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TEST REPORT:

EN 795:2012

**Protection against falls from a height-Anchor devices -Requirements and testing
PD CEN/TS 16415:2013 Personal protective equipment - Anchor devices -
Recommendations for anchor devices for use by more than one person simultaneously**

Product: Rescue tripod with winch

Report No: 2024 (W) - 214

Client: CCQS

Model (s): 900015

Date of sample received: 2024.08.16

Date(s) of tests: 2024.08.19 – 2024.09.12

DESCRIPTION OF SAMPLES

General Information	Model	Description
	900015	All-metal
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	4	

Signed:

Issued: 2024.09.12

陈倬为 Chen Zhuowei

Authorized Signatory, Lab Director

Page 1 of 10

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Test Results

EN 795:2012

4 Requirements

4.1 General

4.1.1

Pass

When checked in accordance with 5.1.7, anchor devices shall be designed in such a way that they can be removed from the structure, without damaging the structure or the anchor device, thus allowing its reuse. g. for periodic examination.

4.1.2

Pass¹

When checked in accordance with 5.1.7, U-bolt clamps shall not be used to form terminations in any part of an anchor device.

Note 1. No U-bolt clamps.

4.1.3

Pass

When checked in accordance with 5.1.7, it shall not be possible for elements with an anchor point to become detached unintentionally. If the element or mobile anchor point can be removed, it shall be designed such that it can only be detached after executing two separate, consecutive and deliberate manual actions.

4.1.4

Pass

When checked in accordance with 5.1.7, anchor devices shall be of such a design and size to allow connectors to rotate freely and sit in the anchor point in the preferred load-bearing position.

4.1.5

Pass

When checked in accordance with 5.1.7, for anchor devices comprising more than one element and for anchor devices with elements that can be adjusted, the design shall be such that those elements cannot appear to be positively locked together when incorrectly assembled or adjusted.

4.1.6

Pass²

When checked in accordance with 5.1.7, the mass of any element of an anchor device that is intended to be transported by a single person shall not exceed 25 kg.

Note 2. 20 kg.

4.1.7

N/A³

If the anchor device is equipped with a fall indicator, the indicator shall clearly indicate a fall has occurred after the dynamic strength and integrity test(s).

Note 3. No fall indicator.

4.1.8

N/A⁴

When an anchor device consists of a combination of several types, it shall be tested for each relevant type and for the combination, e.g. a combination of type C and type E anchor devices.

Note 4. Type B only

4.1.9

N/A⁵

Where the information provided by the manufacturer permits loading in more than one direction(e.g. in tension and in shear) (see 7 c)), anchor devices shall be tested in each safety critical direction.

Note 5. One direction

4.2 Materials

4.2.1 Metal parts

4.2.1.1

Pass⁶

After testing in accordance with 5.8, there shall be no corrosion of the base material. The presence of

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tarnishing and white scaling is acceptable. Metal parts of anchor devices shall show no evidence of corrosion that would affect their functional operation, e.g. the correct operation of moving elements.

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

Note 6. The laboratory deems that the samples satisfy the requirements in this clause based on the examination results of the samples.

4.2.1.2

Pass⁷

If steel wire ropes are galvanized, the galvanization shall be in accordance with ISO 2232.

Note 7. Steel wire ropes not galvanized.

4.2.2 Rope and webbing

N/A⁸

4.2.2.1

Fibre ropes, webbing and sewing threads shall be made from virgin filament or multi-filament synthetic fibres.

NOTE Examples of suitable materials for use in rope and webbing are polyamide, polyester and mixtures of polyamide and polyester.

Note 8. No rope and webbing.

4.2.2.2

Threads used for sewing shall be of a contrasting shade or colour when compared to the rope or webbing to facilitate visual inspection.

4.2.3 Connectors

Pass⁹

Connectors shall conform to EN 362.

Note 9. CE: 0082.

4.3 Design and ergonomics

Pass¹⁰

When checked in accordance with 5.1.7, anchor devices shall not have sharp edges or burrs that may cause injury to the user or that may cut, abrade or otherwise damage itself or any part of the personal fall protection equipment that may come into contact with it.

NOTE It is recommended that exposed edges or corners of elements are relieved either with a radius of at least 0,5 mm or a chamfer of at least 0,5 mm x 45°.

Note 10. The laboratory deems that the samples satisfy the requirements in this clause based on the examination results of the samples.

4.4 Specific requirements

4.4.2 Type B anchor devices

4.4.2.1

Pass

When tested in accordance with 5.4.2 (deformation test), no part of a type B anchor device, excluding rope and webbing slings manufactured from man-made fibres, which is intended to deform, e.g. to absorb energy, shall demonstrate permanent deformation of more than 10 mm in the direction of loading.

4.4.2.2

Pass

When tested in accordance with 5.4.3 (dynamic strength and integrity test), the anchor device shall not release the rigid test mass and the rigid test mass shall be held clear of the ground.

4.4.2.3

Pass

When tested in accordance with 5.4.4 (static strength test), the anchor device shall hold the load.

4.4.2.4

Pass¹¹

Where the information provided by the manufacturer permits use in more than one configuration, each configuration, e.g. a tripod or quad pod with anchor points at the head and on a leg, shall be tested. Each configuration tested shall meet the requirement of 4.4.2.1 to 4.4.2.3.

Note 11. Tripod with anchor points at the head and on a leg.

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6 Marking**Not Tested**

Marking of the anchor device shall conform to EN 365 and, in addition, shall include that the anchor device shall be for the use of one user only.

7 Information supplied by the manufacturer**Not Tested**

The information supplied by the manufacturer shall be provided in at least the language(s) of the country of destination. It shall conform to EN 365 and, in addition, shall include at least the following advice or information:

- a) that the anchor device is for the use of one person only;
- b) that when the anchor device is used as part of a fall arrest system, the user shall be equipped with a means of limiting the maximum dynamic forces exerted on the user during the arrest of a fall to a maximum of 6 kN;
- c) the maximum loads(s) that could be transmitted in service from the anchor device to the structure and the directions of loading relevant to the type of fixing and structure;
- d) the maximum value of deflection of the anchor device and displacement of the anchor point that can occur in service;
- e) For anchor devices intended to deform during deployment, guidance on their suitability for use in different types of personal fall protection systems, e.g. rope access, rescue;
- f) for non-metallic elements or components of the anchor device, information on the materials from which they are made;
- g) that it is recommended the anchor device is marked with the date of the next or last inspection;
- l) documentation after installation and periodic examination (see Annex A);
- m) that the anchor device should only be used for personal fall protection equipment and not for lifting equipment;
- n) For anchor devices that include a fall indicator, information on how to inspect the fall indicator.

PD CEN/TS 16415:2013**4.2 Specific****4.2.2 Type B anchor device****4.2.2.1****Pass¹**

When tested in accordance with 5.3.2 (dynamic strength and integrity test), the anchor device shall not release the rigid test mass and the rigid test mass shall be held clear of the ground.

Note 1. For 3 users. Anchor devices with legs and an anchor point not on a lag.

4.2.2.2**Pass²**

When tested in accordance with 5.3.3 (static strength test), the anchor device shall hold the load.

Note 2. For 3 users. Anchor devices with legs and an anchor point not on a lag.

End of Test Results

Annex A: Summarization of Test Data**TABLE 1 - TEST LANYARD AND FREE FALL DISTANCE:****Test Specification: 5.2.1 of EN 795:2012**

Test lanyard:	11 mm single mountaineering rope have an impact force of 10.24 kN in the first dynamic test as described in EN 892.
The length of the each termination loop (mm):	Max 200mm
The length of the test lanyard, including the termination loops(mm):	2000 mm
Free fall distance	1896 mm
Fall arrest load of the test lanyard	9.24 kN

TABLE 2 - CORROSION RESISTANCE TEST RESULTS:**Test Specification: 5.8 of EN 795:2012**

Sample Information/ Test Conditions	Result	Assessment
Sample Number: 1#	No evidence of corrosion that could affect functional operation	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	

TABLE 4.4.2.1 - DEFORMATION TEST RESULTS:**Test Specification: 5.4.2 of EN 795:2012**

Sample Information/ Test Conditions	Result	Assessment
Anchor type: B		
Sample Number: 2#	No Deformation	Pass
Test Condition:	Test Load: 0.7 kN for 1 min	
Tripod with anchor points at the head.		
Sample Number: 2#	No Deformation	Pass
Test Condition:	Test Load: 0.7 kN for 1 min	
Tripod with anchor points on a leg.		

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TABLE 4.4.2.2—DYNAMIC STRENGTH AND INTEGRITY TEST RESULTS:
Test Specification: 5.4.3 of EN 795:2012

Sample Information/ Test Conditions	Result	Assessment
Anchor type: B		
Sample Number: 3#	Anchor device didn't release the rigid test mass and the rigid test mass was held clear of the ground No deflection and displacement. Peak load: 7.89 kN	Pass
Test Condition:	Horizontal distance: 240 mm	
Sample Number: 3#	The rigid test mass was held clear of the ground	Pass
Test Condition:	Static Load: 300 kg for 3 min	
Tripod with anchor points at the head.		
Sample Number: 3#	Anchor device didn't release the rigid test mass and the rigid test mass was held clear of the ground No deflection and displacement. Peak load: 7.23 kN	Pass
Test Condition:	Horizontal distance: 240 mm	
Sample Number: 3#	The rigid test mass was held clear of the ground	Pass
Test Condition:	Static Load: 300 kg for 3 min	
Tripod with anchor points on a leg.		

TABLE 4.4.2.3 - STATIC STRENGTH TEST RESULTS:
Test Specification: 5.4.4 of EN 795:2012

Sample Information/ Test Conditions	Result	Assessment
Anchor type: B		
Sample Number: 2#	Anchor device held the load	Pass
Test Condition:	Test Load 12 kN fo 3 min	
Tripod with anchor points at the head.		

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TABLE 4.4.2.3 - STATIC STRENGTH TEST RESULTS:**Test Specification: 5.4.4 of EN 795:2012**

Sample Information/ Test Conditions	Result	Assessment
Anchor type: B		
Sample Number: 2#	Anchor device held the load	Pass
Test Condition:	Test Load 12 kN fo 3 min	
Tripod with anchor points on a leg.		

TABLE 4.2.2.1 – EDFORMATION TEST RESULTS:**Test Specification: 5.3.2 of PD CEN/TS 16415:2013**

Sample Information/ Test Conditions		Result	Assessment
Dynamic strength test for type B			
Dynamic strength test for the first test			Pass
Sample Number: 4#	Anchor device didn't release the rigid test mass No deflection and displacement peak load: 9.92 kN.		
Test Condition:	Test lanyard with sewn terminations: 1000 mm Fall arrest load of the test lanyard: 12.12 kN Horizontal distance: 240 mm Test mass: 200 kg		
Dynamic strength test for the second test			
Sample Number: 4#	Anchor device didn't release the rigid test mass No deflection and displacement peak load: 6.89 kN.		Pass
Test Condition:	Test lanyard with sewn terminations: 1000 mm Fall arrest load of the test lanyard: 9.18 kN Horizontal distance: 240 mm Test mass: 200 kg		
Integrity test for type B			Pass
Sample Number: 4#	The rigid test mass was held clear of the ground.		
Test Condition:	Static Load: 750 kg for 3min		
Testing direction: Vertical downward installation. For 3 users			

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TABLE 4.2.2.2 - STATIC STRENGTH TEST RESULTS:
Test Specification: 5.3.3 of PD CEN/TS 16415:2013

Sample Information/ Test Conditions	Result	Assessment
Type B		
Sample Number: 4#	Anchor device held the load	Pass
Test Condition:	Static Load: 14 kN for 3 min	
No non-metallic materials. Testing direction: Vertical downward installation. For 3 users.		



ANNEX B: PHOTOS OF SAMPLES



End of Annex B

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