

Test Report

Personal fall protection equipment EN 1497 : 2007 Rescue harnesses

Report no: 2.16.11.20

Client: INSPEC Certification Services
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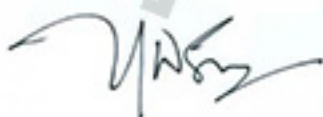
On behalf of: Jinhua Jech Tools Co., Ltd.

Client orders and dates received: TA16/0098 (10 October 2016)
TA16/0098a (24 October 2016)
TA16/0098b (01 November 2016)

Model: JE148141

Dates of tests: 18 October 2016 to 16 November 2016

Signed:



Steven Sum, Laboratory Manager

Issued: 28 November 2016

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Conditions

This report may be reproduced and distributed to your clients, provided that it is reproduced and distributed in full.

Specimens will be disposed of four weeks from the date of this report, unless otherwise instructed.

Opinions, comments and interpretations expressed in this report are shown in italics.

Copies of INSPEC interpretations referenced in this report are available upon request.

Tests marked are not included in our ANAB Scope of Accreditation.

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Summary of assessment*

Clause	Requirement	Assessment (See Key)
4.1	Ergonomics	Pass
4.2	Materials and construction	Ltd
4.3	Dynamic strength	Pass
4.4	Static strength	Pass
4.5	Corrosion resistance of metal parts (if fitted)	Pass
4.6	Marking and information	
6	Marking	
7	Instructions	

① INSPEC Interpretation applies

Key

	Shading shows the clauses requested. Any other clauses were not requested.
Pass	Requirement satisfied.
Ltd	Testing requested was insufficient completely to verify compliance with the clause. Refer to the "Result details" section for more information.
Fail	Requirement not satisfied. Refer to the "Result details" section for more information.
NAs	Assessment not carried out.
NAp	Requirement not applicable.
NT	Requested but not tested due to early termination following failure.

* Assessment relates only to those specimens which were tested and are the subject of this report.

Submission details

Product	Quantity	Date received	INSPEC specimen no. (2D172 +)
Full body harness with waist belt and sit harness, model JE148141	14	29 September 2016	01 to 14

Procedures

The specimens detailed within the submissions above were used for the tests covered by this report.

Testing was performed in accordance with EN 1497:2007 unless otherwise specified below. Reference should be made to the standard when reading this report.

Unless stated otherwise, specimens were tested in the condition as received by INSPEC.

Testing was performed at INSPEC's laboratory in Kunshan, China.

Result details**4.1 Ergonomics**

4.1.1 When specimen 2D17201 was worn, the test subjects reported an acceptable degree of comfort. Pass

When specimen 2D17201 was worn, the test subjects reported no impairment due to displacement of the straps. Pass

4.1.2 The minimum width of primary straps was 44 mm. This is more than the permitted minimum of 40 mm. Pass

4.2 Materials and construction

Specimen 2D17201 was assessed.

4.2.1 The elements of the harness had no sharp edges or burrs that may cause injury to the user. Pass

The materials that may come into contact with the skin of the user and their characteristics were not assessed. Manufacturer to certify. NAs

4.2.2 The materials used for webbing, yarns and threads and their characteristics were not assessed. Manufacturer to certify. NAs

Threads used for sewing the harness were red and black colours. These contrasted with the blue and red colours of the webbing respectively. Pass

4.2.3.1 The harness incorporated means to adjust the straps to fit the wearer and did fit the test subjects. Pass

The harness was not incorporated within a garment. NAs

4.2.3.2 The specimen included four attachment points.

- 1) Dorsal attachment
- 2) Sternal attachment
- 3) Frontal attachment
- 4) Waist attachment (1 pair)

Only the frontal attachment element was submitted for assessment to EN 1497:2007. Pass

The attachment point was located above the centre of gravity of the torso dummy. Pass

A rod of diameter 25 mm could be passed through the eye of the attachment element. Pass

4.2.3.3 There were no connectors incorporated into the harness. NAs

4.3 Dynamic strength

The mass of the torso dummy used for the test was 100 kg.

When specimen 2D17210 was tested at the front rescue attachment element, the harness withstood the first drop test without releasing the torso dummy. No primary strap or attachment element broke or ruptured and no element became detached.

Pass

When specimen 2D17210 was tested again at the front rescue attachment element, the harness withstood the second drop test without releasing the torso dummy. No primary strap or attachment element broke or ruptured and no element became detached.

Pass

4.4 Static strength

Specimen 2D17211 was assessed.

When tested at the front rescue attachment element the harness withstood the 15 kN force applied for 3 minutes without releasing the torso dummy. No primary strap or attachment element broke or ruptured and no element became detached.

Pass

4.5 Corrosion resistance

Specimen 2D17214 was assessed.

Metal parts incorporated into the harness satisfied the corrosion protection requirement.

Pass

Estimates of the uncertainty of measurement

Clause	Test	Uncertainty
6	Marking	-
7	Instructions	-
4.1	Ergonomics	*
4.2	Materials and construction	-
4.1.2	Width of primary straps	±0.65mm
4.2.3.3	Connectors (if fitted)	See report
4.3	Dynamic strength	*
4.4	Static strength	±3.9%
4.5	Corrosion resistance of metal parts (if fitted)	*
4.6	Marking and information	-

* The acceptance criterion for this test is a straightforward "Pass/Fail", rather than a numerical value. Consequently, as there is no value to be reported, uncertainty has not been reported either.

Values expressed as a percentage (%) are relative.

It should be noted that the above values have not been taken into account when making assessment to the pass/fail criteria.

ANNEX

This Annex comprises one section.

1. Photograph of the product tested. (1 page)

**Jinhua Jech Tools Co., Ltd. -
Full body harness with waist belt and sit harness,
model JE148141**



INSPEC Testing Services' specimen 2D17201

18 October 2016

**Jinhua Jech Tools Co., Ltd. -
Full body harness with waist belt and sit harness,
model JE148141**



INSPEC Testing Services' specimen 2017201

18 October 2016