**DHV** Databases

PRINT TECHNICAL DATA DHV TESTREPORT LTF DATASHEET PARTS LIST OPERATING INSTRUCTION DHV TESTREPORT LTF

SKYWALK MESCAL 6 S	
Type designation	Skywalk Mescal 6 S
Type test reference no	DHV GS-01-2549-20
Holder of certification	Skywalk GmbH & Co. KG
Manufacturer	Skywalk GmbH & Co. KG
Classification	A
Winch towing	Yes
Number of seats min / max	1 / 1
Accelerator	Yes
Trimmers	No



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Classification		
Winch towing		manufacture of the second seco
Number of seats min / max		
Accelerator Trimmers		
Trimmers	NO	
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		24 f f
	BEHAVIOUR AT MIN WEIGHT IN FLIGHT (75KG)	BEHAVIOUR AT MAX WEIGHT IN FLIGHT (95KG)
Test pilots	2	IN FEIGHT (35KG)
i cos piloto		
		2 = 0
	Pari Stanlar	Hanald Dunty
	Beni Stocker No release	Harald Buntz No release
Inflation/take-off	A	A
	<u>i</u>	<u> </u>
	Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique required	INO	No
Landing	A	A
<u>Landing</u>	<u>i</u>	
Special landing technique required	No	No
Chands in at a late (III to		
<u>Speeds in straight flight</u>	¦ <b>A</b>	¦ <b>A</b>
Trim speed more than 30 km/h		Yes
Speed range using the controls larger than 10		Yes
km/h		Loss than 25 km/h
Minimum speed	Less than 25 km/h	Less than 25 km/h
Control movement	A	A
	<u>i</u>	<u> </u>
Symmetric control pressure		Increasing
Symmetric control travel	Greater trian 55 cm	Greater than 60 cm
Pitch stability exiting accelerated flight	A	A
	<del></del>	i
Dive forward angle on exit		Dive forward less than 30°
Collapse occurs	NO	No
Pitch stability operating controls during	! !	
accelerated flight	<b>A</b>	A
Collapse occurs	No	No
Conapse occurs		No
Roll stability and damping	A	A
	•	:
	Poducing	Poducina
Oscillations	Reducing	Reducing
Oscillations	,	
Oscillations <u>Stability in gentle spirals</u>	<b></b>	A
Oscillations	<b></b>	
Oscillations  Stability in gentle spirals  Tendency to return to straight flight	Spontaneous exit	Spontaneous exit
Oscillations  Stability in gentle spirals  Tendency to return to straight flight  Behaviour exiting a fully developed spiral dive	Spontaneous exit	Spontaneous exit
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Recovery	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°
Change of course	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	s No	No
Folding lines used	<b>1</b> no	no
Exiting deep stall (parachutal stall)	A	A
Deep stall achieved	<b>1</b> Yes	Yes
Recovery	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°
Change of course	Changing course less than 45°	Changing course less than 45°
Cascade occurs	s No	No
<u>High angle of attack recovery</u>	A	A
Recovery	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 exi	t Dive forward 0° to 30°	Dive forward 0° to 30°
Collapse	No collapse	No collapse
Cascade occurs (other than collapses)	<b>)</b> No	No
Rocking back	Less than 45°	Less than 45°
Line tension	n Most lines tight	Most lines tight
Small asymmetric collapse	A	A
Change of course until re-inflation	Loss than 000	Less than 90°
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°

**Total change of course** Less than 360°

Twist occurs No

Cascade occurs No

Folding lines used no

Change of course until re-inflation Less than 90°

**Re-inflation behaviour** Spontaneous re-inflation

Large asymmetric collapse	A	Α
Change of course until re-inflation	Less than 90°	90° to 180°
Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Dive or roll angle 0° to 15°
Re-inflation behavious	r Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	Less than 360°	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 rinflation)
Twist occurs	s No	No
Cascade occurs	s No	No
Folding lines used	<b>I</b> 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°	Dive or roll angle 15° to 45°
Re-inflation behavious	r Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	Less than 360°	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 rinflation)
Twist occurs	5 No	No
Cascade occurs	5 No	No
Folding lines used	<b>I</b> no	no
Large asymmetric collapse accelerated	Α	A

**Collapse on the opposite side occurs** No (or only a small number of collapsed cells No (or only a small number of collapsed cells with a spontaneous re

Dive or roll angle 15° to 45°

Spontaneous re-inflation

Less than 360°

inflation)

90° to 180°

Α

Changing course less than 45°

Spontaneous in less than 3 s

Dedicated controls

Remains stable with straight span

No

No

no

Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Dive or roll angle 0° to 15°
Re-inflation behaviour	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	Less than 360°	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 reinflation)
Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	no	no
Directional control with a maintained asymmetric collapse	A	A
Able to keep course	Yes	Yes

180° turn away from the collapsed side possible i		Yes
Amount of control range between turn and stall o	or More than 50 % of the symmetric control n travel	More than 50 % of the symmetric control travel
Trim speed spin tendency	A	A
Spin occur	rs No	No
<u>Low speed spin tendency</u>	A	A
Spin occur	s No	No
Recovery from a developed spin	A	A
Spin rotation angle after releas	e Stops spinning in less than 90°	Stops spinning in less than 90°
Cascade occur	s No	No

Α

**Entry procedure** Dedicated controls

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

**Behaviour before release** Remains stable with straight span

**Change of course before release** Changing course less than 45°

**B-line stall** 

	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	Dedicated controls	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	Dive forward 0° to 30°	Dive forward 0° to 30°
Big ears in accelerate	ed flight	A	A

**Recovery** Spontaneous in less than 3 s

Behaviour during big ears Stable flight	Stable flight
<b>Recovery</b> Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s
Dive forward angle on exit Dive forward 0° to 30°	Dive forward 0° to 30°
Behaviour immediately after releasing the Stable flight 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