Deutscher Hängegleiterverband e.V.

Ноте



DHV-tested Equipment

Flying Equipment Database

Manufacturers / Dealers

Fly

TECHNICAL DATA DHY TESTREPORT LTF DHY TESTREPORT EN DATASHEET PARTS LIST OPERATING INSTRUCTION

DHV TESTREPORT LTF 2009



SWING ARCUS 7.26

Type designation Swing Arcus 7.26

Type test reference no DHV GS-01-1986-12

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 FLIGHT (80KG)

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (105KG)



Beni Stocker

Harry Buntz

Inflation/take-off	The manufacturer does not want the videos of this test flight to be published. A	The manufacturer has agreed to publish the videos of this test flight. A
	Rising behaviour Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off to	chnique required No	No
<u>Landing</u>	A	Α
Special landing to	echnique required No	No
Speeds in straight flight	А	Α
Trim speed more than 30 km/h Yes		Yes
Speed range using the controls larg	ger than 10 km/h Yes	Yes
	Minimum speed Less than 25 km/h	Less than 25 km/h
Control movement	A	A
Symmetric	control pressure Increasing	Increasing
Symme	tric control travel Greater than 60 cm	Greater than 65 cm

Symmetric control travel Greater than 60 cm Greater than 65 cm

Pitch stability exiting accelerated flight	Α	Α
Dive fewered and a co	wit Dive femurand less than 200	Dive femuend le

Dive forward angle on exit Dive forward less than 30° Dive forward less than 30° $\,$ Collapse occurs No No

Pitch stability operating controls during Α Α accelerated flight Collapse occurs No No

Oscillations Reducing Reducing Reducin	ng
Stability in gentle spirals A A	
<u> </u>	neous exit
Behaviour in a steeply banked turn	
Sink rate after two turns Up to 12 m/s 12 m/s	to 14 m/s
Symmetric front collapse A A	
Recovery Spontaneous in less than 3 s Spontar Dive forward angle on exit Dive forward 0° to 30° Dive for	g back less than 45° neous in less than 3 s rward 0° to 30° g course
Symmetric front collapse in accelerated flight B	
Recovery Spontaneous in 3 s to 5 s Spontan Dive forward angle on exit Dive forward 0° to 30° Dive for	g back less than 45° neous in less than 3 s rward 0° to 30° g course
Exiting deep stall (parachutal stall) A A	
Dive forward angle on exit Dive forward 0° to 30° Dive for	neous in less than 3 s rward 0° to 30° ng course less than 45°
High angle of attack recovery A A	
	neous in less than 3 s
Cascade occurs No No	
Recovery from a developed full stall A	
Dive forward angle on exit Dive forward 0° to 30° Dive for	rward 0° to 30°
Collapse No collapse No collapse Cascade occurs (other than collapses) No No No	apse
Rocking back Less than 45° Less tha	an 45° nes tight
Asymmetric collapse 45-50% A A	
Re-inflation behaviour Spontaneous re-inflation Spontar	an 90° roll angle 0° to 15° neous re-inflation an 360°
Asymmetric collanse 70-75%	
Asymmetric collapse 70-75% A A	an 90° roll angle 0° to 15°
	noous ro-inflation
Maximum dive forward or roll angle Dive or roll angle 15° to 45° Dive or Re-inflation behaviour Spontaneous re-inflation Spontaneous re-inflation Spontaneous re-inflation Collapse of course Less than 360° Less that Collapse on the opposite side occurs No No No	neous re-inflation an 360°
Maximum dive forward or roll angle Dive or roll angle 15° to 45° Dive or Re-inflation behaviour Spontaneous re-inflation Spontar Total change of course Less than 360° Less that Collapse on the opposite side occurs No No	
Maximum dive forward or roll angle Dive or roll angle 15° to 45° Re-inflation behaviour Spontaneous re-inflation Total change of course Less than 360° Less that Collapse on the opposite side occurs No Twist occurs No Cascade occurs No No Asymmetric collapse 45-50% in accelerated flight Change of course until re-inflation Less than 90° Less that	an 360°

Collapse on the opposite side occurs	No	No
Twist occurs	No	No
Cascade occurs	No	No
Asymmetric collapse 70-75% in accelerated	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°	Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occurs		No
Twist occurs Cascade occurs		No
Cascade occurs	NO	No
Directional control with a maintained asymmetric collapse	А	A
Able to keep course	Yes	Yes
180° turn away from the collapsed side possible in 10 s	Yes	Yes
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	More than 50 % of the symmetric control travel
Trim speed spin tendency	A	A
Spin occurs	No	No
Low speed spin tendency	А	A
Spin occurs	No	No
Recovery from a developed spin	А	A
Spin rotation angle after release	Stops spinning in less than 90°	Stops spinning in less than 90°
Cascade occurs	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
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 30° to 60°
Cascade occurs	No	No
<u>Big ears</u>	А	A
Entry procedure	Dedicated controls	Dedicated controls
Behaviour during big ears		Stable flight
	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°
Big ears in accelerated flight	В	A
	Dedicated controls	Dedicated controls
Behaviour during big ears		Stable flight
	Recovery through pilot action in less than a further 3 s	Spontaneous in less than 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
Behaviour exiting a steep spiral	A	A
Tendency to return to straight flight	Spontaneous exit	Spontaneous exit
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Less than 720°, spontaneous recover
Sink rate when evaluating spiral stability [m/s]	14	14
Alternative means of directional control	Α	Α
180° turn achievable in 20 s	Yes	Yes
Stall or spin occurs	No	No
Any other flight procedure and/or configuratio	n described in the user's manual	
No other flight procedure or configuration described in the		

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

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