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





## DHV TESTREPORT EN926-2:2005

GIN CARRERA+ XS

Type designation GIN Carrera+ XS Type test reference no DHV GS-01-2138-15 Holder of certification GIN Gliders Inc.

Manufacturer GIN Gliders Inc.

**Classification** B

Winch towing Yes

Number of seats min / max  $\ 1\ /\ 1$ 

Accelerator Yes

Trimmers No



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (65KG)

**Test pilots** 



Gudrun Öchsl **Expert Beni Stocker** 

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (85KG)



**Harald Buntz** 

Inflation/take-off	A	A
Rising behavi	our Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique requi	red No	No
<u>Landing</u>	A	A
Special landing technique requi	red No	No
Speeds in straight flight	A	A
Trim speed more than 30 km	n/h Yes	Yes
Speed range using the controls larger than 10 km	n/h Yes	Yes
Minimum sp	eed Less than 25 km/h	Less than 25 km/h
Control movement	A	A
Symmetric control press	ure Increasing	Increasing
Symmetric control tra	avel Greater than 55 cm	Greater than 60 cm
Pitch stability exiting accelerated flight	A	A
Dive forward angle on	exit Dive forward less than 30°	Dive forward less than 30°
Collapse occ	curs No	No
Pitch stability operating controls during accelerated flight	А	А
Collapse occ	curs No	No
Roll stability and damping	A	A
<b>Oscillations</b> Reducing		Reducing
Stability in gentle spirals	A	A
Tendency to return to straight flight Spontaneous exit		Spontaneous exit
Behaviour in a steeply banked turn	В	В

Symmetric front collapse	В	В
Entry	Rocking back less than 45°	Rocking back less than 45°
Recovery	Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s
Dive forward angle on exit		Dive forward 0° to 30°
Change of course	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	: No	No
Symmetric front collapse in accelerated flight	B	В
Entry	Rocking back less than 45°	Rocking back less than 45°
Recovery	Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s
Dive forward angle on exit	Dive forward 30° to 60°	Dive forward 30° to 60°
Change of course	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	: No	No
Exiting deep stall (parachutal stall)	A	A
Deep stall achieved	Yes	Yes
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°
Change of course	Changing course less than 45°	Changing course less than 45°
Cascade occurs	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	No	No
Recovery from a developed full stall	В	A
Dive forward angle on exit	: Dive forward 30° to 60°	Dive forward 0° to 30°
_	No collapse	No collapse
Cascade occurs (other than collapses)	•	No
	Less than 45°	Less than 45°
_	Most lines tight	Most lines tight
Asymmetric collapse 45-50%	<u> </u>	¦A
Change of course until re-inflation		Less than 90°
Maximum dive forward or roll angle	_	Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occurs		No
Twist occurs		No
Cascade occurs	s No	No
Asymmetric collapse 70-75%	B	В
Change of course until re-inflation	90° to 180°	90° to 180°
Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
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	No
Twist occurs	No	No
Cascade occurs	s No	No
Asymmetric collapse 45-50% in accelerated flight	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°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occurs		No
Twist occurs		No
Cascade occurs		No
Asymmetric collapse 70-75% in accelerated flight	В	В
Change of course until re-inflation	90° to 180°	90° to 180°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
_		-
Re-inflation behaviour	Spontaneous re-inflation	Spontaneous re-inflation
Re-inflation behaviour Total change of course	•	Less than 360°

Collapse on the opposite side occurs  $\ensuremath{\mathsf{No}}$ 

No

Twist occurs No No Cascade occurs No No **Directional control with a maintained** asymmetric collapse Able to keep course Yes Yes 180° turn away from the collapsed side possible in Yes Yes Amount of control range between turn and stall or More than 50 % of the symmetric control More than 50 % of the symmetric spin travel control travel Trim speed spin tendency Spin occurs No Α Spin occurs No Spin rotation angle after release Stops spinning in less than 90° Stops spinning in less than 90° Cascade occurs No **B-line stall** 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** В Entry procedure Standard technique Dedicated controls Behaviour during big ears Stable flight Stable flight **Recovery** Recovery through pilot action in less than a Spontaneous in 3 s to 5 s further 3 s Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° to 30° Big ears in accelerated flight Entry procedure Standard technique Dedicated controls Behaviour during big ears Stable flight Stable flight **Recovery** Recovery through pilot action in less than a Recovery through pilot action in less further 3 s than a further 3 s Dive forward 0° to 30° Dive forward angle on exit Dive forward 0° to 30° Behaviour immediately after releasing the Stable flight Stable flight accelerator while maintaining big ears Behaviour exiting a steep spiral Tendency to return to straight flight Spontaneous exit Spontaneous exit Turn angle to recover normal flight Less than 720°, spontaneous recovery Less than 720°, spontaneous recovery Sink rate when evaluating spiral stability [m/s] 14 Alternative means of directional control 180° turn achievable in 20 s Yes Stall or spin occurs No Nο

No other flight procedure or configuration described in the user's manual

Any other flight procedure and/or configuration described in the user's manual