

ARNÉS FULL BODY



Características:

- Tensión máxima: 5.000 LB.
Lingitud: 1.8 m.
- Color: amarillo y negro.
- Indicadores de impacto:
costuras especiales que
detectan presión por caída.
- Correas con tejido trenzado: poliéster
y nylon.
- Cubiertas acolchadas, y cubiertas de
etiqueta: poliéster y nylon.
- Conectores y ajustadores: acero.

Descripción:

Fabricado con cinta de nylon y poliéster para resistir más al desgaste y tener altos niveles de protección. Compuesto por cintas, ajustadores y hebillas.

El arnés debe estar conectado a una línea de vida por la espalda, entre el nivel del pecho y los hombros.

Formado por correas de piernas y hombros que sujetan el cuerpo para contrarrestar la fuerza de impacto; y con capacidad de soportar hasta 140 kg por trabajador.

Cuenta con manual de instrucciones.



Aplicaciones:

Proporciona una excelente alternativa para protección de trabajos en altura y espacios confinados.

Certificaciones:

- ANSI Z359.11 - 2014
- CSA Z259.10 - 2012

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



Componentes:



Características Técnicas:

ANILLOS EN D

Resistencia a la tracción de 5.000 libras (22 kN).

CONECTORES

Resistencia a la tracción de 4.000 libras (18 kN).

AJUSTADORES

Resistencia a la tracción de 4.000 libras (18 kN).

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.

Trazabilidad:



Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



INSPEC Technical Services (Kunshan) Co Ltd • 8 Jin Yang East Road • Lu Jia Zhen • Kunshan • Jiangsu • China
Email: testing@inspec.asia
Tel: +86 (512) 5011 2646

Website: www.inspec-international.com

Fax: +86 (512) 5011 2656

Test Report

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

Report no: 2.23.11.09

Client: Industrias Gabuteau SA

Manufacturer: Industrias Gabuteau SA
Jiron Paita 191-San Juan de Miraflores / Lima-Peru

Client order: confirmation Email

Order received: 15 March 2023

Model: 10201026 Arnes TRX Full Body 3 Anillos D

Dates of tests: 14 March 2023 to 15 March 2023

Signed:

Issued: 15 March 2023

Steven Sum, Laboratory Manager

Page 1 of 16

TESTING OF PERSONAL PROTECTIVE EQUIPMENT FOR WORLDWIDE MARKETS

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



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 ACCLASS Scope of Accreditation.

This report has been provided in accordance with our standard Terms of Business, which can be viewed at, and printed from:

<http://inspec-international.com/ToB.pdf>

If you have difficulty accessing the Terms of Business, you may contact us for a copy.



Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



Summary of assessment *

Clause	Requirement	Assessment (See Key)
3.1	Design requirements	Ltd
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	
3.2.2.3.1	Dynamic Feet First	
3.2.2.3.2	Static Feet First	
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	
3.2.5.2.1	Static Feet First	
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	
3.3.1	Load bearing straps	Ltd
3.3.1.2	Strap tensile test	Pass
3.3.1.5	Strap tensile test (after abrasion)	Pass
3.3.2	Thread and Stitching	Ltd
3.3.3	Connecting components	
3.3.1.2	Strap tensile test (soft loops)	
3.3.1.5	Strap tensile test (soft loops - after abrasion)	
5.1	Marking requirements	Ltd
5.2	Instructions requirements	Pass

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



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.



Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



Submission details

Product	Quantity	Dates received	INSPEC specimen no. (job number +)
Full body harness, model JE135005C	06	23 August 2015	2C15301 to 2C15306
Webbing, part no. JEW-1B2Y	01	27 July 2015	2C095A to 2C095J
Webbing, part no. JEW-2BLACK			2C095K to 2C095T

Procedures

The specimens detailed within the submissions 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.

Webbing, part number JEW-1B2Y and JEW-2BLACK were first tested at Inspec's job number 2C095 and the results were reported in Inspec Test Report 2.15.09.18

These webbings satisfied the requirements of clause 3.3.1.2 and 3.3.1.5

The client has declared that these same webbings were used to manufacture this harness. Therefore re-testing of these webbings was not performed.

All specimens were tested and first reported at Inspec Test Report 2.15.09.19A

The same set of results was used in this report which included the assessments of Marking and Instruction requirements.

- 5.1 Marking labels were supplied electronically and used for assessment.
- 5.2 Instruction requirements were supplied electronically and used for assessment.

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



Result details

3	Requirements	
3.1	Design Requirements	
	Specimen 2C15301 was assessed.	
3.1.1	The specimen permanently incorporated a dorsal attachment element.	Pass
	The specimen did incorporate another attachment element at 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 by webbing.	Pass
	A D-ring was attached to the dorsal location.	
	Testing of the D-ring was not requested.	NAs
3.1.4	The specimen permanently incorporated a back strap as means of controlling the separation of the shoulder straps on 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	This clause was not applicable.	NAp
3.1.5.2	This clause was 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 a fall arrest indicator.	Pass
	The fall arrest indicator deployed during dynamic testing defined in section 3.2.	Pass
	It was possible visually to inspect the fall arrester indicator.	Pass
3.1.7.1	The specimen was not equipped with fall arrest indicator on other attachment element.	NAp
3.1.8	The specimen was not equipped with connecting subsystem combinations.	NAp
3.1.9	The specimen did include strap retainers (keepers) which serve to control the loose ends of straps.	Pass

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



3.1.10 Static Feet First Test - Lanyard Parking Attachment Element

Specimen 2C15301 was assessed.

The specimen was equipped with two lanyard parking attachment elements.

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

The previously tested model was JE115021. See INSPEC Test Report 2.15.09.18.

Pass

Specimen 2C15301 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.

Pass

3.1.12 The dorsal attachment element was located laterally along the vertical centreline of the full body harness.

Pass

3.1.13 The specimen did not consist of a sternal attachment element.

NAp

3.1.14 As the specimen included a sub-pelvic strap, this clause is not applicable.

NAp

3.2 Attachment Element Requirements**3.2.1 Dorsal**

Specimen 2C15301 was assessed.

The dorsal attachment element was used for fall arrest.

Pass

3.2.1.1 The dorsal attachment was used in travel restrain or rescue.

Pass

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.

Pass

3.2.1.3 Dorsal Attachment Element Requirements**3.2.1.3.1 Dynamic Feet First Test**

Specimen 2C15302 was assessed.

During the dynamic feet 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 11 degrees. This value is less than the maximum 30 degrees permitted. Pass

Two fall arrest indicators deployed visibly and permanently. Pass

Full body harness stretch was 8.5 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. Pass

3.2.1.3.2 Dynamic Head First Test

Specimen 2C15303 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 14 degrees. This value is less than the maximum 30 degrees permitted. Pass

Two fall arrest indicators deployed visibly and permanently. Pass

3.2.1.3.3 Static Feet First Test

Specimen 2C15304 was 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

Except for the straps of the buckle and eyelet adjusters, straps did not show signs of tearing. Pass

3.2.1.3.4 Fall Arrest Indicator Test

Specimen 2C15305 was assessed.

When tested using the dorsal attachment element, the fall arrest indicator deployed visibly and permanently. Pass

3.2.6 Hip

Specimen 2C15306 was assessed.

The hip attachment elements were specified to be used as a pair. Pass

The hip attachment element was specified to be used solely for work positioning or travel restrain. Pass

The hip attachment element was not specified to be used for fall arrest. Pass

3.2.6.1 Hip Attachment Element Requirements**3.2.6.1.1 Static Feet First Test**

Specimen 2C15306 was 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

Except for the straps of the buckle and eyelet adjusters, straps did not show signs of tearing. Pass

3.3 Components Requirements**3.3.1 Load Bearing Straps**

Specimen 2C15301 was assessed.

3.3.1.1 The minimum width of the load bearing straps was 44 mm. This is more than the minimum 41 mm specified. Pass

3.3.1.2 Specimens 2C095A to 2C095E and 2C095K to 2C095O withstood a tensile test 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 and fused so as to prevent fraying. Pass

3.3.1.5 Following abrasion conditioning, specimens 2C095F to 2C095J and 2C095P to 2C095T withstood a tensile test of 3,600 pounds applied for 1 minute without breaking. Pass

3.3.1.6 Straps in contact with metal connectors at attachment elements were protected from wear. Pass

3.3.1.7 This clause was not applicable. NAp

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



3.3.2 Thread and Stitching

Specimen 2C15301 was assessed.

3.3.2.1 The material and characteristics of thread used was not assessed. Manufacturer NAs to certify.

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 white colour. This contrasted with the yellow and black colour of the load bearing straps. Pass

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



5 Marking and Instructions

Specimen 2C15301 was assessed. The detailed results of the assessment are given below.

5.1 Marking Requirements

5.1.1	- Warnings shall be in English.	Pass
a	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.	NAs
5.1.2	<i>Marking labels were supplied electronically and used for assessment.</i>	-
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
a	The material of construction;	Pass
b	The size or range of sizes;	Pass
c	Part number and/or model designation;	Pass
d	The month and year of manufacture;	Pass
e	The manufacturer's name or logo;	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.	Pass
	A label as defined in Figure 10a and 10b.	Pass
i	a) The label shall be placed in a prominent location on the FBH	Pass
	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.	Pass
	c) The border surrounding the label text shall be no closer than 0.4 inches (10 mm) from any other markings on the FBH	Pass
	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

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



5.2 Instruction Requirements

Specimen 2C15301 was assessed. The detailed results of the assessment are given below. Pass

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.	Pass
5.2.2	Instructions 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_s , 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
i)	Reproduction of printed information on all markings.	Pass
j)	Inspection procedures (including frequency) required to assure the equipment is in serviceable condition and operating correctly.	Pass
k)	Criteria for discarding equipment that fails inspection.	Pass
l)	Procedures for cleaning, maintenance and storage.	Pass
m)	Reference to ANSI/ASSE Z359.11 (Full Body Harnesses) and applicable regulations governing occupational safety.	Pass
n)	Acceptable use for all attachment elements (see Annex A)	Pass
	Instructions shall require that only the equipment Mfr, or persons or entities authorized in writing by the Mfr, make repairs to the equipment.	NAP
5.2.3	<i>Repair was not permitted by the manufacturer.</i>	
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 load indicators.	Pass

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



5.2.5	Instructions shall require the user to have a rescue plan and means at hand to implement it when using the FBH for fall arrest.	Pass
5.2.6	Instructions shall provide warnings against:	
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
g)	Exposure to light (UV degradation)	Pass

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



Estimates of the uncertainty of measurement

Clause	Test		Uncertainty
3.1.1	Dorsal attachment		See Note 1
3.1.2	Sub-pelvic strap		See Note 1
3.1.3	Shoulder straps		See Note 1
	Connector		See report
3.1.4	Waist belt or back strap – control of separation of shoulder straps		See Note 1
3.1.5	Modular components or assemblies, as appropriate		See Note 1
3.1.5.1	Modular components.		See report
3.1.5.2	Attachment element extender	Length	±0.14%
3.1.6	Full body harness integrated into a vest		See Note 1
3.1.7	Fall Arrest Indicator		See Note 1
3.1.8	Harness with attached connecting subsystem combinations		See report
3.1.9	Strap retainers (keepers)		See Note 1
3.1.10	Lanyard parking attachment element - Disengagement load		±2.90%
3.1.11	Support – shoulders/upper torso		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	Dorsal attachment element		See Note 1
3.2.1.3.1	Dorsal attachment element	Dynamic Feet First	±2.92%
3.2.1.3.2		Dynamic Head First	±2.92%
3.2.1.3.3	Dorsal attachment element	Static strength	See Note 1
		Slippage	±1.31%
3.2.1.3.4	Fall Arrest Indicator test – dorsal attachment		See Note 1
3.2.2	Sternal attachment element		See Note 1
3.2.2.3.1	Sternal attachment element	Dynamic Feet First	±2.92%
3.2.2.3.2	Sternal attachment element	Static strength	See Note 1
		Slippage	±1.31%
3.2.2.3.3	Fall Arrest Indicator test – sternal attachment		See Note 1
3.2.3	Frontal attachment element		See Note 1
3.2.3.1.1	Frontal attachment element	Dynamic Feet First	±2.92%
3.2.3.1.2	Frontal attachment element	Static strength	See Note 1
		Slippage	±1.31%
3.2.4	Shoulder attachment element		See Note 1

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



3.2.4.1.1	Shoulder attachment element	Static strength	See Note 1
		Slippage	±1.31%
3.2.5	Waist, Rear attachment element		See Note 1
3.2.5.2.1	Waist, Rear attachment element	Static strength	See Note 1
		Slippage	±1.31%
3.2.6	Hip attachment element		See Note 1
3.2.6.1.1	Hip attachment element	Static strength	See Note 1
		Slippage	±1.31%
3.2.7	Suspension Seat attachment element		See Note 1
3.2.7.1.1	Suspension Seat attachment element	Static strength	See Note 1
		Slippage	±1.31%
3.3.1.1	Straps	Width	±1.30%
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	±1.30%
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		See Note 1
3.3.3.1	Connecting components (except soft loops)		See report
3.3.3.2	Soft loop attachments		See Note 1
3.3.3.3	Soft loop	Static strength	See Note 1
	Soft loop (after abrasion)	Static strength	See Note 1
3.3.3.4	Soft loop attachments – protection from wear		See Note 1
5.1	Marking requirements		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.

ANNEX

This Annex comprises one section.

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

Industrias Gabuteau SA(TRX)
Full body harness, Model 10201026



INSPEC Testing Services' specimen 2C15301

15 March 2023

Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.