

## Test Report

### Mountaineering equipment EN 12277 : 2015 Harnesses

**Report no:** 2.18.08.04

**Client:** Jinhua Jech Tools Co., Ltd  
No.10 Jinlong Road  
Bailongqiao Town  
Jinhua City  
Zhejiang  
China

**Manufacturer:** Jinhua Jech Tools Co., Ltd

**Client order:** T/0496

**Order received:** 7 May 2018

**Model:** JEH06017

**Dates of tests:** 16 May 2018 to 5 August 2018

**Signed:**



Steven Sum, Laboratory Manager

**Issued:** 17 September 2018

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**Conditions**

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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	General	Pass
4.2	Strength	Pass
6	Marking	Pass
7	Information	Pass

**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. (2F072 +)
Mountaineering harness, model JEH06017	04	24 April 2018	01 to 04

**Procedures**

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

Testing was performed in accordance with EN12277:2015 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****3.1 Harness**

3.1.3 The product was a Sit harness (type C)

**4.1 General****4.1.2 Dimensions of tapes**

Specimen 2F07201 was assessed.

The tape dimensions were as follows:

a) The minimum width of the tape was 60 mm. This is more than the permitted minimum of 43 mm. Pass

b) There were no shoulder straps incorporated to the harness. NAp

**4.1.3 Threads**

Threads used for sewing the specimen were yellow and black colours. These contrasted with the black and yellow colours of the tape respectively. Pass

**4.1.4 Components**

Components that can come into contact with the user or with any textile part were free from burrs and sharp edge. Pass

**4.1.5 Textile part**

Textile parts that come into contact with the user was free from burrs. Pass

**4.2 Strength**

4.2.1 Specimens 2F07202 and 2F07203 were assessed.

When tested in accordance with 5.2.5.2 and 5.2.5.3, load transmitting part to the body did not break. Pass

Specimen 2F07202 withstood the 15 kN force applied for 3 minutes without releasing the torso dummy. Pass

During the static test, the load bearing buckles and adjusting devices did not slip. Pass

The belt of specimen 2F07203 withstood the 10 kN force applied for 3 minutes without releasing the test cylinder. Pass

During the static test, the load bearing buckles and adjusting devices did not slip. Pass

4.2.2 There were no loops or combination of loops specify in the instructions for use for abseiling. Therefore this clause was not applicable. NAp

4.2.3 The harness did not incorporate multiple rope attachment points. Therefore this clause was not applicable. NAp

4.2.4 This clause was not applicable. NAp

4.2.5 This clause was not applicable.

NAP

## 6 Marking

*Markings were supplied electronically and used for assessment*

Harnesses shall carry a label which will be marked with at least the following items:

- |   |      |
|---|------|
| a) name of the manufacturer or his/ her representative;   | Pass |
| b) number of this European Standard, i.e. EN 12277 and type of the harness in accordance with 3.1 model designation (if several models are marketed by the manufacturer); | Pass |
| c) size, if applicable;   | NAP  |
| d) drawing showing how to fasten and secure load transmitting buckles or adjusting devices;   | Pass |
| e) maximum weight and size ranges, only for type B harnesses;   | NAP  |
| f) drawing to indicate that they shall not be used alone, only for the type D harnesses;  | NAP  |
| g) year of manufacturer;  | Pass |
| h) graphical symbol (see Figure 3), which advises the user to read the information given by the manufacturer.   | Pass |



Figure 3 — Operator's manual (according to ISO 7000, Symbol No. 1641)

**7 Information supplied by the manufacturer**

*User instructions were supplied electronically and used for assessment*

The harness shall be supplied with an explanatory leaflet containing at least the following items:

- |   |      |
|---|------|
| a) advice that the product should only be used by trained and/or otherwise competent persons or the user should be under the direct supervision of a trained and/or otherwise competent person;   | Pass |
| b) advice that, before using the harness, the user should carry out a suspension test in a safe place to ensure that the harness is the correct size, has sufficient adjustment and is of an acceptable comfort level for the intended use; | Pass |
| c) instruction for the proper way to put on the harness;  | Pass |
| d) explanation of sizing details and how to obtain the optimum fit;   | Pass |
| e) identification of rope attachment points and how to tie into them;   | Pass |
| f) advice on the importance of regularly checking any buckles or adjusting devices during use;  | Pass |
| g) advice on how attachment should be made to any connecting component or sub-system (e.g. for anchoring, belaying, ascending, abseiling or in a rescue situation);   | Pass |
| h) instruction for the choice of other suitable components for use in the system;   | Pass |
| i) advice on the importance of checking the whole harness regularly for any damage during use and the necessity to withdraw it from use if any damage or defect is found;   | Pass |
| j) maximum weight and size ranges for type B harnesses;   | NAP  |
| k) advice on the risk of injury when using a type D harness without a type C harness;   | NAP  |
| l) advice on the effects of chemical reagents with which the product might come into contact;   | Pass |
| m) instruction for the cleaning and/or disinfection of the product without adverse effects;   | Pass |
| n) lifespan of the product or how to assess it;   | Pass |
| o) instruction for the protection of the product during transportation;   | Pass |
| p) advice on the meaning of any markings on the product;  | Pass |
| q) instructions for drying: after any wetting, without affecting its performance and subsequent correct storage;  | Pass |
| r) advice on the effects of damp and icy conditions;  | Pass |
| s) advice on the effects of storage and of ageing;  | Pass |
| t) information, that the use of the harness is intended for mountaineering, including climbing.   | Pass |

**Estimates of the uncertainty of measurement**

Clause	Test	Uncertainty
4.1	General	Width ±1.3%
4.2	Strength	Static strength See Note 1
		Slippage ±1.3%
6	Marking	See Note 1
7	Information	See Note 1

Note 1 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.

Note 2 The uncertainty value is based on a standard uncertainty multiplied by a coverage factor  $k = 2$ , which provides for a confidence level of approximately 95%. Values expressed as a percentage (%) are relative.

Note 3 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)

END OF REPORT

Jinhua Jech Tools Co., Ltd –  
Mountaineering harness, model JEH06017



INSPEC Testing Services' specimen 2F07201

16 May 2018