



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  
**Trimmers** No



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (65KG)

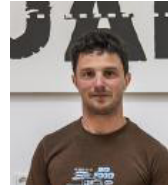
BEHAVIOUR AT MAX WEIGHT IN FLIGHT (90KG)

Test pilots



**Beni Stocker**

No release



**Josef Bauer**

No release

Inflation/take-off

**Rising behaviour** Smooth, easy and constant rising

Easy rising, some pilot correction is required

**Special take off technique required** No

No

Landing

**Special landing technique required** No

No

Speeds in straight flight

**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

**Symmetric control pressure** Increasing

Increasing

**Symmetric control travel** Greater than 55 cm

Greater than 60 cm

Pitch stability exiting accelerated flight

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

Dive forward less than 30°

**Collapse occurs** No

No

Pitch stability operating controls during accelerated flight

**Collapse occurs** No

No

Roll stability and damping

**Oscillations** Reducing

Reducing

Stability in gentle spirals

**Tendency to return to straight flight** Spontaneous exit

Spontaneous exit

Behaviour exiting a fully developed spiral dive

**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 turn decreasing)

Spontaneous exit (g force 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

**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

No

**Folding lines used** no

no

<b>Unaccelerated collapse (at least 50 % chord)</b>	<b>A</b>	<b>A</b>
<b>Entry</b> Rocking back less than 45°		Rocking back less than 45°
<b>Recovery</b> Spontaneous in less than 3 s		Spontaneous in less than 3 s
<b>Dive forward angle on exit</b> Dive forward 0° to 30°		Dive forward 0° to 30°
<b>Change of course</b> Entering a turn of less than 90°		Keeping course
<b>Cascade occurs</b> No		No
<b>Folding lines used</b> no		no
<b>Accelerated collapse (at least 50 % chord)</b>	<b>B</b>	<b>A</b>
<b>Entry</b> Rocking back less than 45°		Rocking back less than 45°
<b>Recovery</b> Spontaneous in 3 s to 5 s		Spontaneous in less than 3 s
<b>Dive forward angle on exit</b> Dive forward 0° to 30°		Dive forward 0° to 30°
<b>Change of course</b> Entering a turn of less than 90°		Keeping course
<b>Cascade occurs</b> No		No
<b>Folding lines used</b> no		no
<b>Exiting deep stall (parachutal stall)</b>	<b>A</b>	<b>B</b>
<b>Deep stall achieved</b> Yes		Yes
<b>Recovery</b> Spontaneous in less than 3 s		Spontaneous in less than 3 s
<b>Dive forward angle on exit</b> Dive forward 0° to 30°		Dive forward 30° to 60°
<b>Change of course</b> Changing course less than 45°		Changing course less than 45°
<b>Cascade occurs</b> No		No
<b>High angle of attack recovery</b>	<b>A</b>	<b>A</b>
<b>Recovery</b> Spontaneous in less than 3 s		Spontaneous in less than 3 s
<b>Cascade occurs</b> No		No
<b>Recovery from a developed full stall</b>	<b>B</b>	<b>B</b>
<b>Dive forward angle on exit</b> Dive forward 30° to 60°		Dive forward 30° to 60°
<b>Collapse</b> No collapse		No collapse
<b>Cascade occurs (other than collapses)</b> No		No
<b>Rocking back</b> Less than 45°		Less than 45°
<b>Line tension</b> Most lines tight		Most lines tight
<b>Small asymmetric collapse</b>	<b>A</b>	<b>A</b>
<b>Change of course until re-inflation</b> Less than 90°		Less than 90°
<b>Maximum dive forward or roll angle</b> Dive or roll angle 15° to 45°		Dive or roll angle 15° to 45°
<b>Re-inflation behaviour</b> Spontaneous re-inflation		Spontaneous re-inflation
<b>Total change of course</b> Less than 360°		Less than 360°
<b>Collapse on the opposite side occurs</b> 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)
<b>Twist occurs</b> No		No
<b>Cascade occurs</b> No		No
<b>Folding lines used</b> no		no
<b>Large asymmetric collapse</b>	<b>B</b>	<b>B</b>
<b>Change of course until re-inflation</b> 90° to 180°		90° to 180°
<b>Maximum dive forward or roll angle</b> Dive or roll angle 15° to 45°		Dive or roll angle 15° to 45°
<b>Re-inflation behaviour</b> Spontaneous re-inflation		Spontaneous re-inflation
<b>Total change of course</b> Less than 360°		Less than 360°
<b>Collapse on the opposite side occurs</b> 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)
<b>Twist occurs</b> No		No
<b>Cascade occurs</b> No		No
<b>Folding lines used</b> no		no
<b>Small asymmetric collapse accelerated</b>	<b>A</b>	<b>A</b>
<b>Change of course until re-inflation</b> Less than 90°		Less than 90°
<b>Maximum dive forward or roll angle</b> Dive or roll angle 15° to 45°		Dive or roll angle 15° to 45°
<b>Re-inflation behaviour</b> Spontaneous re-inflation		Spontaneous re-inflation
<b>Total change of course</b> Less than 360°		Less than 360°
<b>Collapse on the opposite side occurs</b> 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)
<b>Twist occurs</b> No		No
<b>Cascade occurs</b> No		No
<b>Folding lines used</b> no		no
<b>Large asymmetric collapse accelerated</b>	<b>B</b>	<b>B</b>
<b>Change of course until re-inflation</b> 90° to 180°		90° to 180°
<b>Maximum dive forward or roll angle</b> Dive or roll angle 15° to 45°		Dive or roll angle 15° to 45°
<b>Re-inflation behaviour</b> Spontaneous re-inflation		Spontaneous re-inflation
<b>Total change of course</b> Less than 360°		Less than 360°
<b>Collapse on the opposite side occurs</b> 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)
<b>Twist occurs</b> No		No
<b>Cascade occurs</b> No		No
<b>Folding lines used</b> no		no
<b>Directional control with a maintained asymmetric collapse</b>	<b>A</b>	<b>A</b>
<b>Able to keep course</b> Yes		Yes
<b>180° turn away from the collapsed side possible in 10 s</b> Yes		Yes
<b>Amount of control range between turn and stall or spin</b> More than 50 % of the symmetric control travel		More than 50 % of the symmetric control travel

<b>Trim speed spin tendency</b>	<b>A</b>	<b>A</b>
Spin occurs	No	No
<b>Low speed spin tendency</b>	<b>A</b>	<b>A</b>
Spin occurs	No	No
<b>Recovery from a developed spin</b>	<b>A</b>	<b>A</b>
Spin rotation angle after release	Stops spinning in less than 90°	Stops spinning in less than 90°
Cascade occurs	No	No
<b>B-line stall</b>	<b>A</b>	<b>A</b>
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	No	No
<b>Big ears</b>	<b>A</b>	<b>A</b>
Entry procedure	Dedicated controls	Standard technique
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	Dive forward 0° to 30°	Dive forward 0° to 30°
<b>Big ears in accelerated flight</b>	<b>A</b>	<b>A</b>
Entry procedure	Dedicated controls	Standard technique
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	Dive forward 0° to 30°	Dive forward 0° to 30°
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Stable flight
<b>Alternative means of directional control</b>	<b>A</b>	<b>A</b>
180° turn achievable in 20 s	Yes	Yes
Stall or spin occurs	No	No
<b>Any other flight procedure and/or configuration described in the user's manual</b>		
No other flight procedure or configuration described in the user's manual		