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# **Test Report**

# Personal Fall Arrest Equipment ANSI/ASSE Z359.11-2014 Full Body Harness

Report no: 2.21.01.08

Client: Jinhua Jech Tools Co., Ltd.

No.1448 Tongxi Road, Linjiang Industrial Park

Wucheng District Jinhua City Zhejiang 321025

China

Manufacturer: Jinhua Jech Tools Co., Ltd.

Client orders and T/0744C (26 May 2020)
Dates received: T/0831 (29 September 2020)

Model: JE146026P

Dates of tests: 19 September 2020 to 25 November 2020

and 10 February 2021

Signed: Issued: 10 February 2021

Steven Sum, Laboratory Manager Page 1 of 18

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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.

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## Summary of assessment \*

Clause	Requirement	Assessment (See Key)
3.1	Design requirements	Ltd
3.1.10	Static Feet First - Lanyard parking attachment element	Pass
3.2	Attachment Element Requirement	
3.2.1	Dorsal	Pass
3.2.1.3.1	Dynamic Feet First	Pass
3.2.1.3.2	Dynamic Head First	Pass
3.2.1.3.3	Static Feet First	Pass
3.2.1.3.4	Fall Arrest Indicator	Pass
3.2.2	Sternal	Pass
3.2.2.3.1	Dynamic Feet First	Pass
3.2.2.3.2	Static Feet First	Pass
3.2.2.3.3	Fall Arrest Indicator	
3.2.3	Frontal	
3.2.3.1.1	Dynamic Feet First	
3.2.3.1.2	Static Feet First	
3.2.4	Shoulder	
3.2.4.1.1	Static Feet First	
3.2.5	Waist, Rear	L 10
3.2.5.2.1	Static Feet First	Total Total
3.2.6	Hip	Pass
3.2.6.1.1	Static Feet First	Pass
3.2.7	Suspension Seat	
3.2.7.1.1	Static Feet First	
3.3	Component Requirements	30
3.3.1	Load bearing straps	Ltd
3.3.1.2	Strap tensile test	Pass
3.3.1.5	Strap tensile test (after abrasion conditioning)	Pass
3.3.2	Thread and Stitching	Ltd
3.3.3	Connecting Components	NAs
3.3.1.2	Strap tensile test (soft loops)	
3.3.1.5	Strap tensile test (soft loops - after abrasion conditioning)	Jan.

Clause	Requirement	Assessment (See Key)
5.1	Marking requirements	Ltd
5.2	Instructions requirements	Ltd

#### 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.

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#### Submission details

Product	Quantity	Date received	INSPEC specimen no.
Webbing, part # 95	15 m		2H11623A - 23J (cut into 10 equal lengths)
Webbing, part # 180	15 m	2 June 2020	2H18023A - 23J (cut into 10 equal lengths)
Full body harness, model JE146026P	22	3 September 2020	2H18101 - 22

#### Procedures

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

Testing was performed in accordance with ANSI Z359.11-2014 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.



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NAD

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#### Result details

3.1.7.1

3.1.8

3.1.9

element.

3	Requirements	
3.1	Design Requirements	Mr.
	Specimen 2H18102 was assessed,	UE
3.1.1	The specimen permanently incorporated a dorsal attachment element.	Pass
	The specimen did incorporate other attachment elements. The other attachment elements were located at the Sternal and the Hip.	
3.1.2	The specimen did incorporate a load bearing sub-pelvic strap.	Pass
3.1.3	All shoulder straps on the specimen came together at the dorsal location and were crossed and attached with a connector (a D-ring).	Pass
	Testing of the D-ring was not requested.	NAs
3.1.4	The specimen permanently incorporated a back strap as means to control the separation of the shoulder straps at the back of the full body harness.	Pass
	When the specimen was mounted on to the torso as per manufacturer's instructions, some portion of the back strap was located between datum levels G and K.	Pass
3.1.5	The specimen was not equipped with modular components or assemblies.	NAp
3.1.5.1	Not applicable.	NAp
3.1.5.2	The specimen was not equipped with an attachment element extender; therefore this clause is not applicable.	NAp
3.1.6	The specimen was not integrated into a vest or garment.	NAp
3.1.7	The specimen was equipped with two fall arrest indicators.	Pass
	Both fall arrest indicators deployed during dynamic testing defined in section 3.2 when attached to the dorsal attachment element.	Pass
	It was visually possible to inspect the fall arrest indicators.	Pass

The specimen was not equipped with fall arrest indicators at the other attachment

The specimen was not equipped with connecting subsystem combinations.



Pass

Pass

Pass

Pass

#### 3.1.10 Static Feet First Test - Lanyard Parking Attachment Element

Each specimen was equipped with two lanyard parking attachment elements. Both lanyard parking attachment elements did not differ in design.

The design of the lanyard parking attachment element did not deviate from a previously tested model of a full body harness of this manufacturer. The previously tested model was JE146026H.

The lanyard parking attachment element disengagement loads were 80.9, 85.4 and 92.2 pounds respectively for the three specimens tested. These values were less than the maximum 120 pounds permitted.

Specimen 2H18102 was assessed.

- 3.1.11 It was not possible to remove elements of the full body harness that support the shoulders / upper torso from those that support the legs / lower torso.
- 3.1.12 The dorsal and sternal attachment elements were located along the vertical Pass centreline of the full body harness.
- 3.1.13 The specimen incorporated a single point sternal attachment element. NAp
- 3.1.14 The specimen did include a sub-pelvic strap therefore this clause is not applicable. NAp

#### 3.2 Attachment Element Requirements

#### 3.2.1 Dorsal

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Specimen 2H18102 was assessed.

The dorsal attachment element was located in the dorsal area shown in figure 4 of the standard.

The dorsal attachment element was specified in the User Instructions to be used for fall arrest.

- 3.2.1.1 The dorsal attachment was not specified in the User Instructions to be used in travel restraint.
- 3.2.1.2 During the dynamic performance test, it was confirmed that the design of the full body harness directed the load through the shoulder straps supporting the user and around the thighs.

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#### 3.2.1.3 Dorsal Attachment Element Requirements

#### 3.2.1.3.1 Dynamic Feet First Test

Specimen 2H18102 was assessed.

During the dynamic feet-first test, the test torso was not released.

The harness did support the test torso for a period of five minutes post fall.

During this period, the angle of the test torso to vertical was 6 degrees. This value is less than the maximum 30 degrees permitted.

ECI

Both fall arrest indicators deployed visibly and permanently on each specimen.

Full body harness stretch was 10.5 inches. Full body harness stretch stated in the manufacturer's instructions was 18 inches.

Full body harness stretch shall not exceed 18 inches, or that which is stated in the manufacturer's instructions, whichever is less, was satisfied

Specimen 2H18103 was assessed.

During the dynamic feet-first test, the test torso was not released.

The harness did support the test torso for a period of five minutes post fall.

During this period, the angle of the test torso to vertical was 6 degrees. This value is less than the maximum 30 degrees permitted.

Both fall arrest indicators deployed visibly and permanently on each specimen.

Full body harness stretch was 11.0 inches. Full body harness stretch stated in the manufacturer's instructions was 18 inches.

Full body harness stretch shall not exceed 18 inches, or that which is stated in the manufacturer's instructions, whichever is less, was satisfied

Specimen 2H18104 was assessed.

During the dynamic feet-first test, the test torso was not released.

The harness did support the test torso for a period of five minutes post fall.

During this period, the angle of the test torso to vertical was 4 degrees. This value is less than the maximum 30 degrees permitted.

Both fall arrest indicators deployed visibly and permanently on each specimen.

Full body harness stretch was 10.7 inches. Full body harness stretch stated in the manufacturer's instructions was 18 inches.

EC Full body harness stretch shall not exceed 18 inches, or that which is stated in the manufacturer's instructions, whichever is less, was satisfied

Pass Pass

Pass

Pass

Pass

Pass.

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Pass

#### 3.2.1.3.2 Dynamic Head First Test

Specimen 2H18105 was assessed.

During the dynamic head-first test, the test torso was not released.

Pass

The harness did support the test torso for a period of five minutes post fall.

Pass

During this period, the angle of the test torso to vertical was 6 degrees. These values were less than the maximum 30 degrees permitted.

ECH

Pass

Both fall arrest indicators deployed visibly and permanently on each specimen.

Pass

Specimen 2H18106 was assessed.

During the dynamic head-first test, the test torso was not released.

Pass

The harness did support the test torso for a period of five minutes post fall.

Pass

During this period, the angle of the test torso to vertical was 5 degrees. These values were less than the maximum 30 degrees permitted.

Pass

Pass

Both fall arrest indicators deployed visibly and permanently on each specimen.

en.

Specimen 2H18107 was assessed.

During the dynamic head-first test, the test torso was not released.

Pass

The harness did support the test torso for a period of five minutes post fall.

Pass

During this period, the angle of the test torso to vertical was 8 degrees. These values were less than the maximum 30 degrees permitted.

Pass

Both fall arrest indicators deployed visibly and permanently on each specimen.

Pass

#### 3.2.1.3.3 Static Feet First Test

Specimens 2H18108, 2H18109 and 2H18110 were assessed.

During the static feet-first tests, the test torso was not released from the harness.

Pass

During the static feet-first tests, all adjusters did not slip.

Pass

All straps did not show signs of tearing.

Pass

#### 3.2.1.3.4 Fall Arrest Indicator Test

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Specimens 2H18111, 2H18112 and 2H18113 were assessed.

When tested using the dorsal attachment element, both fall arrest indicators deployed visibly and permanently.

ECH

Pass

#### 3.2.2 Sternal

Specimen 2H18114 was assessed.

The sternal attachment element was located as shown in figure 4 of the standard. It was specified in the User Instructions to be used as an alternate fall arrest attachment.

- 3.2.2.1 The sternal attachment was not specified in the User Instructions to be used for travel restraint or rescue.
- 3.2.2.2 During the dynamic performance test, it was confirmed that the design of the full body harness directed the load through the shoulder straps supporting the user and around the thighs.

#### 3.2.2.3 Sternal Attachment Element Requirements

#### 3.2.2.3.1 Dynamic Feet First Test

Specimens 2H18114, 2H18115 and 2H18116 were assessed.

During the dynamic feet-first tests, the test torso was not released.

Pass

Pass.

The harnesses did support the test torso for a period of five minutes post fall.

Pass

During this period, the angles of the test torso to vertical were:

2H18114 - 32 degrees

2H18115 - 35 degrees

2H18116 - 33 degrees

These values are less than the maximum 50 degrees permitted.

Pass

There was no sternal fall arrest indicator incorporated into the harness.

NAp

Full body harness stretches were 7.4, 6.8 and 7.9 inches respectively.

Full body harness stretch stated in the manufacturer's instructions was 18 inches.

Full body harness stretch shall not exceed 18 inches, or that which is stated in the manufacturer's instructions, whichever is less was satisfied.

Pass

#### 3.2.2.3.2 Static Feet First Test

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Specimens 2H18117, 2H18118 and 2H18119 were assessed.

During the static feet first tests, the test torso was not released from the harness.

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During the static feet first tests, all adjusters did not slip.

Pass

Pass.

All straps did not show signs of tearing.

Pass

#### 3.2.6 Hip

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Specimen 2H18120 was assessed.

The hip attachment elements were specified in the User Instructions to be used as a pair.

The hip attachment elements were specified in the User Instructions to be used solely for work positioning or travel restraint.

The hip attachment elements were specified in the User Instructions not to be used for fall arrest.

#### 3.2.6.1 Hip Attachment Element Requirements

#### 3.2.6.1.1 Static Feet First Test

Specimens 2H18120, 2H18121 and 2H18122 were assessed.

During the static feet-first tests, the test torso was not released from the harness.

During the static feet-first tests, all adjusters did not slip.

All straps did not show signs of tearing.

ECH

Pass

Pass

Pass

Pass

Pass

ECH



ECH

#### 3.3 Components Requirements

3.3.1	Load Bearing Straps	
	Specimen 2H18101 was assessed,	770-
3.3.1.1	The minimum width of the load bearing straps was 45 mm. This is more than the minimum 41 mm specified.	Pass
3.3.1.2	Strap specimens 2H11623A to 23E and 2H18023A to 23E withstood the tensile tests of 5,000 pounds applied for 1 minute without breaking.	Pass
3.3.1.3	The material and characteristics of load-bearing straps were not assessed. Manufacturer to certify.	NAs
3.3.1.4	The ends of load bearing straps were hot-cut so as to prevent fraying.	Pass
3.3.1.5	Following abrasion conditioning, strap specimens 2H11623F to 23J and 2H18023F to 23J withstood the tensile tests of 3,600 pounds applied for 1 minute without breaking.	Pass
3.3.1.6	Straps in contact with the metal connectors at the dorsal, sternal and hip attachment elements were protected from wear. Metal connectors were coated with rubberized material.	Pass
3.3.1.7	There were no "buckle and eyelet type" adjusters used in the specimens.	NAp
3.3.2	Thread and Stitching	
	Specimen 2H18101 was assessed.	
3.3.2.1	The material and characteristics of thread used was not assessed. Manufacturer to certify.	NAs
3.3.2.2	All types of stitching were not assessed. Manufacturer to certify.	NAs
3.3.2.3	Threads used for sewing the harness were orange colour. These contrasted with the black colour of the load bearing straps.	Pass
3.3.3	Connecting Components	
	Specimen 2H18101 was assessed.	
3.3.3.1	Testing of connecting components was not requested.	NAs
3.3.3.2	Soft loop attachments were not used.	NAp
3.3.3.3	Soft loop attachments were not used.	NAp
3.3.3.4	Soft loop attachments were not used.	NAp

#### 5 Marking and Instructions

### 5.1 Marking Requirements

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5.1.1	-	Markings shall be in English.	Pass
C	а	The legibility and attachment of required markings shall be designed to endure for the life of the component, subsystem or system been marked. Mfr to certify.	
	4	Markings were provided electronically and used for assessment.	-
5.1.2	b	When pressure-sensitive labels are used, they shall comply with the applicable provision of the reference in Section 7.6. Mfr to certify.	NAs
	c	When labels are concealed, a permanent marking shall be visible to the unaided eye that describes how to access the labels.	NAs
	a	The material of construction; [Polyester]	Pass
	b	The size or range of sizes; [Universal]	Pass
1 00	С	Part number and/or model designation; [JE146026P]	Pass
	d	The month and year of manufacture; [2020/09]	Pass
4	e	The manufacturer's name or logo; [JECH]	Pass
	f	An identifying number, unique to each individual FBH produced by the manufacturer;	Pass
	g	A warning to follow Mfr instructions included with the equipment at the time of shipment from the Mfr.	Pass
5.1.3	h	A label permanently attached to the lanyard parking attachment which either states "Park Lanyard Here. See instructions." verbally or conveys this by means of a pictogram. [only the texts were assessed]	Ltd
	i	A label as defined in Figure 10a and 10b. [only the texts were assessed]	Ltd
		a) The label shall be placed in a prominent location on the FBH	NAs
		b) If the label is part of a label pack or book, the label shall be placed so that the user will see it first.	NAs
		c) The border surrounding the label text shall be no closer than 0.4 inches (10 mm) from any other markings on the FBH	NAs
		d) The label may be modified to include the mark of the qualification body, and may include a part number located on the label outside of the border as needed by the manufacturer as defined in figure 10a and 10b.	NAp



Ltd

#### 5.2 Instruction Requirements

The instructions to users have been assessed as detail below, with reference only to the relevant requirements of the Standard.

INSPEC Technical Services has not assessed these instructions with respect to claims made by the manufacturer outside of these requirements, and therefore accepts no responsibility for the legitimacy of any such claims.

5.2.1	Instructions shall be provided to the user in English, and affixed to the equipment at
	the time of shipment from the manufacturer.

User Instructions were provided electronically and used for assessment.

### 5.2.2 Instructions shall contain the following information:

•		mstructions shall contain the following information.	
	a)	Annex A in its entirety, either incorporated in the Mfr's instructions, as an appendix to the Mfr's instructions, or separately provided with the product along with the Mfr's instructions.	Pass
	b)	A statement that the Mfr's instructions shall be provided to the users.	Pass
	c)	Manufacturer's name, address and telephone number.	Pass
	d)	Manufacturer's part number and/or model designation for the equipment.	Pass
	e)	Intended use and purpose of the equipment.	Pass
	f)	Length of FBH Stretch H <sub>s</sub> , and warning to include other factors such as D-ring/ connector length, setting of the user's body and all other contributing elements when calculating fall clearance.	Pass
	g)	Proper method of use and limitations of the equipment.	Pass
	h)	Illustrations showing locations and markings on the equipment.	Pass

Illustrations showing locations and markings on the equipment.	Pass	on the equipment.	Illustrations showing locations and markings	h)
--	------	-------------------	--	----

i) Reproduction of printed information on all markings.	Pass
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D.	Inspection procedures (including frequency) required to assure the equipment is in	Pass
D	serviceable condition and operating correctly.	

<ul> <li>Criteria for discarding equipment that fails inspection.</li> </ul>	Pass
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Procedures for cleaning, maintenance and storage.	Pass
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mi	Reference to ANSI/ASSE Z359.11 (Full Body Harnesses) and applicable regulations	Pass
m)	governing occupational safety.	

n)	Acceptable use t	or all attachment elements (see Annex A)	Pass
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5.2.3	Instructions shall require that only the equipment Mfr, or persons or entities	Pass
	authorized in writing by the Mfr. make renairs to the equipment	

5.2.4	Instructions shall require the user to remove equipment from service if it has been subjected to the forces of arresting a fall and will include information on inspection of	Pass
	load indicators.	

5.2.5	Instructions shall require the user to have a rescue plan and means at hand to	P
	implement it when using the FRH for fall arrest	

#### 5.2.6 Instructions shall provide warnings against:

Exposure to light (UV degradation)

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a)	Altering equipment	Pass
b)	Misusing equipment	Pass
c)	Using combinations of components or sub-systems, or both, which may affect or interfere with the safe function of each other.	Pass
d)	Exposing the equipment to chemicals, heat, flames or other environmental conditions, which may produce a harmful effect and to consult the manufacturer in case of doubt.	Pass
e)	Using the equipment around moving machinery and electrical hazards.	Pass
f)	Using the equipment near sharp edges or abrasive surfaces.	Pass

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## Estimates of the uncertainty of measurement

Clause	Test		Uncertainty	
3.1.1	Dorsal attachment	5-	See Note 1	
3.1.2	2 Sub-pelvic strap			
	Shoulder straps		See Note 1	
3.1.3	Connector	700000	See report	
3.1.4	Waist belt or back strap - cont	trol of separation of shoulder straps	See Note 1	
3.1.5	Modular components or assen	Modular components or assemblies, as appropriate		
3.1.5.1	Modular components.	See report		
3.1.5.2	Attachment element extender	Length	±0.04 inches	
3.1.6	Full body harness integrated in	nto a vest	See Note 1	
3.1.7	Fall Arrest Indicator		See Note 1	
3.1.8	Harness with attached connec	ting subsystem combinations	See report	
3.1.9	Strap retainers (keepers)		See Note 1	
3.1.10	Lanyard parking attachment el	lement - Disengagement load	±3.4%	
3.1.11	Support – shoulders/upper ton	See Note 1		
3.1.12	Location of single point attachment		See Note 1	
3.1.13	Sternal attachment – bilateral elements		See Note 1	
3.1.14	Sub-pelvic straps		See Note 1	
3.2.1	2.1 Dorsal attachment element		See Note 1	
3.2.1.3.1	Damal attachment classes	Dynamic Feet First		
3.2.1.3.2	Dorsal attachment element	Dynamic Head First	±3.4%	
3.2.1.3.3	Dorsal attachment element	Static strength	See Note 1	
3.2.1.3.3	Dorsal attachment element	Slippage	±1.3%	
3.2.1.3.4	Fall Arrest Indicator test – dors	sal attachment	See Note 1	
3.2.2	Sternal attachment element		See Note 1	
3.2.2.3.1	Sternal attachment element	Dynamic Feet First	±3.4%	
3.2.2.3.2	Sternal attachment element	Static strength	See Note 1	
3.2.2.3.2	Sternal attachment element	Slippage	±1.3%	
3.2.2.3.3	Fall Arrest Indicator test – ster	nal attachment	See Note 1	
3.2.3	Frontal attachment element		See Note 1	
3.2.3.1.1	Frontal attachment element	Dynamic Feet First	±3.4%	
22242	Frantal attachment alamant	Static strength	See Note 1	
3.2.3.1.2	Frontal attachment element	Slippage	±1.3%	
3.2.4	Shoulder attachment element	5.	See Note 1	

3.2.4.1.1	Shoulder attachment element	Static strength	See Note 1
		Slippage	±1.3%
3.2.5	Waist, Rear attachment element		See Note 1
3.2.5.2.1	Milita Donnella Landa Landa	Static strength	See Note 1
3.2.5.2.1	Waist, Rear attachment element	Slippage	±1.3%
3.2.6	Hip attachment element		See Note 1
3.2.6.1.1	His attachment alamant	Static strength	See Note 1
	Hip attachment element	Slippage	±1.3%
3.2.7	Suspension Seat attachment eler	nent	See Note 1
3.2.7.1.1	Suspension Seat attachment	Static strength	See Note 1
3.2.7.1.1	element	Slippage	±1.3%
3.3.1.1	Straps	Width	±1.3%
3.3.1.2	Straps	Static strength	See Note 1
3.3.1.3	Straps – material and characteristics		Not applicable
3.3.1.4	Straps - terminations		See Note 1
3.3.1.5	Straps (after abrasion)	Static strength	See Note 1
3.3.1.6	Straps – contact with metal connectors		See Note 1
3.3.1.7	Buckle & eyelet type adjusters	Spacing	±0.02 mm
3.3.2.1	Threads and stitching – material		See Note 1
3.3.2.2	Lock stitching		Not applicable
3.3.2.3	Stitching - contrasting colour	700	See Note 1
3.3.3.1	Connecting components (except	soft loops)	See report
3.3.3.2	Soft loop attachments		See Note 1
2222	Soft loop	Static strength	See Note 1
3.3.3.3	Soft loop (after abrasion)	Static strength	See Note 1
3.3.3.4	Soft loop attachments – protection	n from wear	See Note 1
5.1	Marking requirements	MATE .	See Note 1
5.2	Instructions requirements		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.

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# ANNEX

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This Annex comprises one section.

Photograph of the product tested.

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(1 page)

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END OF REPORT

Jinhua Jech Tools Co., Ltd. -Full body harness, JE146026P

