

DHV TESTREPORT EN926-2:2014

MAC PARA PASHA 6 39

Type designation	MAC Para Pasha 6 39
Type test reference no	DHV GS-01-2300-17
Holder of certification	MAC Para Technology Ges.m.b.H.
Manufacturer	MAC Para Technology Ges.m.b.H.
Classification	B
Winch towing	Yes
Number of seats min / max	1 / 2
Accelerator	No
Trimmers	Yes



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (110KG)

Test pilots



Sebastian Mackrodt

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (190KG)



Harald Buntz

Inflation/take-off

A

A

Rising behaviour	Smooth, easy and constant rising
Special take off technique required	No

Rising behaviour	Smooth, easy and constant rising
Special take off technique required	No

Landing

A

A

Special landing technique required	No
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No

Speeds in straight flight

A

A

Trim speed more than 30 km/h	Yes
Speed range using the controls larger than 10 km/h	Yes
Minimum speed	Less than 25 km/h

Trim speed more than 30 km/h	Yes
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Control movement

A

A

Symmetric control pressure	Increasing
Symmetric control travel	Greater than 65 cm

Symmetric control pressure	Increasing
Symmetric control travel	Greater than 65 cm

Pitch stability exiting accelerated flight

Not carried out because the glider is not equipped with an accelerator

Pitch stability operating controls during accelerated flight

Not carried out because the glider is not equipped with an accelerator

Roll stability and damping

A

A

Oscillations	Reducing
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Reducing

Stability in gentle spirals

A

A

Tendency to return to straight flight	Spontaneous exit
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Spontaneous exit

en : Verhalten beim Verlassen einer vollständigen Steilspirale

A

B

en : Erstes Ansprechen des Gleitschirms (die ersten 180°)

en : unmittelbare Verringerung der Drehgeschwindigkeit

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Tendency to return to straight flight en : selbstständiges Ausleiten (G-Kraft abnehmend, Drehgeschwindigkeit abnehmend)

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Turn angle to recover normal flight Less than 720°, spontaneous recovery

720° to 1 080°, spontaneous recovery

Symmetric front collapse

A

A

Entry Rocking back less than 45°
Recovery Spontaneous in less than 3 s
Dive forward angle on exit Dive forward 0° to 30°
Change of course Keeping course
Cascade occurs No
en : Faltleinen wurden benutzt no

Rocking back less than 45°
Spontaneous in less than 3 s
Dive forward 0° to 30°
Keeping course
No
no

en : Symmetrischer Frontklapper mindestens 50% Flügeltiefe

B

A

Entry Rocking back less than 45°
Recovery Spontaneous in 3 s to 5 s
Dive forward angle on exit Dive forward 0° to 30°
Change of course Keeping course
Cascade occurs No
en : Faltleinen wurden benutzt no

Rocking back less than 45°
Spontaneous in less than 3 s
Dive forward 0° to 30°
Keeping course
No
no

en : Symmetrischer Frontklapper im beschleunigten Flug

Not carried out because the glider is not equipped with an accelerator

Exiting deep stall (parachutal stall)

A

A

Deep stall achieved Yes
Recovery Spontaneous in less than 3 s
Dive forward angle on exit Dive forward 0° to 30°
Change of course Changing course less than 45°
Cascade occurs No

Yes
Spontaneous in less than 3 s
Dive forward 0° to 30°
Changing course less than 45°
No

High angle of attack recovery

A

A

Recovery Spontaneous in less than 3 s
Cascade occurs No

Spontaneous in less than 3 s
No

Recovery from a developed full stall

A

B

Dive forward angle on exit Dive forward 0° to 30°
Collapse No collapse
Cascade occurs (other than collapses) No
Rocking back Less than 45°
Line tension Most lines tight

Dive forward 30° to 60°
No collapse
No
Less than 45°
Most lines tight

en : Kleiner einseitiger Klapper

A

A

Change of course until re-inflation Less than 90°
Maximum dive forward or roll angle Dive or roll angle 0° to 15°
Re-inflation behaviour Spontaneous re-inflation
Total change of course Less than 360°
Collapse on the opposite side occurs en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)
Twist occurs No
Cascade occurs No
en : Faltleinen wurden benutzt no

Less than 90°
Dive or roll angle 0° to 15°
Spontaneous re-inflation
Less than 360°
en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)
No
No
no

en : Großer einseitiger Klapper

B

B

Change of course until re-inflation 90° to 180°
Maximum dive forward or roll angle Dive or roll angle 15° to 45°
Re-inflation behaviour Spontaneous re-inflation
Total change of course Less than 360°
Collapse on the opposite side occurs en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)
Twist occurs No
Cascade occurs No
en : Faltleinen wurden benutzt no

90° to 180°
Dive or roll angle 15° to 45°
Spontaneous re-inflation
Less than 360°
en : Nein (oder nur eine kleine Anzahl von eingeklappten Zellen mit selbstständiger Wiederöffnung)
No
No
no

en : Kleiner einseitiger Klapper im beschleunigten Flug

Not carried out because the glider is not equipped with an accelerator

en : Großer einseitiger Klapper im beschleunigten Flug

Not carried out because the glider is not equipped with an accelerator

Directional control with a maintained asymmetric collapse

A

A

Able to keep course Yes
180° turn away from the collapsed side possible in 10 s Yes

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

A

Spin occurs No

No

Low speed spin tendency

A

A

Spin occurs 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 No

No

B-line stall

A

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 30° to 60°

Cascade occurs No

No

Big ears

B

B

Entry procedure Dedicated controls

Dedicated controls

Behaviour during big ears Stable flight

Stable flight

Recovery Recovery through pilot action in less than a further 3 s

Recovery through pilot action in less than a further 3 s

Dive forward angle on exit Dive forward 0° to 30°

Dive forward 0° to 30°

Big ears in accelerated flight

Not carried out because the glider is not equipped with an accelerator

Alternative means of directional control

A

A

180° turn achievable in 20 s Yes

Yes

Stall or spin occurs No

No

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