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

## SKYWALK MESCAL 6 M

Type designation Skywalk Mescal 6 M	
Type test reference no DHV GS-01-2548-20	
Holder of certification Skywalk GmbH & Co. KG	
Manufacturer Skywalk GmbH & Co. KG	
Classification A	
Winch towing Yes	
Number of seats min / max 1 / 1	AN AREAS
Accelerator Yes	
Trimmers No	



		BEHAVIOUR AT MAX WEIGHT IN FLIGHT (110KG)
Test pilots	Farald Buntz	Sebastian Mackrodt
-	No release	No release
<b>Rising behaviour</b> S Special take off technique required N		Smooth, easy and constant rising No
Landing Special landing technique required N	· · · · · · · · · · · · · · · · · · ·	<b>A</b> No
Speeds in straight flight		A
Trim speed more than 30 km/h Y Speed range using the controls larger than 10 Y km/h		Yes Yes
Minimum speed L	ess than 25 km/h	Less than 25 km/h
Control movement Symmetric control pressure I		<b>A</b> Increasing
Symmetric control travel G		Greater than 65 cm
Dive forward angle on exit Dive forward angle on exit D	Dive forward less than 30°	Dive forward less than 30° No
Pitch stability operating controls during		Α
accelerated flight Collapse occurs N		No
Roll stability and damping Oscillations R		<b>A</b> Reducing
Stability in gentle spirals		<b>A</b>
Tendency to return to straight flight S		Spontaneous exit
Behaviour exiting a fully developed spiral dive A Initial response of glider (first 180°)	mmediate reduction of rate of turn	A Immediate reduction of rate of turn
		Spontaneous exit (g force decreasing rate of turn decreasing) Less than 720°, spontaneous recove
Symmetric front collapse	A	Α
Recovery S	Spontaneous in less than 3 s	Rocking back less than 45° Spontaneous in less than 3 s
Dive forward angle on exit D Change of course E Cascade occurs N	Entering a turn of less than 90°	Dive forward 0° to 30° Entering a turn of less than 90° No
Folding lines used n	10	no
-	Rocking back less than 45°	A Rocking back less than 45° Spontaneous in less than 3 s
<b>Dive forward angle on exit</b> D	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 N Folding lines used n	lo	No no
Accelerated collapse (at least 50 % chord)	· · · · · · · · · · · · · · · · · · ·	<b>A</b> Rocking back less than 45°
-	Spontaneous in less than 3 s	Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30°
Change of course E Cascade occurs N	Entering a turn of less than 90° No	Entering a turn of less than 90° No
Folding lines used n Exiting deep stall (parachutal stall)		no A
Deep stall achieved Y Recovery S		Yes Spontaneous in less than 3 s
	Changing course less than 45°	Dive forward 0° to 30° Changing course less than 45°
Cascade occurs N High angle of attack recovery		No <b>A</b>
	Spontaneous in less than 3 s	Spontaneous in less than 3 s No
Recovery from a developed full stall	A	Α
Dive forward angle on exit D Collapse N	lo collapse	Dive forward 0° to 30° No collapse
Cascade occurs (other than collapses) N Rocking back L Line tension M	ess than 45°	No Less than 45° Most lines tight
Small asymmetric collapse	A	A
Change of course until re-inflation L Maximum dive forward or roll angle D	Dive or roll angle 15° to 45°	Less than 90° Dive or roll angle 15° to 45°
<b>Re-inflation behaviour</b> S <b>Total change of course</b> L <b>Collapse on the opposite side occurs</b> N	•	Spontaneous re-inflation Less than 360° No (or only a small number of
	vith a spontaneous re inflation)	collapsed cells with a spontaneous re inflation) No
Cascade occurs N Folding lines used n	lo	No no
Large asymmetric collapse	· · · · · · · · · · · · · · · · · · ·	Α
Change of course until re-inflation 9 Maximum dive forward or roll angle D Re-inflation behaviour S	Dive or roll angle 0° to 15°	Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation
<b>Total change of course</b> L Collapse on the opposite side occurs	Less than 360° No (or only a small number of collapsed cells	Less than 360° No (or only a small number of
M Twist occurs		collapsed cells with a spontaneous re inflation) No
Cascade occurs N Folding lines used n	•	No no
Small asymmetric collapse accelerated	· · · · · · · · · · · · · · · · · · ·	<b>A</b>
Change of course until re-inflation L Maximum dive forward or roll angle D Re-inflation behaviour S	Dive or roll angle 15° to 45°	Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation
	No (or only a small number of collapsed cells	
Twist occurs N		collapsed cells with a spontaneous re inflation) No
Cascade occurs N Folding lines used n	•	No no
Large asymmetric collapse accelerated Change of course until re-inflation 9	·	<b>A</b> Less than 90°
Maximum dive forward or roll angle D Re-inflation behaviour S	Dive or roll angle 0° to 15° Spontaneous re-inflation	Dive or roll angle 15° to 45° Spontaneous re-inflation
	No (or only a small number of collapsed cells	Less than 360° No (or only a small number of collapsed cells with a spontaneous re
Twist occurs N Cascade occurs N	10	inflation) No
Folding lines used n	•	No no
Directional control with a maintained asymmetric collapse		<b>A</b>
Able to keep course Y 180° turn away from the collapsed side possible in Y 10 s		Yes Yes
Amount of control range between turn and stall or M spin t	•	More than 50 % of the symmetric control travel
Trim speed spin tendency Spin occurs N	·	<b>A</b> No
Low speed spin tendency		A
Spin occurs N	No	No
		Α
Recovery from a developed spin Spin rotation angle after release S	Stops spinning in less than 90°	Stops spinning in less than 90°
Recovery from a developed spin	Stops spinning in less than 90° No	
Recovery from a developed spin       A         Spin rotation angle after release S       Cascade occurs N         B-line stall       A         Change of course before release C       C	Stops spinning in less than 90° No A Changing course less than 45°	Stops spinning in less than 90° No
Recovery from a developed spin       A         Spin rotation angle after release S       Cascade occurs N         Cascade occurs N       A         B-line stall       A         Change of course before release C       B         Behaviour before release R       Recovery S         Dive forward angle on exit D       A	Stops spinning in less than 90° No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	Stops spinning in 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°
Recovery from a developed spin       A         Spin rotation angle after release S       Cascade occurs N         B-line stall       A         Change of course before release C       B         Behaviour before release R       Recovery S         Dive forward angle on exit D       Cascade occurs N	Stops spinning in 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	Stops spinning in 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
Recovery from a developed spin       A         Spin rotation angle after release S       Cascade occurs         Cascade occurs       A         B-line stall       A         Change of course before release       C         Behaviour before release       R         Recovery       S         Dive forward angle on exit       C         Big ears       A         Entry procedure       C	Stops spinning in 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 A Dedicated controls	Stops spinning in 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 A Dedicated controls
Recovery from a developed spin       A         Spin rotation angle after release S       Cascade occurs         Cascade occurs       A         B-line stall       A         Change of course before release       C         Behaviour before release       R         Recovery       S         Dive forward angle on exit       C         Big ears       A         Entry procedure       C         Behaviour during big ears       S	Stops spinning in 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 A Dedicated controls Stable flight Spontaneous in less than 3 s	Stops spinning in 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
Recovery from a developed spin       A         Spin rotation angle after release S       Cascade occurs N         B-line stall       A         Change of course before release C       B         Behaviour before release R       Recovery S         Dive forward angle on exit D       Cascade occurs N         Big ears       A         Big ears       A         Recovery S       Cascade occurs N         Big ears       A         Recovery S       Cascade occurs N         Big ears       A         Cascade occurs N       Cascade occurs N         Big ears       A         Cascade occurs N       Cascade occurs N         Big ears       A         Cascade occurs N       Cascade occurs N         Big ears       A         Cascade occurs N       Cascade occurs N         Big ears       A         Cascade occurs N       Cascade occurs N         Behaviour during big ears S       Cascade occurs S         Secovery S       S	Stops spinning in 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 A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	Stops spinning in 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 A Dedicated controls Stable flight Spontaneous in less than 3 s
Recovery from a developed spin       A         Spin rotation angle after release S       Cascade occurs N         B-line stall       A         Change of course before release C       Behaviour before release R         Recovery S       Dive forward angle on exit D         Cascade occurs N       Cascade occurs N         Big ears       A         Big ears       A         Big ears in accelerated flight       A         Behaviour during big ears S       B         Big ears in accelerated flight       A         Entry procedure D       B         Behaviour during big ears S       S         Big ears in accelerated flight       A         Entry procedure D       S         Behaviour during big ears S       S         Solution of the second	Stops spinning in 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 A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight	Stops spinning in 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 A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight
Recovery from a developed spin       A         Spin rotation angle after release S       Cascade occurs N         B-line stall       A         Change of course before release C       Behaviour before release R         Recovery S       Dive forward angle on exit D         Cascade occurs N       Cascade occurs N         Big ears       A         Big ears       A         Big ears in accelerated flight       A         Big ears in accelerated flight       A         Dive forward angle on exit D       Behaviour during big ears S         Recovery S       Dive forward angle on exit D         Big ears in accelerated flight       A         Entry procedure D       Behaviour during big ears S         Recovery S       Dive forward angle on exit D         Dive forward angle on exit D       B         Big ears in accelerated flight       A         Entry procedure D       Behaviour during big ears S         Recovery S       Dive forward angle on exit D	Stops spinning in 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 A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30°	Stops spinning in 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 A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°
Recovery from a developed spin       A         Spin rotation angle after release S       Cascade occurs N         B-line stall       A         Change of course before release C       Behaviour before release R         Recovery S       Dive forward angle on exit D         Cascade occurs N       Cascade occurs N         Big ears       A         Big ears       A         Big ears in accelerated flight       A         Big ears in accelerated flight       A         Entry procedure D       Behaviour during big ears S         Recovery S       Dive forward angle on exit D         Big ears in accelerated flight       A         Entry procedure D       Behaviour during big ears S         Recovery S       Dive forward angle on exit D         Big ears in accelerated flight       A         Entry procedure D       Behaviour during big ears S         Recovery S       S         Behaviour during big ears S       S         Behaviour during big ears S       S         Sehaviour during big ears S	Stops spinning in 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 A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° Stable flight	Stops spinning in 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 A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in less than 3 s