

APP 1

9

DHY	DHV-tested Equipment	Flying Equipment Database	Manufacturers / Dealers	Flying Schools	Clubs	
DHV Databases						
TECHNICAL DATA DHV TESTREPORT						DHY

Type designation Skywalk Mescal 6 XXS	
Type test reference no DHV GS-01-2551-20	
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	and the second s

	BEHAVIOUR AT MIN WEIGHT IN FLIGHT (55KG)	BEHAVIOUR AT MAX WEIGHT IN FLIGHT (75KG)
Test pilo	ts Fophia Putzer	Beni Stocker
Expe	rt Harald Buntz	

	Harald Buntz	
	Α	No release A
Rising behaviour Special take off technique required		Smooth, easy and constant rising No
Landing Special landing technique required		ANo
		A
Trim speed more than 30 km/h Speed range using the controls larger than 10		Yes Yes
km/h		Less than 25 km/h
		Α
Symmetric control pressure Symmetric control travel	-	Increasing Greater than 55 cm
		A
Dive forward angle on exit Collapse occurs		Dive forward less than 30° No
Pitch stability operating controls during accelerated flight	Α	Α
Collapse occurs	No	No
Roll stability and damping Oscillations		A Reducing
<u>Stability in gentle spirals</u>		A
Tendency to return to straight flight	Spontaneous exit	Spontaneous exit
Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)		A 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 Symmetric front collapse		Less than 720°, spontaneous recove
Entry	Rocking back less than 45°	Rocking back less than 45°
Dive forward angle on exit	Dive forward 0° to 30°	Spontaneous in less than 3 s Dive forward 0° to 30° Entering a turn of less than 90°
Cascade occurs Folding lines used	No	No no
<u>Unaccelerated collapse (at least 50 % chord)</u>		A
Entry	Rocking back less than 45°	Rocking back less than 45° Spontaneous in less than 3 s
Dive forward angle on exit Change of course	Dive forward 0° to 30° Entering a turn of less than 90°	Dive forward 0° to 30° Entering a turn of less than 90°
Cascade occurs Folding lines used		No no
		A
Recovery	Spontaneous in less than 3 s	Rocking back less than 45° Spontaneous in less than 3 s
Dive forward angle on exit Change of course Cascade occurs	Entering a turn of less than 90°	Dive forward 0° to 30° Entering a turn of less than 90° No
Folding lines used		no
<u>Exiting deep stall (parachutal stall)</u> Deep stall achieved		A Yes
Recovery Dive forward angle on exit	Spontaneous in less than 3 s Dive forward 0° to 30°	Spontaneous in less than 3 s Dive forward 0° to 30°
Change of course Cascade occurs		Changing course less than 45° No
High angle of attack recovery	Α	Α
Recovery Cascade occurs	-	Spontaneous in less than 3 s No
Recovery from a developed full stall	Α	Α
-	No collapse	Dive forward 0° to 30° No collapse
Cascade occurs (other than collapses) Rocking back	Less than 45°	No Less than 45° Most lines tight
Change of course until re-inflation Maximum dive forward or roll angle	Less than 90°	Less than 90° Dive or roll angle 0° to 15°
Re-inflation behaviour Total change of course	Spontaneous re-inflation	Spontaneous re-inflation Less than 360°
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous re inflation)	collapsed cells with a spontaneous re
Twist occurs Cascade occurs	No	inflation) No No
Folding lines used		no
Large asymmetric collapse Change of course until re-inflation		A Less than 90°
Maximum dive forward or roll angle Re-inflation behaviour	Dive or roll angle 0° to 15°	Dive or roll angle 15° to 45° Spontaneous re-inflation
	No (or only a small number of collapsed cells	
Twist occurs		collapsed cells with a spontaneous reinflation) No
Cascade occurs Folding lines used		No no
Small asymmetric collapse accelerated	Α	Α
Change of course until re-inflation Maximum dive forward or roll angle		Less than 90° Dive or roll angle 15° to 45°
Re-inflation behaviour Total change of course	Less than 360°	Spontaneous re-inflation Less than 360°
	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 Cascade occurs		No No
Folding lines used		no
Change of course until re-inflation	90° to 180°	A Less than 90°
Maximum dive forward or roll angle Re-inflation behaviour	Spontaneous re-inflation	Dive or roll angle 15° to 45° Spontaneous re-inflation
	No (or only a small number of collapsed cells with a spontaneous re inflation)	collapsed cells with a spontaneous re
Twist occurs	No	inflation) No
		No no
Cascade occurs Folding lines used		
Folding lines used Directional control with a maintained		Α
Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in	A Yes	A Yes Yes
Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or	A Yes Yes More than 50 % of the symmetric control	Yes Yes More than 50 % of the symmetric
Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin	A Yes Yes More than 50 % of the symmetric control travel	Yes Yes
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Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin Trim speed spin tendency Low speed spin tendency	A Yes Yes More than 50 % of the symmetric control travel A No	Yes Yes More than 50 % of the symmetric control travel A No
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Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin Trim speed spin tendency Spin occurs Low speed spin tendency Spin occurs Recovery from a developed spin Spin rotation angle after release Cascade occurs B-line stall Change of course before release Behaviour before release Recovery	A Yes Yes More than 50 % of the symmetric control travel A No A No A Stops spinning in less than 90° No A Changing course less than 90° No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No	Yes Yes More than 50 % of the symmetric control travel A No A No A Stops spinning in less than 90° No A Changing course less than 90° No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No
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