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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



## Flight test report: EN 926-2:2013 & LTF 91/09

Manufacturer AddressDavinci Products Inc. Sprince Products Inc.Certification number Certification numberPC_152.12019Address\$2 sis nichon-gil, Okcheon- Republic of KoresFlight test:21.11.2019Glider modelPoint MClassificationASerial numberAPT-M10701-RBWRepresentativeNoneTrimmeryes: openedPlace of testVilleneuveFolding lines usednoAdvance - Success 4 LAdvance - Success 4 LHarnessSistence (cm)4444Harness to risers (cm)4448Total weight in flight (ky)8510Total weight in flight (kg)Snooth, easy and constant rising NoANoNoNoNoSpeal take of technique requiredNoNoSpeal take of technique requiredNoNoA Control movesKYesASpeal take of technique requiredNoNoA Control movesKYesAA Control movesIncreasing / greater than 00 cmAMax: weight in flight to bo to Stand taket to technique requiredNoNoSymeet control pressure / travelNoNoSymeet control pressure / travelNoNoMax: weight in flight to bo to Stand taket to to to S	5					
myeon. Yang'nyeong-gun 1250 6 (syeong)-do Republic of Korea     Classification     A       Glider model     Point M     Classification     A       Serial number     APT-M10701-RBW     Representative     None       Trimmer     yes: opened     Place of test     Villeneuve       Folding lines used     no     Advance - Success 4 M     Advance - Success 4 L       Harness     Advance - Success 4 M     Advance - Success 4 L     Harness       Harness to risers distance (cm)     44     44     Image advance - Success 4 L     Harness       Raing behavior     R     Smooth, easy and constant rising     A     Smooth, easy and constant rising     A       Special take off technique required     No     A     No     A       Special instraight flight     A     No     A     No     A       Special instraight flight     Yes     A     No     A       Special instraight flight to controls larger than 10 km/h     Yes     A     Yes     A       Special instraight flight up to 80 kg     Symmetric control pressure / travel     No     not available     0 </td <td colspan="2">Manufacturer Davinci Products Inc.</td> <td>Certification number</td> <td colspan="2">PG_1561.2019</td> <td></td>	Manufacturer Davinci Products Inc.		Certification number	PG_1561.2019		
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9. Behaviour exiting a fully developed spiral dive   A     Initial response of glider (first 180°)   Immediate reduction of rate of turn   A   Immediate reduction of rate of turn   A     Tendency to return to straight flight   Spontaneous exit (g force decreasing, rate of turn decreasing)   A   Spontaneous exit (g force decreasing, rate of turn decreasing)   A   Less than 720°, spontaneous   A     Turn angle to recover normal flight   Less than 720°, spontaneous   A   Less than 720°, spontaneous   A     10. Symmetric front collapse   A   A   A   A   A	8. Stability in gentle spi	rals	A			
Initial response of glider (first 180°)Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing)AImmediate reduction of rate of turn AATendency to return to straight flightSpontaneous exit (g force decreasing, rate of turn decreasing)ASpontaneous exit (g force decreasing, rate of turn decreasing)ATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA10. Symmetric front collapse Approximately 30 % chordAAA	Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А
Tendency to return to straight flightSpontaneous exit (g force decreasing, rate of turn decreasing)ASpontaneous exit (g force decreasing, rate of turn decreasing)ATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA10. Symmetric front collapse Approximately 30 % chordAASpontaneous decreasing, rate of turn decreasing)A	-		А			
decreasing, rate of turn decreasing) decreasing, rate of turn decreasing)   Turn angle to recover normal flight Less than 720°, spontaneous recovery   10. Symmetric front collapse A   Approximately 30 % chord A	Initial response of glider (first 180°)					
recovery recovery   10. Symmetric front collapse A   Approximately 30 % chord A	Tendency to return to straight flight			A		A
Approximately 30 % chord	Turn angle to recover normal flight		• •	A	· · · ·	A
	10. Symmetric front col	lapse	A			
EntryRocking back less than 45°ARocking back less than 45°A	Approximately 30 % cho	ord				
	Entry		Rocking back less than 45°	A	Rocking back less than 45°	A

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Deserver	Coortenacio in lass than 2 a	^	Constant on the second se	^
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	A	Dive forward 0° to 30° Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No		No	
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No		No	
With accelerator				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	А			
Deep stall achieved	Yes	А	Yes	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Change of course	Changing course less than 45°	А	Changing course less than 45°	А
Cascade occurs	No	А	No	А
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	А	No	А
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	А	No	А
Rocking back	Less than 45°	А	Less than 45°	A
Line tension	Most lines tight	А	Most lines tight	A
14. Asymmetric collapse	A			
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	A	Less than 90° / Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А

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Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	А	Less than 90° / Dive or roll angle 0° to 15°	А
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	А
Total change of course	Less than 360°	Α	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	Α	No	А
Cascade occurs	No	Α	No	А
Folding lines used	No		No	
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	А	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	А
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	A
16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than $90^\circ$	А	Stops spinning in less than 90°	А
Cascade occurs	No	А	No	А
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	А	Remains stable with straight span	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	А
Cascade occurs	No	А	No	А
20. Big ears	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21. Big ears in accelerated flight	Α			
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	А
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	A	Yes	A
Stall or spin occurs	No	A	No	A
23. Any other flight procedure and/or configuration described in the user's manual	0			
Procedure works as described	not available	0	not available	0
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0
24. Comments of test pilot				