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**DHV TESTREPORT LTF 2009** 

AIRCROSS U-CROSS M

Type designation Aircross U-Cross M Type test reference no DHV GS-01-1944-11

Holder of certification Kontest GmbH - AirCross

Manufacturer Kontest GmbH - AirCross

**Classification** C Winch towing Yes

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

Accelerator Yes

BEHAVIOUR AT MIN WEIGHT IN







BEHAVIOUR AT MAX WEIGHT IN FLIGHT (105KG)



	Beni Stocker	Harald Buntz
Inflation/take-off	Α	Α
Rising behavio	<b>ur</b> Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique require	ed No	No
T.	1	1
Landing	Α	Α
Special landing technique require	ed No	No
Speeds in straight flight	<b>A</b>	A
Trim speed more than 30 km/	/b Voc	Yes
Speed range using the controls larger than 10 km/		Yes
	ed Less than 25 km/h	Less than 25 km/h
Control movement	С	С
Symmetric control pressu	re Increasing	Increasing
Symmetric control trav	_	50 cm to 65 cm
Pitch stability exiting accelerated flight	Α	Α
Dive forward angle on ex	cit Dive forward less than 30°	Dive forward less than 30°
Collapse occu	rs No	No
T.	1	1
Pitch stability operating controls during accelerated flight	A	A
		1
Collapse occu	rs No	No
Roll stability and damping	A	A
	<del></del>	<u>F</u>
Oscillation	ns Reducing	Reducing
Stability in gentle spirals	A	A
Tendency to return to straight flig	ht Spontaneous exit	Spontaneous exit
Behaviour in a steeply banked turn	В	В
Sink rate after two turn	<b>ns</b> More than 14 m/s	More than 14 m/s
Symmetric front collapse	В	ic
Ent	ry Rocking back less than 45°	Rocking back less than 45°
	ry Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s
Dive forward angle on ex		Dive forward 0° to 30°

Change of course Entering a turn of less than 90° Cascade occurs No

Symmetric front collapse in accelerated flight C

Entry Rocking back greater than 45° **Recovery** Spontaneous in 3 s to 5 s Dive forward angle on exit Dive forward 30° to 60°  $\,$ 

Change of course Entering a turn of less than 90°

Rocking back greater than 45° Spontaneous in 3 s to 5 s Dive forward 0° to 30° Entering a turn of 90° to 180°

Entering a turn of 90° to 180°

No

Cascade occurs No

Cascade occurs	110	140
Exiting deep stall (parachutal stall)	la.	A
	<u> </u>	<del>i</del>
Deep stall achieved		Yes
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°
Change of course	Changing course less than 45°	Changing course less than 45°
Cascade occurs	No	No
High angle of attack recovery	A	A
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs	•	No
Recovery from a developed full stall	В	В
Dive forward angle on exit	Dive forward 30° to 60°	Dive forward 30° to 60°
Collapse	No collapse	No collapse
Cascade occurs (other than collapses)	No	No
Rocking back	Greater than 45°	Less than 45°
Line tension	Most lines tight	Most lines tight
Asymmetric collapse 45-50%	Α	Α
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°	Dive or roll angle 15° to 45°
	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	No	No
	1	1
Asymmetric collapse 70-75%	С	С
Change of course until re-inflation	Less than 90°	90° to 180°
Maximum dive forward or roll angle		Dive or roll angle 45° to 60°
_	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	No	No
	t.	1
Asymmetric collapse 45-50% in accelerated light	Α	В
	Lara than 200	1000 to 1000
Change of course until re-inflation		90° to 180°
Maximum dive forward or roll angle	_	Dive or roll angle 15° to 45° Spontaneous re-inflation
Total change of course	Spontaneous re-inflation	Less than 360°
Collapse on the opposite side occurs		No
Twist occurs		No
Cascade occurs		No
Asymmetric collapse 70-75% in accelerated	С	С
Change of course until re-inflation		90° to 180°
Maximum dive forward or roll angle	_	Dive or roll angle 45° to 60°
Total change of course	Spontaneous re-inflation	Spontaneous re-inflation Less than 360°
Collapse on the opposite side occurs		No
Twist occurs		No
Cascade occurs		No
Directional control with a maintained	A	A
symmetric collapse	<u> </u>	<u> </u>
Able to keep course		Yes
180° turn away from the collapsed side possible in 10 s		Yes
Amount of control range between turn and stall or		More than 50 % of the symmetric
	travel	control travel
	1	
<u> Frim speed spin tendency</u>	A	А
Spin occurs	No	No
	1	ı
Low speed spin tendency	A	Α
Spin occurs	No	No
	r <sub>a</sub>	12
Recovery from a developed spin	A	Α
Spin rotation angle after release	Stops spinning in less than 90°	Stops spinning in less than 90°
Cascade occurs	No	No
	1	T.
3-line stall	c	Α
Change of course before release	Changing course less than 45°	Changing course less than 45°
Behaviour before release	Remains stable without 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°
Cascade occurs	No	No
21	!e	!n
Big ears	В	В

Entry procedure Dedicated controls Dedicated controls Stable flight Behaviour during big ears Stable flight Recovery Spontaneous in 3 s to 5 s Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Dive forward angle on exit Dive forward 0° to 30° Big ears in accelerated flight A B Entry procedure Dedicated controls Behaviour during big ears Stable flight Stable flight Recovery through pilot action in less than a further 3 s **Recovery** Spontaneous in 3 s to 5 s Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° to 30° Behaviour immediately after releasing the Stable flight Stable flight accelerator while maintaining big ears Behaviour exiting a steep spiral A 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 Α 180° turn achievable in 20 s Yes

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

Stall or spin occurs No

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

by jursaconsulting