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Clubs

TECHNICAL DATA DHY TESTREPORT LTF DATASHEET PARTS LIST OPERATING INSTRUCTION PRINT



DHV TESTREPORT LTF

SWING SPHERA RS SM Type designation SWING Sphera RS SM

Type test reference no DHV GS-01-2682-22

Holder of certification Swing Flugsportgeräte GmbH

Manufacturer Swing Flugsportgeräte GmbH

Classification D

Winch towing Yes

Number of seats min / max 1/1Accelerator Yes

BEHAVIOUR AT MIN WEIGHT IN FLIGHT (85KG)

Test pilots



BEHAVIOUR AT MAX WEIGHT IN FLIGHT (100KG)



Mario Eder No release

Josef Bauer No release

Special take off technique required No

Inflation/take-off C Rising behaviour Overshoots, shall be slowed down to avoid a

Overshoots, shall be slowed down to

avoid a front collapse

<u>Landing</u>

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 C

Symmetric control pressure Increasing Increasing Symmetric control travel 45 cm to 60 cm 45 cm to 60 cm

Pitch stability exiting accelerated flight A

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

Collapse occurs No

Collapse occurs No

Pitch stability operating controls during

Α accelerated flight

Roll stability and damping A

Oscillations Reducing Reducing

Stability in gentle spirals A Spontaneous exit Tendency to return to straight flight Spontaneous exit

Behaviour exiting a fully developed spiral dive A

Initial response of glider (first 180°) Immediate reduction of rate of turn Immediate reduction of rate of turn

Tendency to return to straight flight Spontaneous exit (g force decreasing, rate of turn decreasing)

rate of turn decreasing) Turn angle to recover normal flight Less than 720°, spontaneous recovery Less than 720°, spontaneous recovery

Symmetric front collapse D

Entry Rocking back less than 45°

Recovery Recovery through pilot action in less than a

Dive forward angle on exit Dive forward 30° to 60°

Change of course Entering a turn of less than 90°

Cascade occurs No

Folding lines used yes

Rocking back less than 45° Spontaneous in less than 3 s

Dive forward 30° to 60°

Spontaneous exit (g force decreasing,

Entering a turn of less than 90°

yes

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·		С	С
·	Able to keep course	Yes	Yes

10 s

Amount of control range between turn and stall or		25 % to 50 % of the symmetric control travel	
Trim speed spin tendency	A	A	
Spin occurs	s No	No	
Low speed spin tendency	A	A	
Spin occurs	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 occurs	s No	No	
B-line stall			
Not carried out because the manoeuvre is excluded in the user's manual			
	1	1	
Big ears	В	В	
Entry procedure	Standard technique	Standard technique	
Behaviour during big ears	3	Stable flight	
Recovery	Recovery through pilot action in less than a further 3 s	Recovery through pilot action in less than a further 3 s	
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°	
Big ears in accelerated flight	В	В	
<u> </u>	i	<u>i</u>	
Entry procedure Behaviour during big ears	Standard technique	Standard technique Stable flight	
	Recovery through pilot action in less than a	Recovery through pilot action in less	
Necover,	further 3 s	than a further 3 s	
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°	
Behaviour immediately after releasing the accelerator while maintaining big ears		Stable flight	
Alternative means of directional control	A	A	
180° turn achievable in 20 s	Yes	Yes	
Stall or spin occurs	: No	No	
	110	140	

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