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BEHAVIOUR AT MAX WEIGHT

Clubs

TECHNICAL DATA DHY TESTREPORT LTF DATASHEET PRINT





DHV TESTREPORT LTF



SWING NYOS 2 RS S

Type designation Swing Nyos 2 RS S

Type test reference no DHV GS-01-2678-22

Holder of certification Swing Flugsportgeräte GmbH

Manufacturer Swing Flugsportgeräte GmbH **Classification** B

Winch towing Yes

Number of seats min / max 1/1

Accelerator Yes

BEHAVIOUR AT MIN WEIGHT IN





Beni Stocker

No release

Inflation/take-off A

Josef Bauer No release

Rising behaviour Smooth, easy and constant rising

Easy rising, some pilot correction is

No

<u>Landing</u>

Special take off technique required No

Special landing technique required No

Speeds in straight flight A Trim speed more than 30 km/h Yes Yes

Speed range using the controls larger than 10 km/h Yes Yes

Minimum speed Less than 25 km/h Less than 25 km/h

Control movement A

Symmetric control pressure Increasing Increasing Symmetric control travel Greater than 55 cm Greater than 60 cm

Pitch stability exiting accelerated flight A

Dive forward angle on exit Dive forward less than 30° Dive forward less than 30°

Collapse occurs No

Pitch stability operating controls during

accelerated flight Collapse occurs No

Roll stability and damping A

Oscillations Reducing Reducina

Stability in gentle spirals A

Tendency to return to straight flight Spontaneous exit Spontaneous exit

Behaviour exiting a fully developed spiral dive B

Initial response of glider (first 180°) en : keine unmittelbare Reaktion en : keine unmittelbare Reaktion Tendency to return to straight flight Spontaneous exit (g force decreasing, rate of Spontaneous exit (g force decreasing,

turn decreasing) rate of turn decreasing)

Turn angle to recover normal flight 720° to 1 080°, spontaneous recovery Less than 720°, spontaneous recovery

Symmetric front collapse A

Entry Rocking back less than 45° Rocking back less than 45°

Recovery Spontaneous in less than 3 s Spontaneous in less than 3 s

Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° to 30°

Change of course Entering a turn of less than 90° Keeping course

Cascade occurs No Folding lines used no no

	1-	I.
Unaccelerated collapse (at least 50 % chord) Fntr	A Rocking back less than 45°	Rocking back less than 45°
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exi		Dive forward 0° to 30°
	Entering a turn of less than 90°	Keeping course
Cascade occurs Folding lines use		No no
rolang mes asc	110	
Accelerated collapse (at least 50 % chord)	В	A
Entr	Rocking back less than 45°	Rocking back less than 45°
	Spontaneous in 3 s to 5 s	Spontaneous in less than 3 s
Dive forward angle on exi	t Dive forward 0° to 30° Entering a turn of less than 90°	Dive forward 0° to 30° Keeping course
Cascade occurs	-	No
Folding lines used	i no	no
	1-	!_
Exiting deep stall (parachutal stall)	<u>:A</u>	B
Deep stall achieved	1 Yes y Spontaneous in less than 3 s	Yes
Dive forward angle on exi	•	Spontaneous in less than 3 s Dive forward 30° to 60°
_	Changing course less than 45°	Changing course less than 45°
Cascade occur	s No	No
Web and a father to a comme	t.	1.
<u>High angle of attack recovery</u>	iA	iA
•	/ Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occur	• UVU	No
Recovery from a developed full stall	В	В
Dive forward angle on exi	t Dive forward 30° to 60°	Dive forward 30° to 60°
_	No collapse	No collapse
Cascade occurs (other than collapses		No
_	c Less than 45° n Most lines tight	Less than 45° Most lines tight
Line tension	Prost lines tight	Plost lifes tight
Small asymmetric collapse	Α	А
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle	_	Dive or roll angle 15° to 45°
	r Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	S No (or only a small number of collapsed cells	Less than 360° No (or only a small number of collapsed
conspec on the appointed state occur.	with a spontaneous re inflation)	cells with a spontaneous re inflation)
Twist occur		No
Cascade occur: Folding lines use		No no
rolang mes ass.		
Large asymmetric collapse	В	В
Change of course until re-inflation	90° to 180°	90° to 180°
Maximum dive forward or roll angle	_	Dive or roll angle 15° to 45°
Re-inflation behaviou Total change of course	r Spontaneous re-inflation	Spontaneous re-inflation Less than 360°
	s No (or only a small number of collapsed cells	No (or only a small number of collapsed
	with a spontaneous re inflation)	cells with a spontaneous re inflation)
Twist occur: Cascade occur:		No No
Folding lines used		No no
-		
Small asymmetric collapse accelerated	i a	
About 1	¦A	A
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle	i Less than 90° Dive or roll angle 15° to 45°	Less than 90° Dive or roll angle 15° to 45°
Maximum dive forward or roll angle	i Less than 90° e Dive or roll angle 15° to 45° r Spontaneous re-inflation	Less than 90°
Maximum dive forward or roll angl Re-inflation behaviou Total change of course	in Less than 90° In Less than 90° In Dive or roll angle 15° to 45° In Spontaneous re-inflation In Less than 360° In No (or only a small number of collapsed cells	Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed
Maximum dive forward or roll angl Re-inflation behaviou Total change of cours Collapse on the opposite side occur	in Less than 90° In Less than 90° In Dive or roll angle 15° to 45° In Spontaneous re-inflation Le Less than 360° In No (or only a small number of collapsed cells with a spontaneous re inflation)	Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)
Maximum dive forward or roll angl Re-inflation behaviou Total change of course	in Less than 90° In Less than 90° In Less than 90° In Spontaneous re-inflation In Less than 360° In No (or only a small number of collapsed cells with a spontaneous re inflation) In No	Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed
Maximum dive forward or roll angl Re-inflation behaviou Total change of cours Collapse on the opposite side occur Twist occur	in Less than 90° In Less than 90° In Less than 90° In Spontaneous re-inflation In Less than 360° In No (or only a small number of collapsed cells with a spontaneous re inflation) In No	Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No
Maximum dive forward or roll angle Re-inflation behaviou Total change of course Collapse on the opposite side occur Twist occur Cascade occur Folding lines used	in Less than 90° In Less than 90° In Less than 90° In Spontaneous re-inflation In Less than 360° In No (or only a small number of collapsed cells with a spontaneous re inflation) In No In No In No	Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No
Maximum dive forward or roll angle Re-inflation behaviou Total change of course Collapse on the opposite side occur Twist occur Cascade occur Folding lines used	Less than 90° Dive or roll angle 15° to 45° r Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No	Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No no
Maximum dive forward or roll angle Re-inflation behaviou Total change of course Collapse on the opposite side occur Twist occur Cascade occur Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation	in Less than 90° in Less than 90° in Dive or roll angle 15° to 45° in Spontaneous re-inflation in Less than 360° is No (or only a small number of collapsed cells with a spontaneous re inflation) is No	Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No no B 90° to 180°
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Trim speed spin tendency	A	A	
Spin occur	s No	No	
It am an and anti- hands an	i.	i.	
Low speed spin tendency	A	A	
Spin occur	s No	No	
Recovery from a developed spin	A	A	
Spin rotation angle after release	Stops spinning in less than 90°	Stops spinning in less than 90°	
Cascade occur	s No	No	
B-line stall	A	Α	
Change of course before release	changing course less than 45°	Changing course less than 45°	
Behaviour before release	Remains stable with straight span	Remains stable with straight span	
Recover	Spontaneous in less than 3 s	Spontaneous in less than 3 s	
Dive forward angle on exi	t Dive forward 0° to 30°	Dive forward 0° to 30°	
Cascade occur	s No	No	
Big ears	A	A	
Entry procedure	Dedicated controls	Standard technique	
Behaviour during big ear	s Stable flight	Stable flight	
Recover	Spontaneous in less than 3 s	Spontaneous in less than 3 s	
Dive forward angle on exi	t Dive forward 0° to 30°	Dive forward 0° to 30°	
Big ears in accelerated flight	A	la.	
\ 		iA	
* *	e Dedicated controls	Standard technique	
Behaviour during big ear		Stable flight	
	Spontaneous in less than 3 s	Spontaneous in less than 3 s	
Dive forward angle on exi		Dive forward 0° to 30°	
Behaviour immediately after releasing the accelerator while maintaining big ear:		Stable flight	
accelerator wille maintaining big ear.	•		
Alternative means of directional control	A	A	
180° turn achievable in 20	s Yes	Yes	
Stall or spin occur	s No	No	
Any other flight procedure and/or configuration described in the user's manual			
No other flight procedure or configuration described in the user's manual			

No other flight procedure or configuration described in the user's manual