite side occurs	ассі ах 50	No			Α	No			Α
Twist occurs Cascade occurs	Ĕ	No No			A	No No			A
Change of course until re-inflation		90° - 180°	Dive or roll angle	60° - 90°	D	180° - 360°	Dive or roll angle	60° - 90°	D
Change of course until re-initation	d, apse	30 - 100	Dive of foil angle	00 - 90	D	100 - 300	Dive of foil angle	00 - 30	D
Re-inflation behavior	ratec	Spontaneous re	-inflation		Α	Spontaneous re	-inflation		Α
Total change of course	accelerated, max 75% collapse	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	a max	No No			A	No No			A
Cascade occurs		No			Α	No			Α
15. Directional control with a maintained asymmetric Able to keep course straight	netric col	lapse - 4.4.15 Yes			А	Yes			A
	10 000	Yes		A	Yes			A	
100 turn away from the collapsed side possible in	80° turn away from the collapsed side possible in 10 sec		res						A
Amount of control range between turn and stall or s	spin	25% to 50% of the symmetric control travel			С	25% to 50% of	С		
16. Trim speed spin tendency - 4.4.16									
Spin occurs	No			Α	No			Α	
17. Low speed spin tendency - 4.4.17 Spin occurs	No		Α	No			А		
18. Recovery from a developed spin - 4.4.18		110				110			
Spin rotation angle after release		Stops spinning in 90° to 180°		С	Stops spinning in less than 90°			Α	
Cascade occurs		No		A	No			A	
19. B-line-stall - 4.4.19			110						
Change of course before release		Changing course less than 45°		Α	Changing course less than 45°			Α	
Behaviour before release	Behaviour before release		Remains stable with straight span		Α	Remains stable with straight span			Α
Recovery		Spontaneous in less than 3 sec		Α	Spontaneous in less than 3 sec			А	
Dive forward angle on exit	•		30° - 60°		A	60° - 90°			C
Cascade occurs		No - 80		A	No So			Ā	
20. Big ears - 4.4.20									
Entry procedure		Standard technique		Α	Standard technique			Α	
Behaviour during big ears	Behaviour during big ears		Stable flight		Α	Stable flight			Α
Recovery		Spontaneous in less than 3 sec		Α	Spontaneous in less than 3 sec			Α	
Dive forward angle on exit		0° - 30°			Α	0° bis 30°			А
21. Big Ears in accelerated flight - 4.4.21									
Entry procedure		Standard technique		Α	Standard technique			Α	
Behaviour during big ears		Stable flight		Α	Stable flight			Α	
Recovery		Spontaneous in less than 3 sec		Α	Spontaneous in less than 3 sec			Α	
Dive forward angle on exit		0° - 30°		Α	0° bis 30°			Α	
Behaviour immediately after releasing the accelarator while maintaining big ears		Stable flight		Α	Stable flight			Α	
23. Alternative means of directional control - 4	.4.22								
180° turn achievable in 20 sec	Yes		Α	Yes			Α		
Stall or spin occurs	No			Α	No			Α	
23. Any other flight procedure and/or configura	ation desc	cribed in the use	r's manual - 4.4.2	23					
Procedure works as descibed Procedure suitable for novice pilots			-		NA NA				NA NA
Cascade occurs	<u> </u>		NA NA				NA NA		
24. Remarks of testpilot:		1				1			
I		L				L			

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