



## DHV TESTREPORT LTF

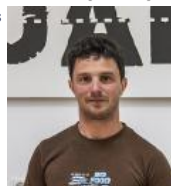
## ICARO PICA2 M

<b>Type designation</b>	ICARO Pica2 M
<b>Type test reference no</b>	DHV GS-01-2670-22
<b>Holder of certification</b>	<a href="#">ICARO paragliders - Fly &amp; more GmbH</a>
<b>Manufacturer</b>	<a href="#">ICARO paragliders - Fly &amp; more GmbH</a>
<b>Classification</b>	A
<b>Winch towing</b>	Yes
<b>Number of seats min / max</b>	1 / 1
<b>Accelerator</b>	Yes
<b>Trimmers</b>	No



## BEHAVIOUR AT MIN WEIGHT IN FLIGHT (80KG)

## Test pilots



**Josef Bauer**  
No release

## BEHAVIOUR AT MAX WEIGHT IN FLIGHT (105KG)



**Sebastian Mackrodt**  
No release

Inflation/take-off

<b>Rising behaviour</b>	Smooth, easy and constant rising	Smooth, easy and constant rising
<b>Special take off technique required</b>	No	No

Landing

<b>Special landing technique required</b>	No	No
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Speeds in straight flight

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

Control movement

<b>Symmetric control pressure</b>	Increasing	Increasing
<b>Symmetric control travel</b>	Greater than 60 cm	Greater than 65 cm

Pitch stability exiting accelerated flight

<b>Dive forward angle on exit</b>	Dive forward less than 30°	Dive forward less than 30°
<b>Collapse occurs</b>	No	No

Pitch stability operating controls during accelerated flight

<b>Collapse occurs</b>	No	No
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Roll stability and damping

<b>Oscillations</b>	Reducing	Reducing
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Stability in gentle spirals

<b>Tendency to return to straight flight</b>	Spontaneous exit	Spontaneous exit
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Behaviour exiting a fully developed spiral dive

<b>Initial response of glider (first 180°)</b>	Immediate reduction of rate of turn	Immediate reduction of rate of turn
<b>Tendency to return to straight flight</b>	Spontaneous exit (g force decreasing, rate of turn decreasing)	Spontaneous exit (g force decreasing, rate of turn decreasing)
<b>Turn angle to recover normal flight</b>	Less than 720°, spontaneous recovery	Less than 720°, spontaneous recovery

<b>Symmetric front collapse</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> Keeping course		Keeping course
<b>Cascade occurs</b> No		No
<b>Folding lines used</b> 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> Keeping course		Keeping course
<b>Cascade occurs</b> No		No
<b>Folding lines used</b> no		no
<b>Accelerated 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> Keeping course		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>A</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 0° to 30°
<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>A</b>	<b>A</b>
<b>Dive forward angle on exit</b> Dive forward 0° to 30°		Dive forward 0° to 30°
<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 0° to 15°		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>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>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>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

Folding lines used	no	no
<b><u>Directional control with a maintained asymmetric collapse</u></b>	<b>A</b>	<b>A</b>
Able to keep course	Yes	Yes
180° turn away from the collapsed side possible in 10 s	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
<b><u>Trim speed spin tendency</u></b>	<b>A</b>	<b>A</b>
Spin occurs	No	No
<b><u>Low speed spin tendency</u></b>	<b>A</b>	<b>A</b>
Spin occurs	No	No
<b><u>Recovery from a developed spin</u></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><u>B-line stall</u></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><u>Big ears</u></b>	<b>A</b>	<b>A</b>
Entry procedure	Standard technique	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°
<b><u>Big ears in accelerated flight</u></b>	<b>A</b>	<b>A</b>
Entry procedure	Standard technique	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°
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Stable flight
<b><u>Alternative means of directional control</u></b>	<b>A</b>	<b>A</b>
180° turn achievable in 20 s	Yes	Yes
Stall or spin occurs	No	No
<b><u>Any other flight procedure and/or configuration described in the user's manual</u></b>		
No other flight procedure or configuration described in the user's manual		