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## DHV TESTREPORT LTF



SWING MITO 2 RS XS

Type designation SWING Mito 2 RS XS Type test reference no DHV GS-01-2673-22

Holder of certification Swing Flugsportgeräte GmbH Manufacturer Swing Flugsportgeräte GmbH

Classification A Winch towing Yes

Number of seats min / max  $\ 1\ /\ 1$ 

Accelerator Yes

BEHAVIOUR AT MIN WEIGHT IN FLIGHT (55KG)

Test pilots



BEHAVIOUR AT MAX WEIGHT IN FLIGHT (72KG)



Beni Stocker

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	A A
	Gudrun Öchsl

	dudi dii Ociisi	Belli Stocker
Expert	Josef Bauer	
	No release	No release
Inflation/take-off	A	A
Picing hehavious	· Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique required		No
<u>Landing</u>	A	A
Special landing technique required	No	No
	1	1
Speeds in straight flight	¦A	¦A
Trim speed more than 30 km/h	Yes	Yes
Speed range using the controls larger than 10 km/h		Yes
Minimum speed	Less than 25 km/h	Less than 25 km/h
Control movement	A	A
L	177	1
Symmetric control pressure Symmetric control travel		Increasing Greater than 55 cm
Symmetric control travel	Greater than 55 th	Greater than 33 cm
Pitch stability exiting accelerated flight	A	A
Dive forward angle on exit	: Dive forward less than 30°	Dive forward less than 30°
Collapse occurs		No
	1	1
Pitch stability operating controls during accelerated flight	A	A
	<u> </u>	<u>i</u>
Collapse occurs	s No	No
Roll stability and damping	A	A
L	1	1
Oscillations	Reducing	Reducing
Stability in gentle spirals	A	A
Tendency to return to straight flight	: Spontaneous exit	Spontaneous exit
	•	•
Behaviour exiting a fully developed spiral dive	A	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	Spontaneous exit (g force decreasing,
Turn andle to receive a second file to	turn decreasing)	rate of turn decreasing)
lurn angle to recover normal flight	: Less than 720°, spontaneous recovery	Less than 720°, spontaneous recovery
Symmetric front collapse	A	A
Entra	Pocking back less than 45°	Pocking back less than 45°

Entry Rocking back less than 45° **Recovery** Spontaneous in less than 3 s Dive forward angle on exit Dive forward  $0^{\circ}$  to  $30^{\circ}$ Change of course Keeping course

Cascade occurs No Folding lines used no

Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30°  $\,$ Entering a turn of less than  $90\ensuremath{^\circ}$ No no

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Unaccelerated collapse (at least 50 % chord)	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 exit	•	Dive forward 0° to 30°
Change of course	Keeping course	Entering a turn of less than 90°
Cascade occurs		No
Folding lines used	no	no
Accelerated collapse (at least 50 % chord)	A	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°
Change of course	, ,	Entering a turn of less than 90°
Cascade occurs Folding lines used		No no
, ording intestation		
Exiting deep stall (parachutal stall)	A	A
Deep stall achieved	Yes	Yes
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	: Dive forward 0° to 30° : Changing course less than 45°	Dive forward 0° to 30° Changing course less than 45°
Cascade occurs		No
High angle of attack recovery	A	A
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs	s No	No
Recovery from a developed full stall	A	A
Dive forward angle on exit	: Dive forward 0° to 30°	Dive forward 0° to 30°
_	No collapse	No collapse
Cascade occurs (other than collapses)		No
_	Less than 45°	Less than 45°
Line tension	Most lines tight	Most lines tight
Small asymmetric collapse	A	A
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle	Dive or roll angle 0° to 15°	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 (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs	: No	No
Cascade occurs		No
Folding lines used	no	no
Large asymmetric collapse	Α	Α
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°	Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	e Less than 360° s No (or only a small number of collapsed cells	Less than 360° No (or only a small number of collapsed
Conapse on the opposite side occurs	with a spontaneous re inflation)	cells with a spontaneous re inflation)
Twist occurs	: No	No
Cascade occurs		No
Folding lines used	no	no
Small asymmetric collapse accelerated	A	A
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°
	Spontaneous re-inflation	Spontaneous re-inflation Less than 360°
Total change of course Collapse on the opposite side occurs	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 occurs		No
Cascade occurs Folding lines used		No no
	· · · · ·	
Large asymmetric collapse accelerated	A	A
Change of course until re-inflation		Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
Re-inflation behaviour Total change of course	· Spontaneous re-inflation · Less than 360°	Spontaneous re-inflation Less than 360°
_	No (or only a small number of collapsed cells	No (or only a small number of collapsed
work at	with a spontaneous re inflation)	cells with a spontaneous re inflation)
Twist occurs Cascade occurs		No No
Folding lines used		no
Directional control with a maintained	A	A
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asymmetric collapse	<u> </u>	
Able to keep course  180° turn away from the collapsed side possible in		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	
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	LA .	A	
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 0° to 30°	Dive forward 0° to 30°	
Cascade occurs	s No	No	
<u>Big ears</u>	A	A	
Entry procedure	Standard technique	Dedicated controls	
Behaviour during big ears	Stable flight	Stable flight	
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	
Dive forward angle on exit	t Dive forward 0° to 30°	Dive forward 0° to 30°	
Big ears in accelerated flight	A	A	
Entry procedure	Standard technique	Dedicated controls	
Behaviour during big ears	Stable flight	Stable flight	
Recovery	Spontaneous in less than 3 s	Spontaneous in 3 s to 5 s	
Dive forward angle on exit	t 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	
Alternative means of directional control  180° turn achievable in 20 s	A s Yes	A Yes	
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No other flight procedure or configuration described in the user's manual