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SKYWALK C A Y E N N E 5 S

Type designation SKYWALK Cayenne 5S

Type test reference no DHV GS-01-2165-15

Holder of certification Skywalk GmbH & Co. KG Manufacturer Skywalk GmbH & Co. KG

Classification C

Winch towing No

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

Accelerator Yes

Trimmers No

BEHAVIOUR AT **BIENAWYED** GJHRTAI FLIGHT (85 KG) IN FLIGHT (1

Test pilots





Harald Buntz	Sebastian Mackrod
Δ	Α

	Harald Buntz	Sebastian Mackrodt
Inflation/take-off	A	A
Rising behaviour	Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique required		No
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Landing	A	A
Special landing technique required	No	No
	T	
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
	Less than 25 km/h	Less than 25 km/h
	1	
Control movement	c	į c
Symmetric control pressure		Increasing
Symmetric control travel	45 cm to 60 cm	50 cm to 65 cm
Pitch stability exiting accelerated flight	A	A
Dive forward angle on exit		Dive forward less than 30°
Collapse occurs		No
conapse occurs	110	140
Pitch stability operating controls during	A	A
accelerated flight	<u> </u>	
Collapse occurs	No	No
	T	I
Roll stability and damping	A	Α
Oscillations	Reducing	Reducing
Stability in gentle enirals	A	A
Stability in gentle spirals		
Tendency to return to straight flight	: Spontaneous exit	Spontaneous exit
Rehaviour in a steenly hanked turn	В	В
	iT	-
Sink rate after two turns	More than 14 m/s	More than 14 m/s
Symmetric front collapse	В	В
· · · · · · · · · · · · · · · · · · ·	Rocking back less than 45° Spontaneous in 3 s to 5 s	Rocking back less than 45° 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 No
Symmetric front collapse in accelerated flight	c	c
Entry	Rocking back greater than 45°	Rocking back greater 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	Keeping course	Keeping course
Cascade occurs	No	No

Exiting deep stall (parachutal stall)	c	ic
		1
Deep stall achieved		Yes
Dive forward angle on exit	Spontaneous in less than 3 s	Spontaneous in less than 3 s Dive forward 0° to 30°
	Changing course 45° or more	Changing course 45° or more
Cascade occurs		No
Gascare occurs		
High angle of attack recovery	A	A
	<u> </u>	<u> </u>
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs	No	No
Recovery from a developed full stall	В	c
	L	1
Dive forward angle on exit		Dive forward 60° to 90°
	No collapse	No collapse No
Cascade occurs (other than collapses) Rocking back		Greater than 45°
-	Most lines tight	Most lines tight
Line tension	Those lines agree	riose inies cigne
Asymmetric collapse 45-50%	A	A
Change of course until re-inflation	L	Less than 90°
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		No
Twist occurs		No
Cascade occurs	No	No
Asymmetric collapse 70-75%	С	c
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle	Dive or roll angle 45° to 60°	Dive or roll angle 45° to 60°
Re-inflation behaviour	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	No
Asymmetric collapse 45-50% in accelerated flight	с	С
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 45° to 60°
Re-inflation behaviour	•	Spontaneous re-inflation
Total change of course	•	Less than 360°
Collapse on the opposite side occurs	No	No
Twist occurs	No	No
Cascade occurs	No	No
Asymmetric collapse 70-75% in accelerated	c	c
flight		<u>i</u>
Change of course until re-inflation		90° to 180°
Maximum dive forward or roll angle	•	Dive or roll angle 45° to 60°
Re-inflation behaviour	•	Spontaneous re-inflation
Total change of course Collapse on the opposite side occurs		Less than 360° No
Twist occurs		No
Cascade occurs		No
Directional control with a maintained	A	c
asymmetric 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 spin	More than 50 % of the symmetric control	25 % to 50 % of the symmetric control travel
Trim speed spin tendency	A	A
Spin occurs	No	No
		I _
Low speed spin tendency	A	A
	<u> </u>	
Low speed spin tendency Spin occurs	<u> </u>	¦ A No
	<u> </u>	
Spin occurs Recovery from a developed spin	No A	No A
Spin occurs	No A Stops spinning in less than 90°	' 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 30° to 60°	Dive forward 30° to 60°	
Cascade occurs	No	No	
<u>Big ears</u>	A	A	
Entry procedure	Standard technique	Standard technique	
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°	
Big ears in accelerated flight	A	A	
Entry procedure	Standard technique	Standard technique	
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	
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Behaviour exiting a steep spiral	A	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 recover	
Sink rate when evaluating spiral stability [m/s]	14	14	
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	tne user's manual		

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