

Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014 and ANSI/ASSP Z359.7-2019

Declaration #: DOC-UFH15201Q

Declaration Date: 06/27/2023

Item #: UFH15201Q

Description: KStrong® Kapture™ Elite+ 5-Point FBH, Enhanced Dorsal D-ring Plus™, QC Legs, QC Chest, Back/Shoulder Pad, All Black Fittings (ANSI)

Brand Name: KStrong

Manufacturer: KStrong

Address: 150 N. Radnor Chester Road, Suite F200, Radnor, PA 19087

Additional Items Conforming Under this Declaration (If Applicable):

UFH15201Q(S-M)

UFH15201Q(M-L)

UFH15201Q(L-XL)

UFH15201Q(XL-2XL)

UFH15201Q(2XL-3XL)

KStrong declares that the product(s) listed above is in conformity with the requirements of the following performance standard(s):

ANSI Z359.11-2021

Conformity Assessment Method in accordance with ANSI/ISEA 125-2014



Level 1:

KStrong Lab Outside the Scope of ISO/IEC Standard 17025:2017



Level 2:

KStrong Lab Within the Scope of ISO/IEC Standard 17025:2017



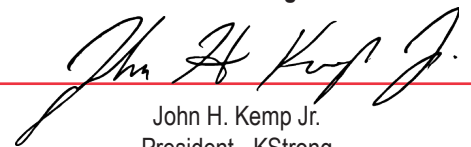
Level 3:

Independent 3rd Party Lab accredited to ISO/IEC Standard 17025:2017

Supporting Documentation: KS-Test-UFH15201Q.pdf

This Certificate is a guarantee that the above standard(s) was met by the requirements of such standard. Testing was performed under normal operation mode. The results of testing apply only to the particular sample tested and the specific test carried out. This Certificate is only issued for products which have passed the testing requirements of listed standard(s).

Authorized Signature:



John H. Kemp Jr.
President - KStrong

ISO 17025 Accredited Test Laboratory

intertek
Total Quality. Assured.



Intertek Testing Services NA, Inc.
3933 US Rt. 11
Cortland, NY 13045
Tel: 1 607-753-6711
www.intertek.com

Accrediting Agency



A2LA
5202 Presidents Court, Ste 220
Frederick, MD 21703
Tel: 301.644.3248
info@A2LA.org

Test Verification of Conformity

Verification Number: 105471911CRT-002

On the basis of the referenced test report(s), sample(s) of the below product have been found to comply with the harmonized standards and Directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it(them).

Applicant Name & Address: KStrong INC
150 N. Radnor Chester Rd.
Suite F200
Radnor, PA 19087
USA

Product Description: Full Body Harness

Models/Type References: UFH15201Q / UFH15203GQ

Brand Name: KStrong INC

Relevant Standards: ANSI/ASSP Z359.11 – 2021 Ed.

Verification Issuing Office Name & Address: Intertek Testing Services NA, Inc.
3933 US Rt-11
Cortland, NY 13045
USA

Date of Tests: 8/25/22 – 8/29/22

Test Report Number(s): 105167073CRT-001

Signature:



Name:

Matthew Stevens

Position:

Team Leader

Date:

6/27/23



This Verification is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to permit copying or distribution of this Verification. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

KSTRONG INC.

TEST REPORT

SCOPE OF WORK

ANSI Z359.11-2021 Safety Requirements for Full Body Harnesses

REPORT NUMBER

105471911CRT-001

ORIGINAL REPORT NUMBER

105167073CRT-001

ISSUE DATE

June 26, 2023

PAGES

13

DOCUMENT CONTROL NUMBER

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Cortland, NY 13045

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TEST REPORT FOR KSTRONG INC.

Report No.: 105471911CRT-001

Date: June 26, 2023

KStrong Inc.
150 N. Radnor Chester Rd. Suite F200
Radnor, PA 19087
USA

Report Number..... : 105471911CRT-001

Signed Quote Number..... : Qu-01357095

PO Number. : N/A

Name of Testing Laboratory

Preparing the Report : Intertek Testing Services NA Inc.

Test Specification:

Standard..... : ANSI/ASSP Z359.11-2021

Date(s) of Testing..... : 8/25/2022-8/29/2022

Product Description..... :

Product Type: : Full Body Harness

Brand Name: : KStrong

Model Number(s): : UFH15201Q & UFH15203GQ

Model Sharing..... : N/A

Date(s) Samples Received : 8/19/2022

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Date: June 26, 2023

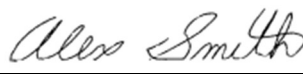

SECTION 1

SUMMARY OF TESTING

TESTS COMPLETED	ANSI/ASSP Z359.11-2021 CLAUSE	STATUS
Design	3	PASS
Dynamic Feet First Drop (Dorsal)	4.3.3	PASS
Dynamic Head First Drop (Dorsal)	4.3.4	PASS
Static Feet First (Dorsal)	4.3.5	PASS
Visual Indicator Test (purchase EAL for test)	4.3.6	PASS
Static Feet First Test for Lanyard Parking Attachment Element	4.3.7	PASS
Markings and Instructions	5	PASS

SECTION 2

This test report concludes the work anticipated in the testing phase of your project. If there are any questions regarding this report, please contact the undersigned at 607-753-6711.

Written BY:	Alex Smith	REVIEWED BY:	Matthew Stevens
TITLE:	Technician	TITLE:	Team Leader
SIGNATURE:		SIGNATURE	
DATE	6/20/2023	DATE:	6/26/2023

Please see attached test data for details.

Date: June 26, 2023

SECTION 3

TESTING EQUIPMENT CALIBRATION INFORMATION

USED FOR TEST	DESCRIPTION	MANUFACTURER	CONTROL NO.	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE
X	Level	MD	L096	NA	NA	3/7/22	3/7/23
X	Test Torso	NA	15064	220 lbs	-	VBU	VBU
X	Load Cell	PCB	L123	-	-	5/25/22	5/25/23
X	Load Cell	Interface	G118	-	-	7/26/22	7/26/23
X	Tape Measure	NA	N1407	-	-	2/16/22	2/16/23

SECTION 3

SUPPLEMENTAL TEST DATA

Paragraph	Test Description	Results	Compliance
3	Requirements		
3.1	Design Requirements		
3.1.2	Permanently incorporate a dorsal or sternal attachment	YES	PASS
3.1.2	Materials and constructions shall meet requirements	YES	PASS
3.1.3	FBH w/ dorsal attachment shall permanently include a sub-pelvic strap and /or waist belt	YES	PASS
3.1.4	FBH w sternal attachment shall permanently include a waist belt	YES	PASS
3.1.4	All shoulder straps shall come together and be connected at the dorsal location	YES	PASS
3.1.4	All FBH's shall permanently incorporate a waist belt or a back strap for controlling the separation of the shoulder straps	YES	PASS
3.1.5	Modular components shall design requirements	YES	PASS
3.1.5.1	Modular components shall be attached to the harness using connections that meet section 3	YES	PASS
3.1.5.2	Attachment element extender can be no longer than 24-inches	YES	PASS
3.1.6	FBH integrated into a vest shall allow visual inspection or entire FBH	YES	PASS
3.1.7	All FBH shall be equipped with a fall arrest indicator that will deploy during dynamic testing	YES	PASS
3.1.8	FBH/EA/EAL combinations shall meet the requirements of Z359.11 and Z359.13	YES	PASS
3.1.9	FBH shall include keepers for straps	YES	PASS
3.1.10	FBH shall include lanyard parking attachment	YES	PASS
3.1.11	It shall not be possible to remove elements	YES	PASS
3.1.12	All single point attachment elements must be located within 2-inches of the vertical centerline	YES	PASS
3.2	Attachment Element Requirements	YES	PASS
3.2.1	Dorsal- shall be used as the primary fall arrest attachment	YES	PASS
3.2.1.1	May be used in travel restraint or rescue	YES	PASS
3.2.1.2	Dorsal attachment shall direct the load through the shoulder straps and around the thighs	YES	PASS

Date: June 26, 2023

Paragraph	Test Description	Results			Compliance
3.2.1.3	Dorsal Attachment Element requirements		YES		PASS
3.2.1.3.1	Dynamic Feet First- see section 4.3.3		YES		PASS
3.2.1.3.2	Dynamic Head First – see section 4.3.4		YES		PASS
3.2.1.3.3	Static Feet First- see section 4.3.5		YES		PASS
3.2.1.3.4	Fall Arrest Indicator – see section 4.3.6		YES		PASS
3.2.2	The sternal attachment may be used as an alternative fall arrest attachment		YES		PASS
3.2.2.1	The sternal attachment may be used for travel restraint or rescue		YES		PASS
3.2.2.2	Sternal attachment design shall direct the load through the shoulder straps and thighs		YES		PASS
3.2.2.3	Sternal Attachment Element Requirements		YES		PASS
3.2.2.3.1	Dynamic Feet First – see section 4.3.3		YES		PASS
3.2.2.3.2	Static Feet First – see section 4.3.5		YES		PASS
3.2.2.3.3	Fall Arrest Indicator – see section 4.3.6		YES		PASS
3.2.3	Frontal attachment to be used for ladder guided type FA’s where no chance of fall in a feet first direction (may be used for work positioning)			NA	NA
3.2.3.1	Frontal Attachment Element Requirements		YES		PASS
3.2.3.1.1	Dynamic Feet First – see section 4.3.3		YES		PASS
3.2.3.1.2	Static Feet First – see section 4.3.5		YES		PASS
3.2.4	Shoulder attachments shall be used as a pair, also for rescue and entry/retrieval not for FA.		YES		PASS
3.2.4.1	Shoulder Attachment Elements Requirements		YES		PASS
3.2.4.1.1	Static Feet First – see section 4.3.5		YES		PASS
3.2.5	Waist, rear attachment for travel restraint only		YES		PASS
3.2.5.1	Waist, rear attachment shall be subjected to minimal loading, not used for FA		YES		PASS
3.2.5.2	Waist Attachment Elements Requirements		YES		PASS
3.2.5.2.1	Static Feet First – see section 4.3.5		YES		PASS
3.2.6	Hip attachments shall be used as a pair and solely for work positioning, not used for FA		YES		PASS
3.2.6.1	Hip Attachment Element Performance Requirements		YES		PASS
3.2.6.1.1	Static Feet First – see section 4.3.5		YES		PASS
3.2.7	Suspension seat shall be used as a pair and solely for work positioning, not used for FA			NA	NA
3.2.7.1	Suspension Seat Attachment Element Performance Requirements			NA	NA
3.2.7.1.1	Static Feet First – see section 4.3.5		YES		PASS
3.3	Component Requirements		YES		PASS
3.3.1	Load Bearing Straps		YES		PASS
3.3.1.1	Shall not be less than 1-5/8” (41mm)		YES		PASS
3.3.1.2	Minimum breaking strength of 5,000 lbs per section 7.1.1		YES		PASS
3.3.1.3	Straps shall be pure, non-recycled synthetic material. Any restrictions shall be marked on the FBH		YES		PASS

Date: June 26, 2023

Paragraph	Test Description	Results			Compliance																																													
3.3.1.4	Straps shall be hot cut, sealed, covered, or stitched to prevent fraying	YES			PASS																																													
3.3.1.5	After abrasion conditioning per 7.1.2, straps shall have a breaking strength of at least 3,600 lbs when tested to 7.1.1	YES			PASS																																													
3.3.1.6	In areas of concentrated wear straps shall be protected	YES			PASS																																													
3.3.1.7	Spacing between eyelets centers shall be between 1-1/8- 2 inches	YES			PASS																																													
3.3.2	Thread and Stitching	YES			PASS																																													
3.3.2.1	Shall have the same material as load bearing straps	YES			PASS																																													
3.3.2.2	All stitching shall be lock stitched and backstitched	YES			PASS																																													
3.3.2.3	All stitching used to connect load bearing members shall be contrasting in color at a distance of 12-inches	YES			PASS																																													
3.3.3	Connecting Components	YES			PASS																																													
3.3.3.1	Hardware shall conform to Z359.12 (except soft loops)	YES			PASS																																													
3.3.3.2	Soft loops attachments may be used in place of metal connecting components	YES			PASS																																													
3.3.3.3	Soft loop attachments shall be constructed of materials that meet section 3.3.1			NA	NA																																													
3.3.3.4	Soft loops shall include protection from wear			NA	NA																																													
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4.3.4	<p>Dynamic Head First Drop Test:</p> <p><u>Test Set-up (Dorsal):</u></p> <ol style="list-style-type: none"> 1. Don the harness on the test torso 2. Position dorsal attachment bearing point 8 +/- 1 inch below the top of the shoulder (or maximum lowest position) 3. If equipped with chest strap (section 4.3.2), locate strap +/-2 inches on torso from datum E figure 5 and 1b of standard 4. Attach quick release to the torso crotch, lower torso to remove slack 5. Raise torso to predetermined height, release, measure MAF 	<table border="1"> <thead> <tr> <th colspan="3">Head First DORSAL Attachment Requirements per Section 3.2.1.3.2</th> </tr> </thead> <tbody> <tr> <td>Sample ID:</td> <td colspan="2">1</td> </tr> <tr> <td>Location of Dorsal Attachment Element</td> <td>8</td> <td>inches</td> </tr> <tr> <td>Drop Height</td> <td>6</td> <td>ft</td> </tr> <tr> <td>Max Arrest Force</td> <td>2175</td> <td>lbs</td> </tr> <tr> <td>Release from the torso</td> <td></td> <td>no</td> </tr> <tr> <td>Support the torso for a period of 5-minutes post fall</td> <td>yes</td> <td></td> </tr> <tr> <td>Shall support the torso post fall of an angle not greater than 30° to vertical</td> <td>yes</td> <td>11.2°</td> </tr> <tr> <td>At least one fall arrest indicator deployed visibly and permanently</td> <td>yes</td> <td></td> </tr> </tbody> </table>	Head First DORSAL Attachment Requirements per Section 3.2.1.3.2			Sample ID:	1		Location of Dorsal Attachment Element	8	inches	Drop Height	6	ft	Max Arrest Force	2175	lbs	Release from the torso		no	Support the torso for a period of 5-minutes post fall	yes		Shall support the torso post fall of an angle not greater than 30° to vertical	yes	11.2°	At least one fall arrest indicator deployed visibly and permanently	yes		PASS
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Date: June 26, 2023

Paragraph	Test Description	Results	Compliance																																				
4.3.5	<p>Static Feet First Test:</p> <p><u>Test Set-up (Dorsal):</u></p> <ol style="list-style-type: none"> 1. Don the harness on the test torso 2. Secure crotch of test torso to test equipment 3. connect to attachment element 4. mark locations of buckles and adjusters 5. apply 3,600 lb load and maintain for 1-minute 6. Release load and evaluate sample 	<table border="1"> <thead> <tr> <th colspan="3">Feet First DORSAL Attachment Requirements per Section 3.2.1.3.3</th> </tr> </thead> <tbody> <tr> <td>Sample ID:</td> <td colspan="2">1,2,3</td> </tr> <tr> <td>Release from the torso</td> <td></td> <td>no</td> </tr> <tr> <td>Slippage – Crotch Strap Adjuster, Right</td> <td>0</td> <td>inches</td> </tr> <tr> <td>Slippage – Crotch Strap Adjuster, Left</td> <td>0</td> <td>inches</td> </tr> <tr> <td>Slippage – Chest Strap Adjuster, Center</td> <td>0</td> <td>inches</td> </tr> <tr> <td>Slippage – Chest Strap Adjuster, Right</td> <td>0</td> <td>inches</td> </tr> <tr> <td>Slippage – Chest Strap Adjuster, Left</td> <td>0</td> <td>inches</td> </tr> <tr> <td>Slippage – Other</td> <td>na</td> <td>inches</td> </tr> <tr> <td>Slippage – Other</td> <td>na</td> <td>inches</td> </tr> <tr> <td>Strap tear further than adjacent eyelet adjuster</td> <td></td> <td>na</td> </tr> <tr> <td>Straps shall show no signs of tearing</td> <td>yes</td> <td></td> </tr> </tbody> </table> <p>“Slippage through any adjuster shall not exceed 1-inch”</p>	Feet First DORSAL Attachment Requirements per Section 3.2.1.3.3			Sample ID:	1,2,3		Release from the torso		no	Slippage – Crotch Strap Adjuster, Right	0	inches	Slippage – Crotch Strap Adjuster, Left	0	inches	Slippage – Chest Strap Adjuster, Center	0	inches	Slippage – Chest Strap Adjuster, Right	0	inches	Slippage – Chest Strap Adjuster, Left	0	inches	Slippage – Other	na	inches	Slippage – Other	na	inches	Strap tear further than adjacent eyelet adjuster		na	Straps shall show no signs of tearing	yes		PASS
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4.3.6	<p>Visual Indicator Test:</p> <p><u>Test Set-up (Dorsal):</u></p> <ol style="list-style-type: none"> 1. Don the harness on the test torso 2. Position dorsal attachment per the Mfg Instructions. 3. Attach quick release to the neck of the test torso 4. Attach a Z359.13 compliant 6-foot EAL to the test anchorage 5. lower torso until test shackles are straight but no load 6. raise torso 24-inches 	<table border="1"> <thead> <tr> <th colspan="2">DORSAL Attachment Requirements per Section 3.2.1.3.4</th> </tr> </thead> <tbody> <tr> <td>Sample ID:</td> <td>1,2,3</td> </tr> <tr> <td>At least one fall arrest indicator shall deploy visibly and permanently</td> <td>YES</td> </tr> </tbody> </table>	DORSAL Attachment Requirements per Section 3.2.1.3.4		Sample ID:	1,2,3	At least one fall arrest indicator shall deploy visibly and permanently	YES	PASS																														
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4.3.7	<p>Static Feet First Test:</p> <p><u>Test Set-up:</u></p> <ol style="list-style-type: none"> 1. Don the harness on the test torso 2. Secure crotch of test torso to test equipment 3. connect to attachment element 4. apply steady load until connection between lanyard parking attachment and test lanyard separate 6. Record maximum force applied 	<table border="1"> <thead> <tr> <th colspan="3">Static Feet First Requirements per Section 3.1.12</th> </tr> </thead> <tbody> <tr> <td>Sample ID:</td> <td colspan="2">1</td> </tr> <tr> <td>Maximum disengagement load</td> <td>93</td> <td>lbs</td> </tr> <tr> <td>Load exceed 120 lbs</td> <td colspan="2">no</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">Static Feet First Requirements per Section 3.1.12</th> </tr> </thead> <tbody> <tr> <td>Sample ID:</td> <td colspan="2">2</td> </tr> <tr> <td>Maximum disengagement load</td> <td>99</td> <td>lbs</td> </tr> <tr> <td>Load exceed 120 lbs</td> <td colspan="2">no</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">Static Feet First Requirements per Section 3.1.12</th> </tr> </thead> <tbody> <tr> <td>Sample ID:</td> <td colspan="2">3</td> </tr> <tr> <td>Maximum disengagement load</td> <td>95</td> <td>lbs</td> </tr> <tr> <td>Load exceed 120 lbs</td> <td colspan="2">no</td> </tr> </tbody> </table>	Static Feet First Requirements per Section 3.1.12			Sample ID:	1		Maximum disengagement load	93	lbs	Load exceed 120 lbs	no		Static Feet First Requirements per Section 3.1.12			Sample ID:	2		Maximum disengagement load	99	lbs	Load exceed 120 lbs	no		Static Feet First Requirements per Section 3.1.12			Sample ID:	3		Maximum disengagement load	95	lbs	Load exceed 120 lbs	no		PASS
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5.1	Marking Requirements																																																																													
5.1.1	Shall be in English		PASS																																																																											
5.1.2	Required markings shall endure the life of the component, when PSL's are used they shall comply with UL969-2001 (section 7.2.1)		PASS																																																																											
5.1.3	Full Body Harnesses shall be marked with the following: <table border="1"> <thead> <tr> <th>Marking</th> <th>Comments</th> <th>YES</th> <th>NO</th> <th>NA</th> </tr> </thead> <tbody> <tr> <td>Materials of Construction</td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>Size or range of sizes</td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>Part number and model designation</td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>Year of manufacture</td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>Manufacturer's name or logo</td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>Warning to follow the manufacturer's instructions included with the equipment at time of shipment from the manufacturer</td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>A label permanently attached to the lanyard parking attachment which states, "Park Lanyard Here", See Instructions</td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>A label as defined in figure 10a & 10b of the standard</td> <td></td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table>		Marking	Comments	YES	NO	NA	Materials of Construction		X			Size or range of sizes		X			Part number and model designation		X			Year of manufacture		X			Manufacturer's name or logo		X			Warning to follow the manufacturer's instructions included with the equipment at time of shipment from the manufacturer		X			A label permanently attached to the lanyard parking attachment which states, "Park Lanyard Here", See Instructions		X			A label as defined in figure 10a & 10b of the standard		X			PASS																														
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Paragraph	Test Description	Results	Compliance
5.2.3	Instructions shall require that only the equipment manufacturer, or persons or entities authorized in writing by the manufacturer, shall make repairs to the equipment		PASS
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
5.2.5	Instructions shall require the user to have a rescue plan and the means at hand to implement it when using the equipment		PASS
5.2.6	Instructions shall provide warnings regarding:		
	Warnings	Comments	YES NO NA
	Altering the equipment		X
	Misusing the equipment		X
	Using combinations of components or sub-systems, or both, which may affect or interfere with the safe function of each other		X
	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		X
	Using the equipment around moving machinery and electrical hazards		X
	Using the equipment near sharp edges or abrasive surfaces		X
	Exposure to light (UV degradation)		X
			PASS

SECTION 5

REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
105167073CRT-001	8/31/2022	Original Report	Steven Morey	Matthew Stevens
105471911CRT-001	6/26/2023	Report Extension	Alex Smith	Matthew Stevens
105471911CRT-001	6/28/2023	Removed Static Hip/Shoulder Data	Alex Smith	Matthew Stevens

Date: June 26, 2023

SECTION 6

Photography

PRODUCT PICTURES



UFH15201Q



UFH15203GQ
