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TEST REPORT:

EN 1496:2017 Personal fall protection equipment-Rescue lifting

Product: Winch
Report No: 2024 (W) - 213
Client: CCQS
Model (s): 900026
Date of sample received: 2024.08.16
Date(s) of tests: 2024.08.19 – 2024.09.12

DESCRIPTION OF SAMPL

	Model	Description
General Information	900026	Full metal shell, Φ5 mm stainless steel wire rope connector on the end of lanyard.
Manufacturer	Jinhua Jech Tools Co., Ltd.	
Manufacturer Address	No. 1448 Tongxi Road, Linjiang Industrial Park, Wucheng District, Jinhua City, Zhejiang, P. R. China	
Numbers of Samples	2	

Signed:

Issued: 2024.09.12

陈倬为 Chen Zhuowei

Authorized Signatory, Lab Director

Page 1 of 7

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Test Results

4 Requirements

4.1 General

4.1.1

Pass¹

A rescue lifting device that is incorporated into other personal fall protection equipment (e.g. retractable type fall arrester) shall meet all the requirements of this European Standard when in the rescue mode.
Note1. The laboratory deems that the samples satisfy the requirements in this clause based on the obtained performed type test results.

4.1.2

Pass²

If the rescue lifting device is permanently fitted or intended to be fitted to a tripod or similar anchor device in accordance with EN 795, the whole unit, i.e. the rescue lifting device and the anchor device combined, shall meet the requirements of this European Standard.
Note2. The laboratory deems that the samples satisfy the requirements in this clause based on the obtained performed type test results.

4.2 Ergonomics

Pass³

When tested in accordance with 5.4 with a mass equivalent to the maximum rated load, but at least 100 kg, the operating force for lifting the test mass shall not exceed 250 N.
Note3. Maximum rated load: 100 kg.

4.3 Materials and construction

4.3.1 General

Pass⁴

Materials used in the rescue lifting device that may come into contact with the skin of a user shall not be known to cause irritating or sensitization effects during intended use.
When checked in accordance with 5.3, the rescue lifting device shall have no sharp edges and burrs that may cause injury to the user.
Note4. The laboratory deems that the samples satisfy the requirements in this clause based on the examination results of the samples.

4.3.2 Lines

Pass

Lines shall be made from textile rope or webbing or from steel wire rope.
NOTE To prevent rotation of the rescuee, swivels can be incorporated in the line.

4.3.3 Ropes and webbings

N/A⁵

Fibre ropes shall be of a braided construction or a kernmantle construction. They shall conform to EN 1891:1998, 4.1 and 4.5. If they are of a kernmantle construction, they shall also conform to EN 1891:1998, 4.4.
Wire ropes shall conform to ISO 2232.
Webbings and yarns shall be made of virgin filament or multifilament synthetic fibres, suitable for the use intended. The breaking tenacity of the synthetic fibre shall be known to be at least 0,6 N/tex.
Threads used for sewing shall be physically compatible with the rope or webbing and their quality shall be comparable to those of the rope or webbing. They shall, however, be of a contrasting shade in order to facilitate visual inspection.
Note5. No ropes and webbing.

4.3.4 Connectors

Pass⁶

Connectors incorporated in rescue lifting devices shall meet the requirements of EN 362:2004, except 4.6.
Note6. CE:0082.

4.4 Function for class A rescue lifting devices

Pass

When tested in accordance with 5.8.1, the lifting feature shall still function without failure and the test mass shall be arrested within a vertical distance of 100 mm.

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4.6 Static strength**Pass**

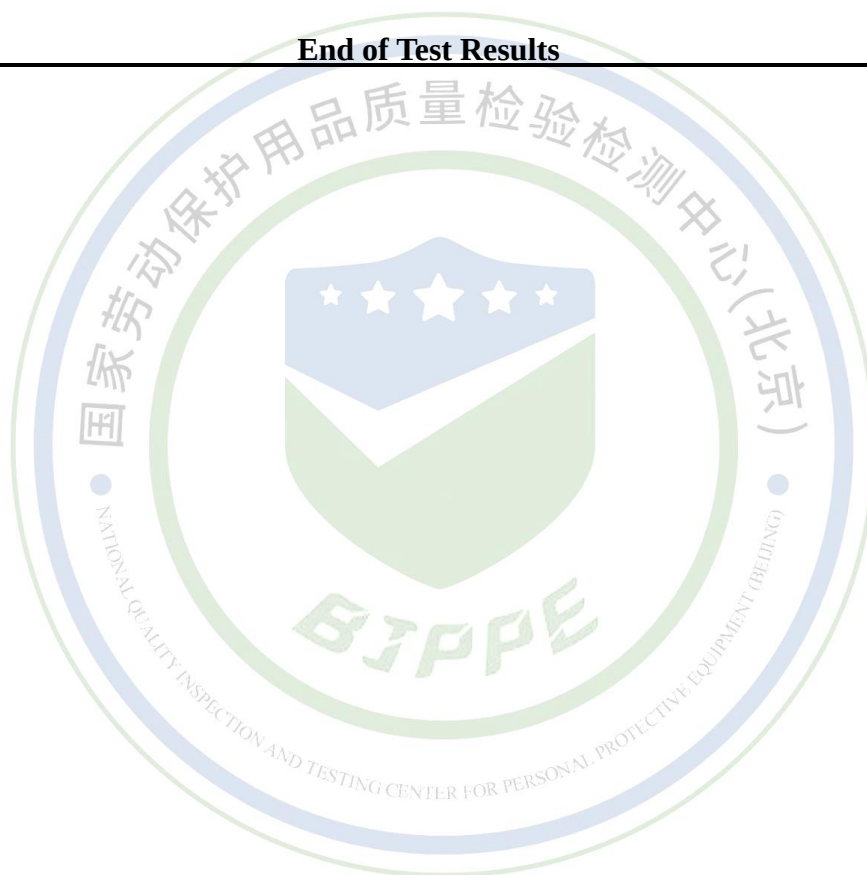
When tested in accordance with 5.6 with a test force equivalent to 10 times the maximum rated load, but at least 12 kN, the rescue lifting device shall withstand the test force applied for 3 min without tearing or rupture.

4.7 Corrosion resistance**Pass**

After the test in accordance with 5.7, metal parts shall show no evidence of corrosion that would affect the function of the rescue lifting device (white scaling or tarnishing is acceptable if the function is not impaired).

NOTE Conformity with this requirement does not imply suitability for use in a marine environment.

End of Test Results



Annex A: Summarization of Test Data

TABLE 4.2 - ERGONOMICS TEST RESULTS:
Test Specification: 5.4 of EN 1496:2017

Sample Information	Result	Assessment
Sample Number: 1#	221 N, the force can lifts the test mass.	Pass
Test condition	Test mass: 140 kg	

TABLE 4.4 - FUNCTION FOR CLASS A RESCUE LIFTING DEVICES TEST RESULTS:
Test Specification: 5.8.1 of EN 1496:2017

Sample Information /Test Conditions	Result	Assessment
Ambient temperature: 22 °C/ 60 %		
Sample Number: 1#	Arrested vertical distance: 39 mm	Pass
Test condition	Test mass B: 150 kg	
Sample Number: 1#	Arrested vertical distance: 18 mm	Pass
Test condition	Test mass C: 30 kg	
Wet condition Immerse water: 20 °C for 60 min / Drain: 15min		
Sample Number: 2#	Arrested vertical distance: 48 mm	Pass
Test condition	Test mass B: 150 kg	
Sample Number: 2#	Arrested vertical distance: 16 mm	Pass
Test condition	Test mass C: 30 kg	

TABLE 4.6 - STATIC STRENGTH TEST RESULTS:
Test Specification: 5.6 of EN 1496:2017

Sample Information /Test Conditions	Result	Assessment
Sample Number: 1#	The rescue lifting device show no tearing or rupture.	Pass
Test Condition:	Test Load 12 kN for 3 min	

TABLE 4.7 - CORROSION RESISTANCE TEST RESULTS:
Test Specification: 5.7 of EN 1496:2017

Sample Information/ Test Conditions	Result	Assessment
Sample Number: 2#	No metal parts show evidence of corrosion that would affect the function of the rescue lifting device.	Pass
Test Condition:	First Test Period Expose time:24 h; Dry time: 60 min at 22°C	
	Second Test Period Expose time:24 h; Dry time: 60 min at 22°C	



Annex B: Photo of samples



End of Annex B

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