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DHV-tested Equipment

Flying Equipment Database

Manufacturers / Dealers

Flying Schools

Clubs

TECHNICAL DATA

DHV TESTREPORT LTF

DHV TESTREPORT EN

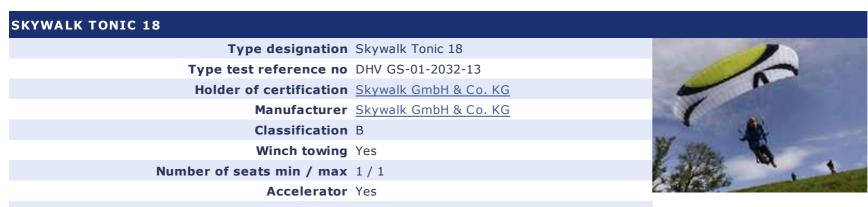
DATASHEET PARTS LIST

OPERATING INSTRUCTION

PRINT



DHV TESTREPORT LTF 2009



Trimmers No

Test pilots

BEHAVIOUR AT MIN WEIGHT IN FLIGHT (65KG)



IN FLIGHT (100KG)

BEHAVIOUR AT MAX WEIGHT

Beni Stocker Harald Buntz

Inflation/take-off

A

Rising behavior	ur Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique require	ed No	No
Landing	A	¦A
Special landing technique require	ed No	No
Speeds in straight flight	B	B
Trim speed more than 30 km/	'h Yes	Yes
Speed range using the controls larger than 1 km/		Yes
Minimum spee	ed 25 km/h to 30 km/h	25 km/h to 30 km/h
Control movement	A	A
Symmetric control pressur	re Increasing	Increasing
Symmetric control trav	el Greater than 55 cm	Greater than 60 cm
Pitch stability exiting accelerated flight	i <mark>A</mark>	<u> </u>
Dive forward angle on ex	it Dive forward less than 30°	Dive forward less than 30°
Collapse occu	rs No	No
	1	
Pitch stability operating controls during accelerated flight	¦A	¦ A
Collapse occur	re No	No
conapse occur	13 140	140
Roll stability and damping	A	i A
		Reducing
	.e .caacg	reducing
Stability in gentle spirals	A	A
Tendency to return to straight flight	ht Spontaneous exit	Spontaneous exit
, as as a second	·	
Behaviour in a steeply banked turn	ıB	 B
Sink rate after two turn	ns More than 14 m/s	More than 14 m/s
Symmetric front collapse	A	 B
Enti	ry Rocking back less than 45°	Rocking back less than 45°

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°
Change of course	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	s No	No
Symmetric front collapse in accelerated flight	lA	В
Entry	Rocking back less than 45°	Rocking back less than 45°
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°
Change of course	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	s No	No
Exiting deep stall (parachutal stall)	¦A	¦A
Deep stall achieved	l Yes	Yes
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	t 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	s No	No
High angle of attack recovery	la .	¦A
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs		No
Recovery from a developed full stall	ı ıB	ıB
Dive forward angle on exit	Dive forward 30° to 60°	Dive forward 30° to 60°
-	No collapse	No collapse
Cascade occurs (other than collapses)	•	No .
Rocking back		Less than 45°
		LC33 triair +3
Line tension		
Line tension	Most lines tight	Most lines tight
	Most lines tight	Most lines tight
Asymmetric collapse 45-50% Change of course until re-inflation	Most lines tight A Less than 90°	Most lines tight A Less than 90°
Asymmetric collapse 45-50% Change of course until re-inflation Maximum dive forward or roll angle	Most lines tight Less than 90° Dive or roll angle 15° to 45°	Most lines tight
Asymmetric collapse 45-50% Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour	Most lines tight Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation	Most lines tight Less than 90° Dive or roll angle 15° to 45°
Asymmetric collapse 45-50% Change of course until re-inflation Maximum dive forward or roll angle	Most lines tight Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	Most lines tight A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation

Twist occurs	s No	No
Cascade occurs		No
cascade occars	, 110	
Asymmetric collapse 70-75%	IA	ı B
Change of course until re-inflation	Less than 90°	90° to 180°
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 45-50% in accelerated flight	A	В
Change of course until re-inflation	Less than 90°	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	s No	No
Twist occurs	s No	No
Cascade occurs	s No	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°	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	s No	No
Twist occurs	s No	No
Cascade occurs	s No	No
Directional control with a maintained asymmetric collapse	¦A	¦A
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 sta	II More than 50 % of the symmetric control n travel	More than 50 % of the symmetric control travel
от ург	ii uavei	Control travel
Trim speed spin tendency	İA	A
Spin occur		No
Spin occur	3 110	IVO
Low speed spin tendency	İA	A
Spin occur		No
Spin occur	3 110	140
Recovery from a developed spin	A	A
Spin rotation angle after releas	e Stops spinning in less than 90°	Stops spinning in less than 90°
Cascade occur		No
B-line stall	¦A	A
Change of course before releas	e Changing course less than 45°	Changing course less than 45°
Behaviour before releas	e Remains stable with straight span	Remains stable with straight span
Recover	y Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on ex	it Dive forward 30° to 60°	Dive forward 30° to 60°
Cascade occur	s No	No
Cascade occur		
Cascade occur	s No	No
<u>Big ears</u>		
<u>Big ears</u> Entry procedur Behaviour during big ear	A e Dedicated controls s Stable flight	Dedicated controls Stable flight
Big ears Entry procedur Behaviour during big ear Recover	e Dedicated controls Stable flight y Spontaneous in less than 3 s	Dedicated controls Stable flight Spontaneous in less than 3 s
<mark>Big ears</mark> Entry procedur Behaviour during big ear	e Dedicated controls Stable flight y Spontaneous in less than 3 s	Dedicated controls Stable flight
Big ears Entry procedur Behaviour during big ear Recover Dive forward angle on ex	e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30°	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°
Big ears Entry procedur Behaviour during big ear Recover Dive forward angle on ex Big ears in accelerated flight	e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30°	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°
Entry procedur Behaviour during big ear Recover Dive forward angle on ex Big ears in accelerated flight Entry procedur	e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° A e Dedicated controls	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°
Entry procedur Behaviour during big ear Recover Dive forward angle on ex Big ears in accelerated flight Entry procedur Behaviour during big ear	e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° A e Dedicated controls s Stable flight	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight
Entry procedur Behaviour during big ear Recover Dive forward angle on ex Big ears in accelerated flight Entry procedur Behaviour during big ear	e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° A e Dedicated controls s Stable flight y Spontaneous in less than 3 s	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s
Entry procedur Behaviour during big ear Recover Dive forward angle on ex Big ears in accelerated flight Entry procedur Behaviour during big ear Recover Dive forward angle on ex	e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° A e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30°	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30°
Entry procedur Behaviour during big ear Recover Dive forward angle on ex Big ears in accelerated flight Entry procedur Behaviour during big ear	e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° A e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° e Stable flight	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s
Entry procedur Behaviour during big ear Recover Dive forward angle on ex Big ears in accelerated flight Entry procedur Behaviour during big ear Recover Dive forward angle on ex Behaviour immediately after releasing th	e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° A e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° e Stable flight	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30°
Entry procedur Behaviour during big ear Recover Dive forward angle on ex Big ears in accelerated flight Entry procedur Behaviour during big ear Recover Dive forward angle on ex Behaviour immediately after releasing th	e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° A e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° e Stable flight	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30°
Entry procedur Behaviour during big ear Recover Dive forward angle on ex Big ears in accelerated flight Entry procedur Behaviour during big ear Recover Dive forward angle on ex Behaviour immediately after releasing th accelerator while maintaining big ear	e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° A e Dedicated controls s Stable flight y Spontaneous in less than 3 s it Dive forward 0° to 30° e Stable flight s	Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° Stable flight

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	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 the user's manual		

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