ECE TYPE-APPROVAL CERTIFICATE

Communication concerning:[2] Approval granted
~~Approval extended~~
~~Approval refused~~
~~Approval withdrawn~~
~~Production definitively discontinued~~

of a type of safety belt or restraint system for adult occupants of power driven vehicles pursuant to Regulation No. 16.

Approval No: ***E24*16R08/00*0253*00***

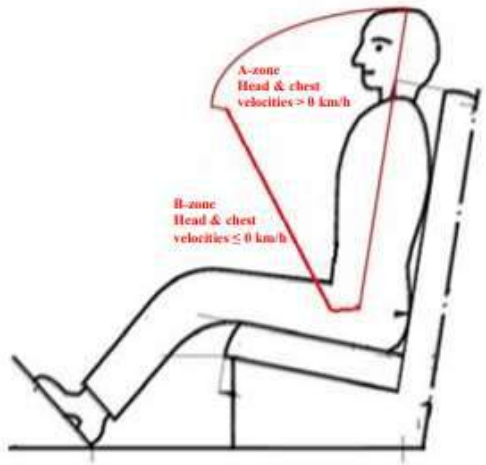
Reason for extension:		***- N/A***
1.	Restraint System (with)/three-point belt~~/lap belt/ special type belt/fitted~~ (with)~~ energy absorber~~/retractor ~~and device for height adjustment of the upper pillar loop~~[2]:	***Ar4m***
2.	Trade name or mark:	***Hazna***
3.	Manufacturer's designation of the type of belt or restraining system:	***HN-300-2***
4.	Manufacturer's Name:	***Danyang City Hazna Vehicle Parts Co., Ltd. Fangnan Village, Fangxian Town, Danyang City, Jiangsu Province, China***
5.	If applicable, name of manufacturer's representative:	***N/A***
6.	Address:	***N/A***
7.	Submitted for approval on:	***04.01.2021***
8.	Technical Service responsible for conducting approval tests:	***CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma***
9.	Date of report issued by that service:	***01.01.2021***
10.	Number of report issued by that service:	***CN-40-17-128-COM20-01036-FIR***

NSAI, 1 Swift Square, Northwood, Santry, Dublin 9, Ireland. Telephone: (+353+1) 807 3800, Facsimile: 01-807 3844

Approval No: ***E24*16R08/00*0253*00***

11.	Type of device: deceleration/~~acceleration~~[2]:	***Deceleration***
12.	Approval granted/~~refused~~/~~extended~~/~~withdrawn~~[2] for fixation to the general anchorage positions as defined in Annex 6, Figure 1, to this Regulation/~~for use in a specific vehicle or in specific types of vehicles.~~[4]:	***Granted.***
12.1.	In case a restraint system has been granted/extended approval, those can be used for particular types of vehicles compatible with the following dimensional conditions: no interior part in a quoted A-zone as shown below (Figure 2):	***N/A***

Figure 2



"

13.	Position and nature of the marking:	***Label stitched on the webbing close to belt anchor bracket.***
14.	Place:	***Dublin***
15.	Date:	***08th January, 2021.***
16.	Signature:	

NATIONAL STANDARDS AUTHORITY OF IRELAND
NSAI Certification
TRANSPORT DEPARTMENT

17. Annexed to this communication is a list of documents in the approval file deposited at the administration services having delivered the approval and which can be obtained upon request.

---

[1] Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the Regulation).
[2] Strike out what does not apply.
[3] Indicate which type.
[4] If a safety-belt is approved following the provisions of paragraph 6.4.1.3.3. of this Regulation, this safety-belt shall only be installed in an outboard front seating position protected by an airbag in front of it, under the condition that the vehicle concerned is approved to UN Regulation No. 94, 01 series of amendments or its later version in force.
If a safety-belt is approved following the provisions of paragraph 6.4.1.3.4. of this Regulation, this safety-belt shall only be installed in a seating position protected by an airbag in front of it."

NSAI, 1 Swift Square, Northwood, Santry, Dublin 9, Ireland. Telephone: (+353+1) 807 3800, Facsimile: 01-807 3844

Approval No: ***E24*16R08/00*0253*00***

Index to the Information Package

Date of issue:	***08th January, 2021***
Date of latest amendment:	***N/A***
Reason for extension/revision:	***N/A***

1. Additional conditions, and advisory notes on legal alternatives.

2. Test report(s)

- numbers(s):	***CN-40-17-128-COM20-01036-FIR***
- date of issue:	***01.01.2021***
- date of latest amendment:	***N/A***

3. Information document

- number(s):	***HN-300-2***
- date of issue:	***20.11.2020***
- date of latest amendment:	***N/A***

Documentation: ***33 pages***

NSAI, 1 Swiftsquare, Northwood, Santry, Dublin 9, Ireland. Telephone: (+353+1) 807 3800, Facsimile: 01-807 3844

Approval No: ***E24*16R08/00*0253*00***

Appendix: **Additional conditions, and advisory notes on legal alternatives**

A: Additional conditions:

1. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
2. Each type from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
3. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
4. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
5. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
6. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.

NSAI, 1 Swiftsquare, Northwood, Santry, Dublin 9, Ireland. Telephone: (+353+1) 807 3800, Facsimile: 01-807 3844

CETOC TS

CETOC Technical Service srl
Via della Bufalotta, 374,
00139 Roma

Safety Belts and Restraint Systems (Component)

0. Legislation:

0.1.	Requirements according to	:	~~UNECE Regulation 16.06 to Supplement 11~~ ~~UNECE Regulation 16.07 to Supplement 4~~ UNECE Regulation 16.08 to Supplement 0

1. General

1.1.	Reason for Inspection Report	:	New approval~~/ Extension of approval / Test report only / COP~~
1.2.	Manufacturer's Representative(s)	:	N/A
1.3.	CETOC TS Representative(s)	:	John Jiang
1.4.	Location of Test	:	Zhongji Huanyu Certification and Inspection Co., Ltd. Suzhou Chunfen Test Technology Service Co., Ltd.
1.5.	Data of test	:	16/12/2020-25/12/2020

2. Manufacturer Details

2.1.	Make	:	Hazna
2.2.	Type	:	HN-300-2
2.3.	Variant/Version	:	See info folder
2.4.	Commercial Name	:	N/A
2.5.	Category	:	Ar4m
2.6.	Name and Address of manufacturer	:	Danyang City Hazna Vehicle Parts Co., Ltd. Fangnan Village, Fangxian Town, Danyang City, Jiangsu Province, China

3. Conclusion:

3.1.	Final conclusion of the inspection:		The above-mentioned type was tested in accordance with the above mentioned legislation and was found to comply in all respects. This Inspection report relates only to the items tested.

Signature:	:	John Jiang	
Name:	:	John Jiang	Massimo Peraboni
Position:	:	Type Approval Engineer	Tech. Mgr.
Place and date:	:	Shanghai, 26/12/2020	Roma, 01/01/2021

4. List of annexes:

Annex Nr.	Page Nr.	Subject
Annex I	13-17	Test Photo and Graph
Annex II		

5. Worst Case Rationale : The variants of this seatbelt have same installation structure. The performance of retractor and locking mechanism is same. There are 3 variants with different anchorage points for installation and buckle connection. Variant A was selected for full test. Variant B and C were selected for dynamic test.

6. Significant Interpretations, Alternative Test Methods, New Technologies : N/A

7. Summary of test results :

7.1. Applicability

	PASS	FAIL	N/A
Inspection of Assembly:	☒	☐	☐
Buckle Requirements:	☒	☐	☐
Strength Tests:	☒	☐	☐
Retractor Requirements – Prior to Conditioning:	☒	☐	☐
Retractor Requirements – Conditioning:	☒	☐	☐
Retractor Requirements – Post-conditioning	☒	☐	☐
Strap Requirements:	☒	☐	☐
Abrasion:	☒	☐	☐
Dynamic Test:	☒	☐	☐
System Approval:	☐	☐	☒

8. Component Specification

Buckle	HN-300-SK1 /HN-300-SK2/ HN-300-SK3
Buckle Anchor	HN-300-SK1 /HN-300-SK2/ HN-300-SK3
Anchor Plate	HN-300-032
Retractor Tongue	HN-300-2 HN-300-030
Webbing	N/A
Other	N/A
Other	N/A

9. Facility and Equipment Checks

9.1. Calibration certificates checked and valid, recorded in the following table : Conform

9.2 All instruments are equipped with identification label : Yes

9.3 Calibration certificates are complete of calibration-chain with detailed information regarding primary used. : Yes

Equipment	Manufacturer	Type	Serial number/Certificate number	Expire date
Abrasion and microslip tester	Hongqi	(0-1)MPa	CN J202006118272C-0002	30/06/2021
Adjuster durability tester	Ligao	HF-1020	SN LG3341	16/07/2021
Buckle durability tester	Huanyu	DK-1	SN CCAP/SB-034	11/06/2021
Caliper	Guanglu	(0-150)mm	SN C1003175770	04/01/2021
Digital display push pull meter	Shandu	SH-200	SN 5716J04768	22/07/2021
Strength tester	Shijin	WDW-100	SN 070	30/06/2021
Buckle opening tester	Chunfen	MH2-500N-FA-1450/385547	CN 202006232248A-0001	01/07/2021
Data collection system	TDAS	TDAS PRO TOM	SN WIT184102-1	30/07/2021
Dynamic Sled	ADDITIUM	M013	CN J202006232248A-0002	01/07/2021

**Specify calibrated date + (interval) or calibration due date.*

		PASS	FAIL	N/A
	Inspection of Assembly			
4.	Samples are clearly and indelibly marked with the manufacturer's name, initials, or trade name or mark.	☒	☐	☐
6.1.2.	Belt or restraint system is designed and constructed to reduce the risk of bodily injury in the event of an accident.	☒	☐	☐
6.1.3	The straps of the belt shall not be liable to assume a dangerous configuration.	☒	☐	☐
6.2.1.1.	Rigid parts do not have sharp edges liable to cause wear or breakage of the straps by chafing.	☒	☐	☐
	Buckle Requirements			
6.2.2.1.	It is not possible to leave the buckle partially closed. Procedure for opening the buckle is obvious. Where the buckle is likely to contact the wearer, the width is ≥ 46 mm and the area ≥ 20 cm^2.	☒	☐	☐
	Width: 49.5 mm Length: 74.0 mm Area: 29.5 cm^2			
6.2.2.2.	Buckle remains closed in all positions. It is not possible to release it with a force < 1 daN.	☒	☐	☐
6.2.2.5.	Release force: 3.11 daN *Limit: 6 daN*	☒	☐	☐
2.26. & 2.27.	Buckle-release button is: Enclosed~~/ Non-enclosed*~~ **Strikethrough, as appropriate.*	☒	☐	☐

				PASS	FAIL	N/A
6.2.2.2.	Buckle-release button area: *Enclosed: ≥ 4.5 cm²; Non-enclosed: ≥ 2.5 cm²*	5.30	cm^2	☒	☐	☐
6.2.2.2.	Buckle-release button width: *Enclosed: ≥ 15 mm; Non-enclosed: ≥ 10 mm*	28.5	mm	☒	☐	☐
6.2.2.2.	Buckle-release button colour: *Requirement: Must be red*	Red		☒	☐	☐
6.2.2.2.	Buckle colour: *Requirement: Must not be red*	Black		☒	☐	☐
6.2.2.2.	Buckle warning lights, if fitted, do not change the perception of the red colouration of the buckle release.			☐	☐	☒
	Low Temperature Buckle Requirements					
6.2.2.3.	Buckle operates normally after being placed in a refrigerated cabinet at -10° ± 1 °C for 2 hours.			☒	☐	☐
6.2.1.4.	If rigid or plastic parts can be trapped in a seat or door, impact test is required.			☐	☐	☒
6.2.1.4, 7.5.4.	If visible cracks are present in any plastic cover or retainer of rigid item, the parts are further assessed against the test requirements specified in paragraphs 6.2.2., 6.2.3. and 6.4. below.			☐	☐	☒
6.2.1.4.	Non-plastic components secure, with no visible cracks.			☒	☐	☐
6.2.2., 6.2.3. & 6.4.	Buckle meets strength requirements and dynamic test requirements.			☒	☐	☐
	Buckle Durability					
6.2.2.4.	Buckle withstands 5,000 opening and closing cycles in conditions of normal use.			☒	☐	☐
6.2.1.2. & 7.2.	A complete safety belt assembly completes the corrosion conditioning: 50 hours in a salt solution and then gently washed in clean water ≤ 38 °C in temperature, and allowed to dry for 24 hours.			☒	☐	☐
6.2.1.2.	No signs of deterioration likely to impair the proper functioning of the device or any significant corrosion are visible to the unaided eye.			☒	☐	☐
6.4.1.2.1.	Post-corrosion, the buckles withstand 500 additional opening and closing cycles under normal conditions of use.			☒	☐	☐
	Micro-Slip					
6.2.3.2	Two samples of each belt adjusting device tested in accordance with the requirements of paragraph 7.3. The strap slip does not exceed 25 mm for each sample of adjusting			☐	☐	☒

		PASS	FAIL	N/A
	device and the sum of shifts for all the adjusting devices does not exceed 40 mm			
7.3.1	Samples conditioned for a minimum of 24 hours in an atmosphere having a temperature of 20 ± 5°C and a relative humidity of 65 ± 5 per cent. Test carried out at a temperature between 15 and 30°C.	☐	☐	☒
7.3.7	1,000 cycles completed at a frequency of 0.5Hz and amplitude 300 ± 20 mm. 5 daN load applied only during the time corresponding to a shift of 100 ± 20 mm for each half period.	☐	☐	☒
	Strength Tests			
6.2.2.6. & 7.5.1.	Buckle did not break, become seriously distorted or become detached when subject to prescribed load.	☒	☐	☐
6.2.3.3. & 7.5.1.	Adjusting device did not break or become detached when subject to the prescribed load. Load condition: 450 mm on spool	☒	☐	☐
6.2.4. & 7.5.1.	Attachments did not break or become detached when subject to the prescribed load. Load condition: 0 mm on spool	☒	☐	☐
	Retractor Requirements – Prior to and After Conditioning			
	Vehicle Sense Test			
6.2.5.3.1.1.	Retractors lock when vehicle deceleration reaches 0.45 g (Type 4) or 0.85 g (Type 4 N).	☒	☐	☐
6.2.5.3.3.	Strap movement before lock does not exceed 50 mm.	☒	☐	☐
	Web Sense Test			
6.2.5.3.1.2.	Retractor does not lock for values of acceleration of the strap, measured in the direction of the extraction of the strap of < 0.8 g, in the case of Type 4 or < 1.0 g in the case of Type 4 N retractors.	☒	☐	☐
6.2.5.3.2.	Retractor locks up when strap acceleration measured in the direction of unreeling is ≥ 3.0 g.	☒	☐	☐
6.2.5.3.3.	Strap movement to lock does not exceed 50 mm.	☒	☐	☐
	Tilt Lock Test			
6.2.5.3.1.3.	It does not lock when its sensing device is tilted ≤ 12°.	☒	☐	☐
6.2.5.3.1.4.	It locks when its sensing device is tilted > 27° in the case of Type 4, or > 40° in the case of Type 4 N retractors.	☒	☐	☐
	Retracting Force			

		PASS	FAIL	N/A
6.2.5.3.4.	Lap belt: The retracting force of the strap is ≥ 0.7 daN.	☐	☐	☒
6.2.5.3.4.	Upper anchorage: The retracting force of the strap is ≥ 0.1 daN and ≤ 0.7 daN.	☒	☐	☐
6.2.5.3.4.	Belt equipped with a tension-reducing device: Minimum retracting force may be reduced to 0.05 daN.	☐	☐	☒
	Retractor Requirements – Conditioning			
6.2.5.3.5. & 7.6.1.	Durability: Subjected to 40,000 cycles of withdrawal and retraction.	☒	☐	☐
6.2.5.3.5. & 7.2.	Corrosion: Exposed to salt solution for 50 hours, washed in clean running water and dried at room temperature for 24 hours.	☒	☐	☐
6.2.5.3.5. &7.6.3.	Dust: Subjected to five hours dust test. Dust agitated for five seconds every 20 minutes, after which retractor cycled 10 times.	☒	☐	☐
6.2.5.3.5.	After conditioning: Subjected to an additional 5,000 cycles.	☒	☐	☐
6.2.5.3.5.	Retractor still operates correctly.	☒	☐	☐
	Strap Requirements			
6.3.1.1.	Straps distribute pressure on body evenly over their width and do not twist under load.	☒	☐	☐
6.3.1.2.	Width of the strap under load of 980 daN + 100 - 0 daN is ≥ 46 mm.	☒	☐	☐

	Sample 1	Sample 2
Strap width measured	47.5mm	47.4mm

6.3.2.	Strength after room conditioning: Breaking load of two samples is ≥ 1,470 daN. Difference between samples does not exceed 10 % of the greater load.	☒	☐	☐
6.3.3.	Strength after special conditioning: Breaking load of two strap samples is ≥ 75 % of average of the loads determined in the room conditioned and ≥ 1,470 daN.	☒	☐	☐
7.4.1.2.	Light conditioning: Strap exposed to light for the time necessary to produce a contrast equal to Grade 4 on the grey scale on Standard Blue Dye No. 7.	☒	☐	☐
7.4.1.3.	Cold conditioning: Strap kept on a plane surface at -30 ± 5 °C for 1.5 hours and then a 2 kg mass applied and kept for a further 0.5 hours. Test within five minutes of conditioning.	☒	☐	☐
7.4.1.4.	Heat conditioning: Strap kept for three hours in a heating cabinet, in an atmosphere having a temperature of 60 ± 5 °C and a relative humidity of 65 ± 5 %. Test within five minutes of conditioning.	☒	☐	☐
7.4.1.5.	Water conditioning: Strap kept fully immersed for three hours in distilled water at a temperature of 20 ± 5 °C, to which a trace of a wetting agent has been added. Test within 10 minutes of conditioning.	☒	☐	☐

		PASS	FAIL	N/A
	Abrasion			
7.4.1.6.	Abrasion conditioning will be performed on every device in which the strap is in contact with a rigid part of the belt. It is at least equal to 75 % of the breaking strength average determined during tests on unabraded straps and not less than the minimum load specified for the item being tested. Difference between breaking strength of the two samples does not exceed 20 % of the highest measured breaking strength.	☒	☐	☐
	Dynamic Test			
	Anchorage positions as below/as Annex VII.	☒	☐	☐
	Dimensions relative body zero (mm).	☒	☐	☐

Anchorage point A

Points of interest		'X' Axis	'Y' Axis	'Z' Axis
R-point		0	0	0
Lower inner anchorage *(Buckle)*	Declared	95	200	-90
	Tested	88	195	-78
Lower outer anchorage *(Anchorage)*	Declared	40	-260	-230
	Tested	35	-250	-239
Retractor anchorage	Declared	160	-260	-170
	Tested	150	-250	-185
Upper outer anchorage *(D-ring)*	Declared	180	-260	620
	Tested	175	-250	600

Anchorage point B

Points of interest		'X' Axis	'Y' Axis	'Z' Axis
R-point		0	0	0
Lower inner anchorage *(Buckle)*	Declared	195	210	-135
	Tested	185	200	-140
Lower outer anchorage *(Anchorage)*	Declared	40	-260	-230
	Tested	50	-250	-215
Retractor anchorage	Declared	160	-260	-170
	Tested	150	-250	-165
Upper outer anchorage *(D-ring)*	Declared	180	-260	620
	Tested	175	-250	610

Belt for use on multiple vehicles.	☒	☐	☐
Single test allowable if each anchorage position for all the vehicles specified lie within a sphere of 50 mm radius.	☒	☐	☐

			PASS	FAIL	N/A
	Pre-test Checks				
	Pretensioner fitted.		☐	☐	☒
	Sled accelerometer within calibration.		☒	☐	☐
	Manikin within calibration.		☒	☐	☐
	~~Acceleration/~~Deceleration* curve verified **Delete as appropriate.*		☒	☐	☐
	System Approval				
6.4.1.4.	Seating position approved as part of a system		☐	☐	☒
6.4.1.4.1.	No part of torso or head of manikin makes contact with any rigid part of the vehicle		☐	☐	☒
6.4.1.4.1.1.	In the case of the driver the chest may contact the steering assembly if vehicle is approved to UNECE Regulation 12 and impact is not higher than 24 km/h		☐	☐	☒
6.4.1.4.1.2	In the case of any other occupant, there is no contact of the head or of the chest with any rigid part of the vehicle in front of the manikin. Or contact of the manikins head with its knees.		☐	☐	☒
6.4.1.4.2.	Seat displacement and locking mechanisms are still operable by hand after the dynamic test.		☐	☐	☒
6.4.1.5.	Pelvis displacement may exceed limits if the seat is approved to UNECE Regulation 14.		☐	☐	☒
6.4.1.4.	Method of assessment:	~~Vehicle body/Standard Sled/etc.~~	☐	☐	☒
6.4.1.4.	Method of analysis:	~~Video Analysis/CAD/etc.~~	☐	☐	☒

Test Results

Retractor Requirements – Prior to Conditioning

Vehicle Sense Test

RH	Sample 1		Sample 2	
	g to lock	mm strap	g to lock	mm strap
Outboard	N/A	N/A	N/A	N/A
Forward		N/A		N/A
Inboard		N/A		N/A
Rearward		N/A		N/A

LH	Sample 1		Sample 2	
	g to lock	mm strap	g to lock	mm strap
Outboard	0.45	27.6	0.45	25.8
Forward		25.4		29.0
Inboard		26.3		26.6
Rearward		22.0		24.0

Web Sense Test

RH	Sample 1	Sample 2
Acceleration to lock (g)	N/A	N/A
Strap movement (mm)	N/A	N/A
Acceleration to lock (g)	N/A	N/A
Strap movement (mm)	N/A	N/A

LH	Sample 1	Sample 2
Acceleration to lock (g)	3.0	3.0
Strap movement (mm)	33.5	36.4
Acceleration to lock (g)	3.0	3.0
Strap movement (mm)	31.9	32.6

Tilt Lock Test

RH	Sample 1	Sample 2
Outboard (°)	N/A	N/A
Forward (°)	N/A	N/A
Inboard (°)	N/A	N/A
Rearward (°)	N/A	N/A

LH	Sample 1	Sample 2
Outboard (°)	22.0	22.0
Forward (°)	21.0	21.0
Inboard (°)	21.0	22.0
Rearward (°)	20.0	21.0

Retracting Force

	Sample 1	Sample 2
Average Retracting Force (daN) RH	N/A	N/A
Average Retracting Force (daN) LH	3.84	3.75

Retractor Requirements – Post Conditioning

Vehicle Sense Test

RH	Sample 1		Sample 2	
	g to lock	mm strap	g to lock	mm strap
Outboard	N/A	N/A	N/A	N/A
Forward		N/A		N/A
Inboard		N/A		N/A
Rearward		N/A		N/A

LH	Sample 1		Sample 2	
	g to lock	mm strap	g to lock	mm strap
Outboard	0.45	28.1	0.45	26.2
Forward		26.6		29.8
Inboard		27.1		27.2
Rearward		24.2		25.1

Web Sense Test

RH	Sample 1	Sample 2
Acceleration to lock (g)	N/A	N/A
Strap movement (mm)	N/A	N/A
Acceleration to lock (g)	N/A	N/A
Strap movement (mm)	N/A	N/A

LH	Sample 1	Sample 2
Acceleration to lock (g)	3.0	3.0
Strap movement (mm)	34.2	37.1
Acceleration to lock (g)	3.0	3.0
Strap movement (mm)	32.8	33.5

Tilt Lock Test

RH	Sample 1	Sample 2
Outboard (°)	N/A	N/A
Forward (°)	N/A	N/A
Inboard (°)	N/A	N/A
Rearward (°)	N/A	N/A

LH	Sample 1	Sample 2
Outboard (°)	23.0	23.0
Forward (°)	22.0	22.0
Inboard (°)	22.0	23.0
Rearward (°)	21.0	22.0

Retracting Force

	Sample 1	Sample 2
Average Retracting Force (daN) RH	N/A	N/A
Average Retracting Force (daN) LH	3.89	3.77

Static Strength Tests

Component	Required load (daN)	Position	Achieved load (daN)	
			Sample 1	Sample 2
Retractor	980 *(450 mm on spool)*	Driver:	1835	1866
		Passenger:	N/A	N/A
	1470 *(0 mm on spool)*	Driver:	1827	1806
		Passenger:	N/A	N/A
Buckle	980 *(1470, if combined with attachment)*		2014	1988
Anchor plate *(2 samples if abrasion baseline)*	1470	Driver:	1954	1900
		Passenger:	N/A	N/A
D-loop	1470		2235	2187
Height adjuster	1470		N/A	N/A

Conditioning	Sample 1 (daN)	Sample 2 (daN)	Average (daN)	Difference %
Room conditioning	2788	2759	2774	1.0
Baseline for abrasion	2788	2759	2774	1.0
Baseline for anchor (Pass)	N/A	N/A	N/A	N/A
Baseline for anchor (Driver)	2788	2759	2774	1.0
Baseline for Buckle	2788	2759	2774	1.0

Conditioning	Sample 1 load		Sample 2 load	
	daN	%	daN	%
Light conditioning	2579	93.0	2546	91.8
Cold conditioning	2598	93.7	2612	94.2
Heat conditioning	2642	95.2	2628	94.7
Exposure to water	2635	95.0	2661	95.9

Conditioning	Sample 1 load		Sample 2 load		Difference
	daN	%	daN	%	%
Anchor abrasion (Pass)	N/A	N/A	N/A	N/A	N/A
Anchor abrasion (Driver)	2502	90.2	2533	91.3	1.1
S/Guide abrasion	N/A	N/A	N/A	N/A	N/A
D-Ring abrasion	2609	94.1	2588	93.3	0.8
Tongue abrasion	2533	91.3	2564	92.4	1.1
Buckle abrasion	2512	90.6	2538	91.5	0.9

Dynamic Test – Variant A

Criteria	Result	
	Sample 1	Sample 2
Test number	1#	2#
Sled speed (km/h)	49.91	49.95
Stopping distance (mm)[1]	410	415
Hip excursion (mm)[2]	98	95
Chest excursion (mm)[3]	195	201
If chest excursion > 300 mm:		
Speed of chest reference point at 300 mm extension	N/A	N/A
Belt pretensioner fire time	N/A	N/A
Anchor pretensioner fire time	N/A	N/A
Seatbelt designed to be used only in conjunction with an airbag	N/A	N/A
Any failure of load bearing component	N/A	N/A
Force required for post-dynamic release[4]	4.31	4.28

Dynamic Test - Variant B

Criteria	Result	
	Sample 1	Sample 2
Test number	1#	2#
Sled speed (km/h)	49.96	49.90
Stopping distance (mm)[1]	408	405
Hip excursion (mm)[2]	98	99
Chest excursion (mm)[3]	184	190
If chest excursion > 300 mm:		
Speed of chest reference point at 300 mm extension	N/A	N/A
Belt pretensioner fire time	N/A	N/A
Anchor pretensioner fire time	N/A	N/A
Seatbelt designed to be used only in conjunction with an airbag	N/A	N/A
Any failure of load bearing component	N/A	N/A
Force required for post-dynamic release[4]	4.73	4.65

Dynamic Test - Variant C

Criteria	Result	
	Sample 1	Sample 2
Test number	1#	2#
Sled speed (km/h)	49.91	49.94
Stopping distance (mm)[1]	409	408
Hip excursion (mm)[2]	88	90
Chest excursion (mm)[3]	170	175
If chest excursion > 300 mm:		
Speed of chest reference point at 300 mm extension	N/A	N/A
Belt pretensioner fire time	N/A	N/A
Anchor pretensioner fire time	N/A	N/A
Seatbelt designed to be used only in conjunction with an airbag	N/A	N/A
Any failure of load bearing component	N/A	N/A
Force required for post-dynamic release[4]	4.64	4.55

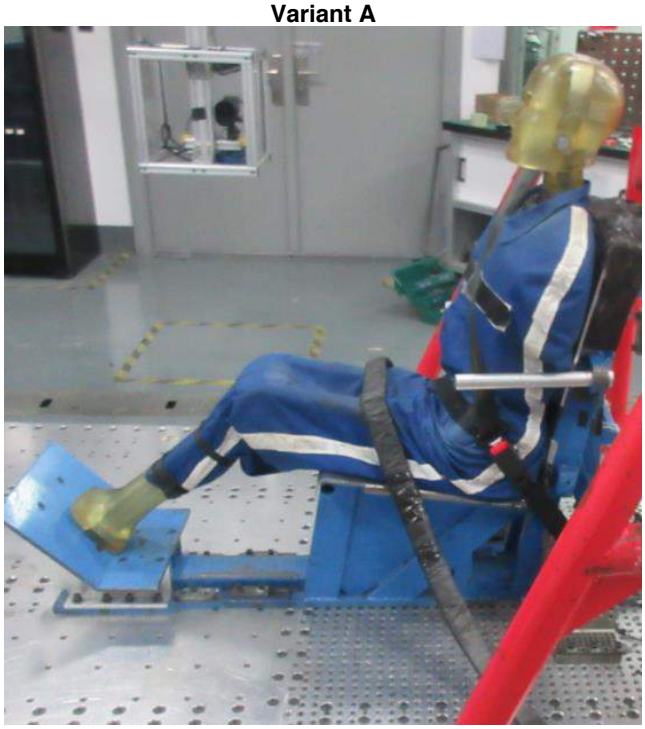
[1]Only applicable for deceleration sleds. Stopping distance limit: 350 - 450 mm
[2]Hip excursion limit: 80 - 200 mm without pretensioner; 40 - 200 mm with pretensioner.
[3]Chest excursion limit: 100 - 300 mm without pretensioner; 50 - 300 mm with pretensioner; no limit if used with an airbag as long as the speed of the chest reference point at 300 mm extension does not exceed 24 km/h.
[4]Limit: 6 daN when tensioned at 60/n daN, where n is number of straps.
**Delete, as appropriate.*

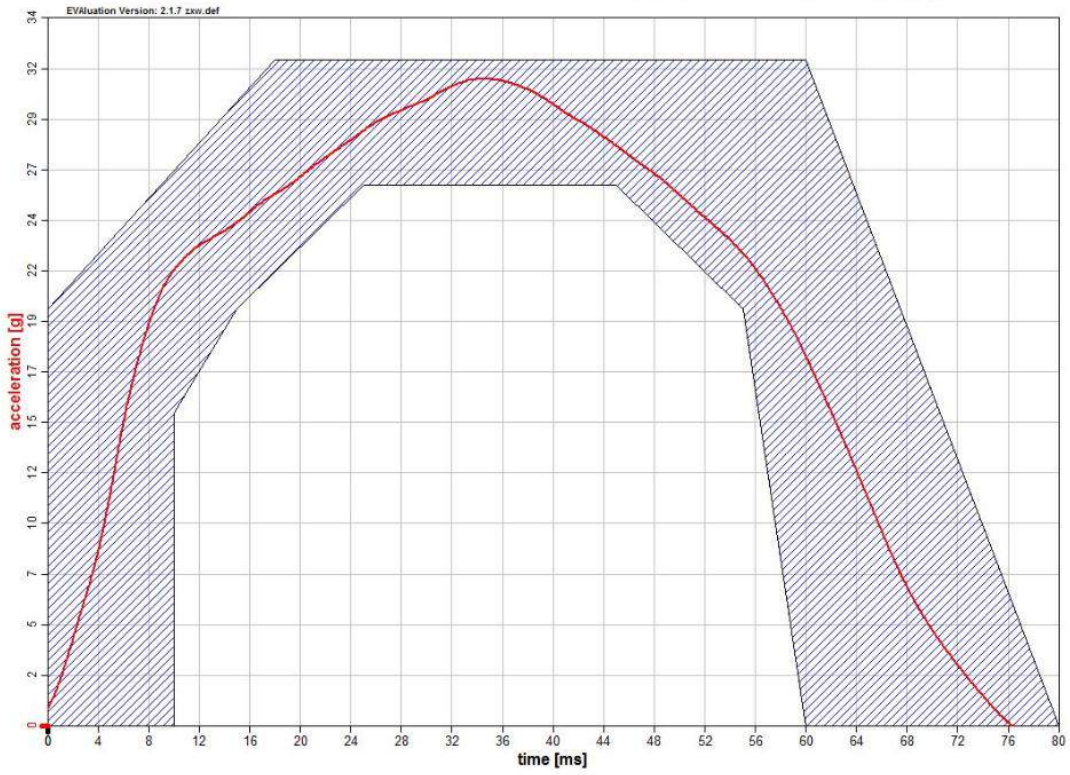
Remarks

None

Note: CETOC TS apply measurement uncertainty to calibrated items but not test results.

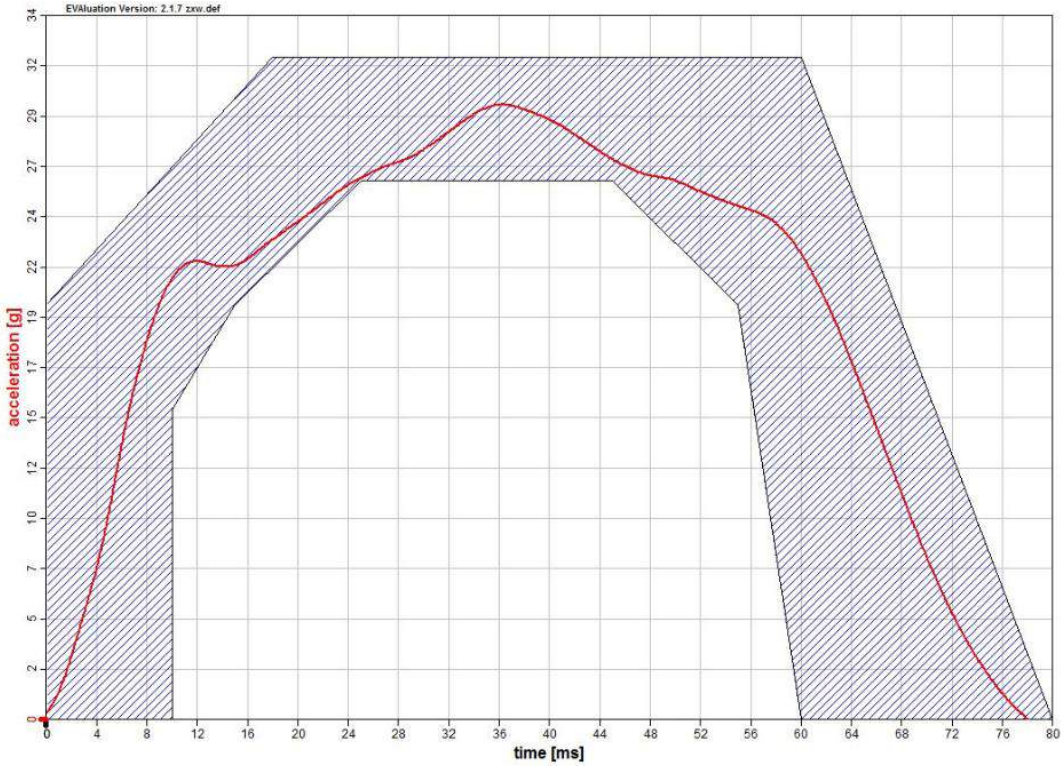
Annex I Test Photo and Graph
Variant A





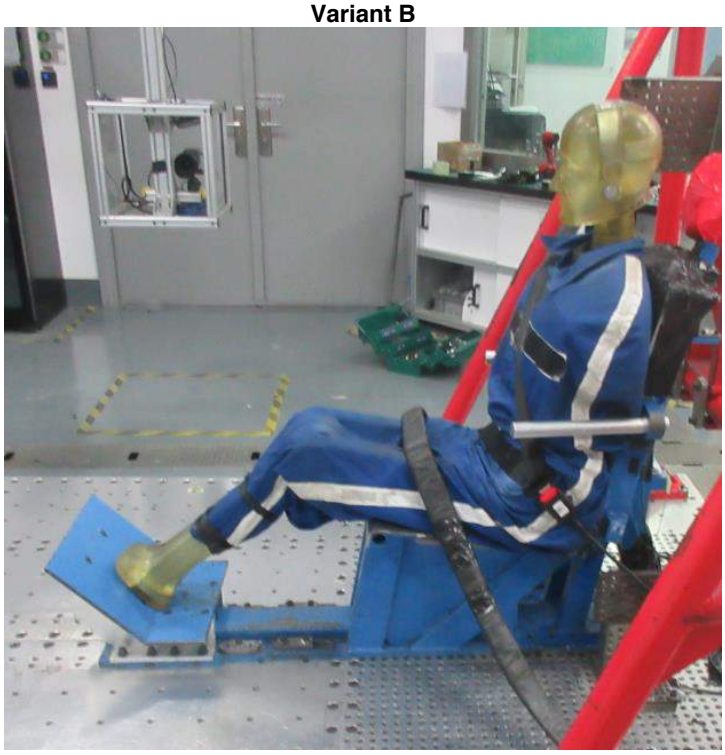
1#

CETOC Technical Service srl
Via della Bufalotta, 374,
00139 Roma

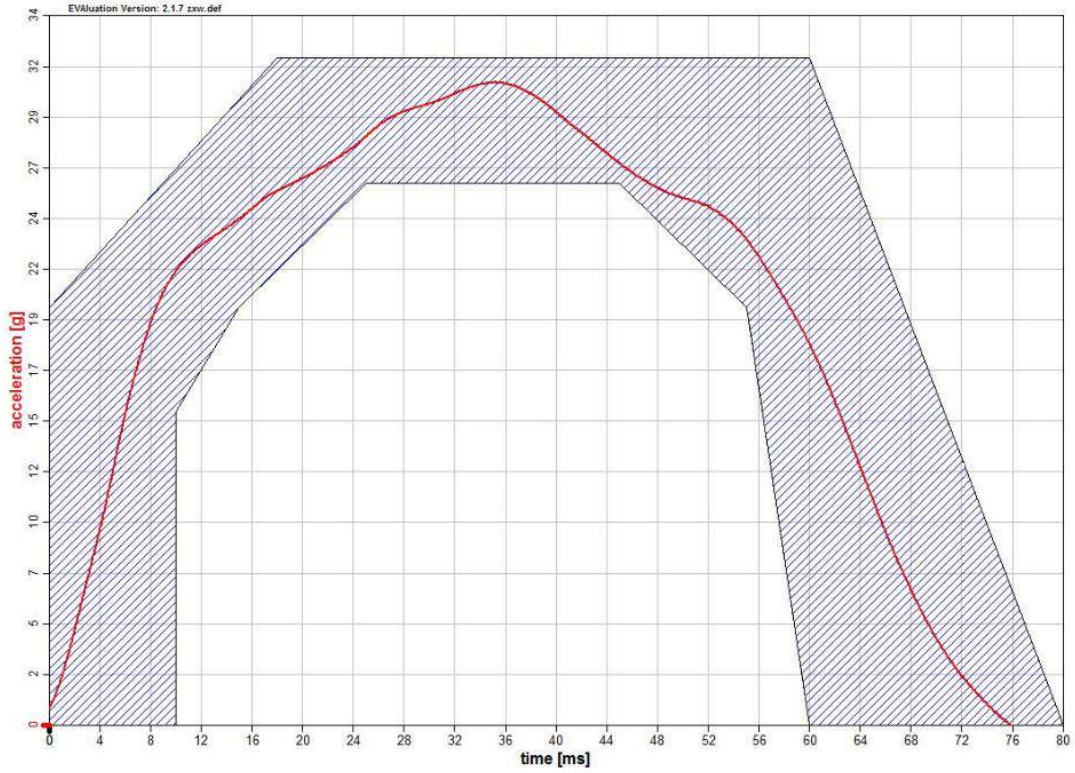


2#

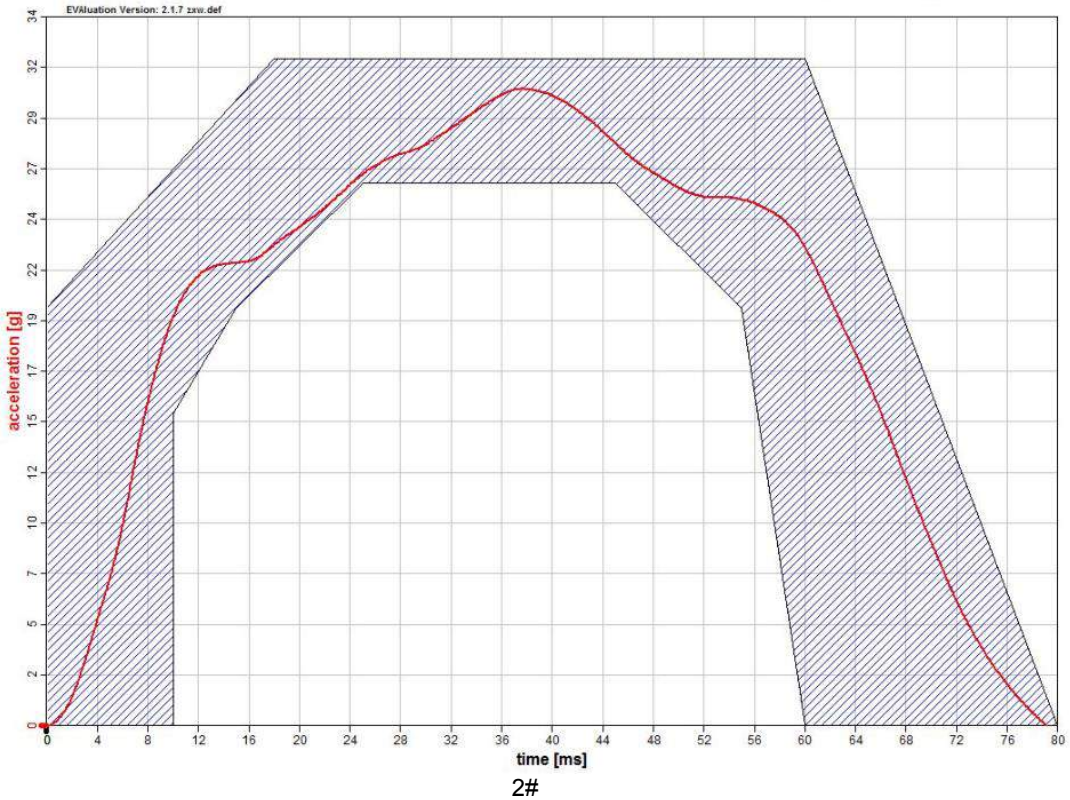
Variant B



CETOC Technical Service srl
Via della Bufalotta, 374,
00139 Roma

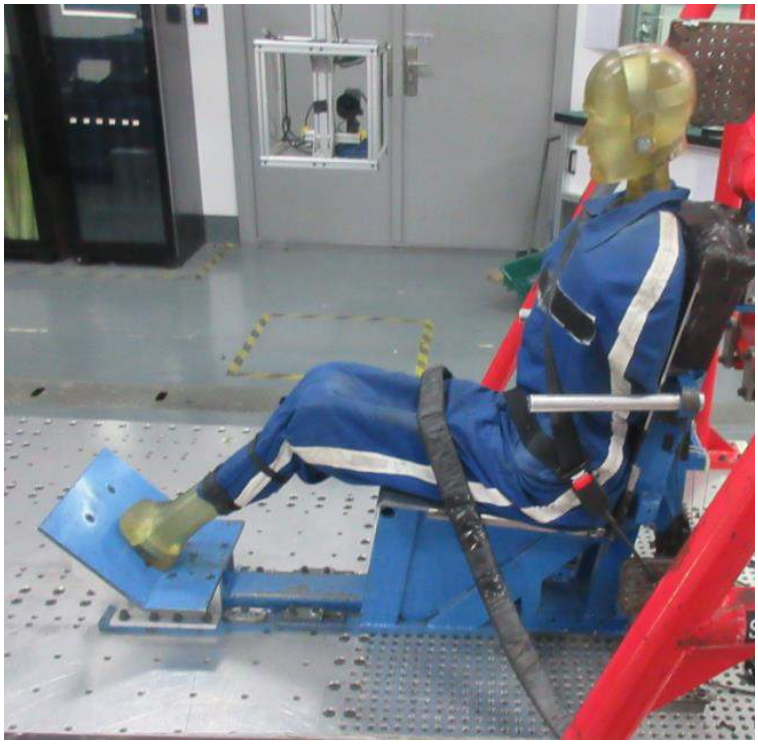


1#



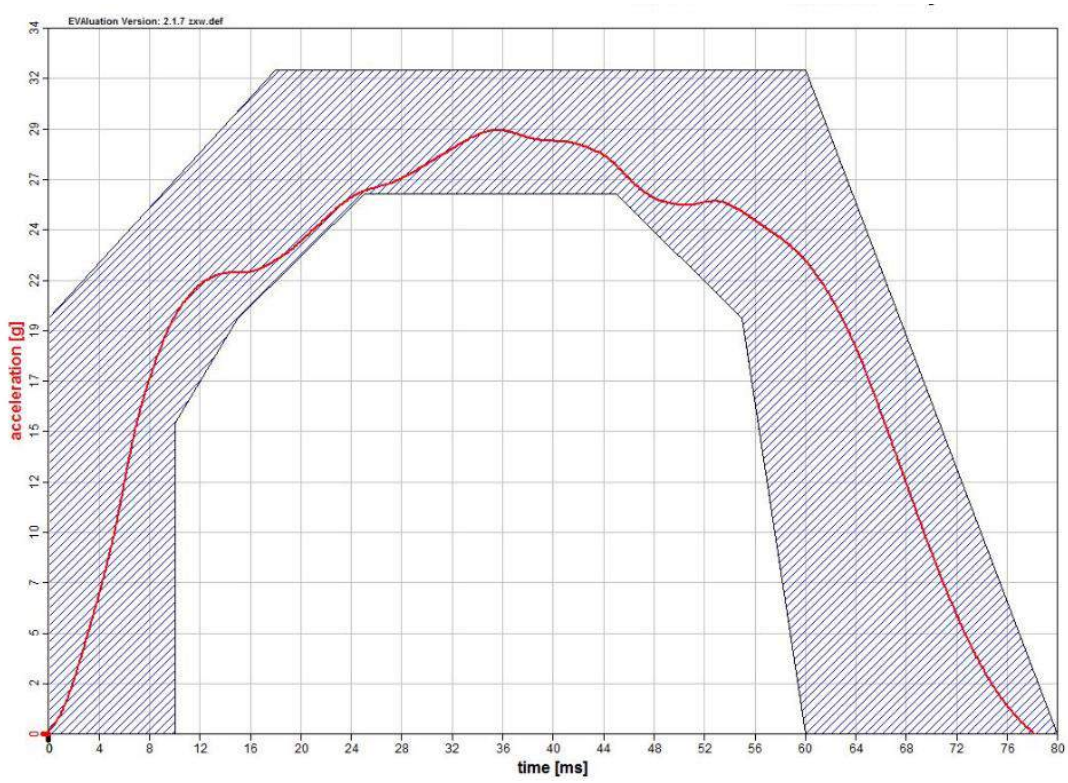
2#

Variant C



1#

CETOC Technical Service srl
Via della Bufalotta, 374,
00139 Roma



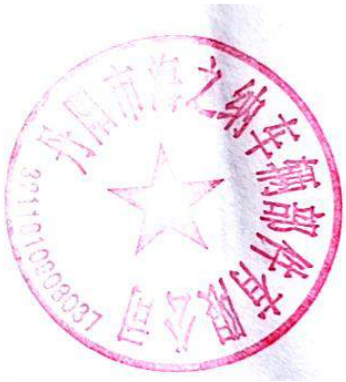
2#

INFORMATION DOCUMENT

Of

ECE REGULATION NO.16.08
UNIFORM PROVISIONS CONCERNING THE APPROVAL OF SAFETY-BELTS FOR ADULT OCCUPANTS OF POWER-DRIVEN VEHICLES

FOR PRODUCT TYPE:
HN-300-2



Responsible person: ChuShuiJun 储水军

Danyang City Hazna Vehicle Parts Co., Ltd.

0. GENERAL

0.1.	Make (trade name of manufacturer):	Hazna
0.2.	Type:	HN-300-2
0.2.1.	Variant(s):	See page 16
0.5.	Name and address of manufacturer:	Danyang City Hazna Vehicle Parts Co., Ltd. Fangnan Village, Fangxian Town, Danyang City, Jiangsu Province, China, 212321
0.7.	Location and method of affixing of ECE approval mark:	Label stitched on the webbing close to belt anchor bracket.
0.8.	Address(es) of assembly plant(s):	See 0.5.
0.9.	Name and address of manufacturer's representative:	n.a.

1. LIST OF VEHICLE(S) TO WHICH THE DEVICE IS INTENDED TO BE FITTED (if applicable)

Vehicle category:	M1/M2/M3/N1/N2
The safety belt is intended for use:	General use
Location:	Front row L/R, Back row L/R

2. DESCRIPTION OF THE DEVICE

2.1.	Safety belt	
2.1.1.	Configuration of safety belt (two-point belt, three-point belt, static, automatic):	The assembly is of a three-point lap and diagonal configuration providing pelvic and upper torso restraint. The long end assembly comprises of an emergency locking retractor. The short end assembly comprises ofsteel type buckle assembly.
2.1.1.1.	Category:	Ar4m
2.1.2.	Anchorage points:	1 anchorage point for the upper outer fixing - slip guide , 1 anchorage point for the lower outer fixing-anchor bracket, 1 anchorage point for the retractor; 1 anchorage point for the lower outer fixing - buckle assembly;

2.1.3. Details of webbing

Long-end assembly	
Length:	3500±500mm
Material:	Polyester, Piece Dyed
Weaving pattern:	2:2 Broken Twill (5 Panel)
Width:	46 – 48 mm
Colour:	Black/Gray/ Beige/Red
Reference (P/N etc.):	HN-300-023
Buckle assembly:	N/A
Length:	N/A
Material:	N/A
Weaving pattern:	N/A
Width:	N/A
Colour:	N/A
Reference (P/N etc.):	N/A

2.1.4. Type of retractor (designation of retractor): Ar4m

Mechanism:	
Vehicle Sensitivity:	≤ 0.45g
Webbing Sensitivity:	≥0.8g and ≤3.0g.
Inclination in relation to transversal:	90°
İnclination in relation to longitudinal:	90°

2.1.4.1. Information on additional functions, if applicable: N/A

2.1.5. Drawing of the rigid parts: See Appendix 1, Drawings

2.1.6. Diagram of the safety belt assembly enabling identification and location of rigid parts: See Appendix 1, Drawings

2.1.7. Mounting instructions showing, inter alia, the installation of the retractor and its sensing device: See Appendix 2,Anchorage Point Details

2.1.8. If a device for adjusting the belt height is present, state whether it is considered to be part of the belt: N/A

Travel:	N/A
Number of positions:	N/A
Assembly bolts:	N/A

2.1.9. In the case of a pre-loading device or system, a full technical description of the construction and function including any sensing device, describing the method of activation and any necessary method to avoid inadvertent activation: N/A

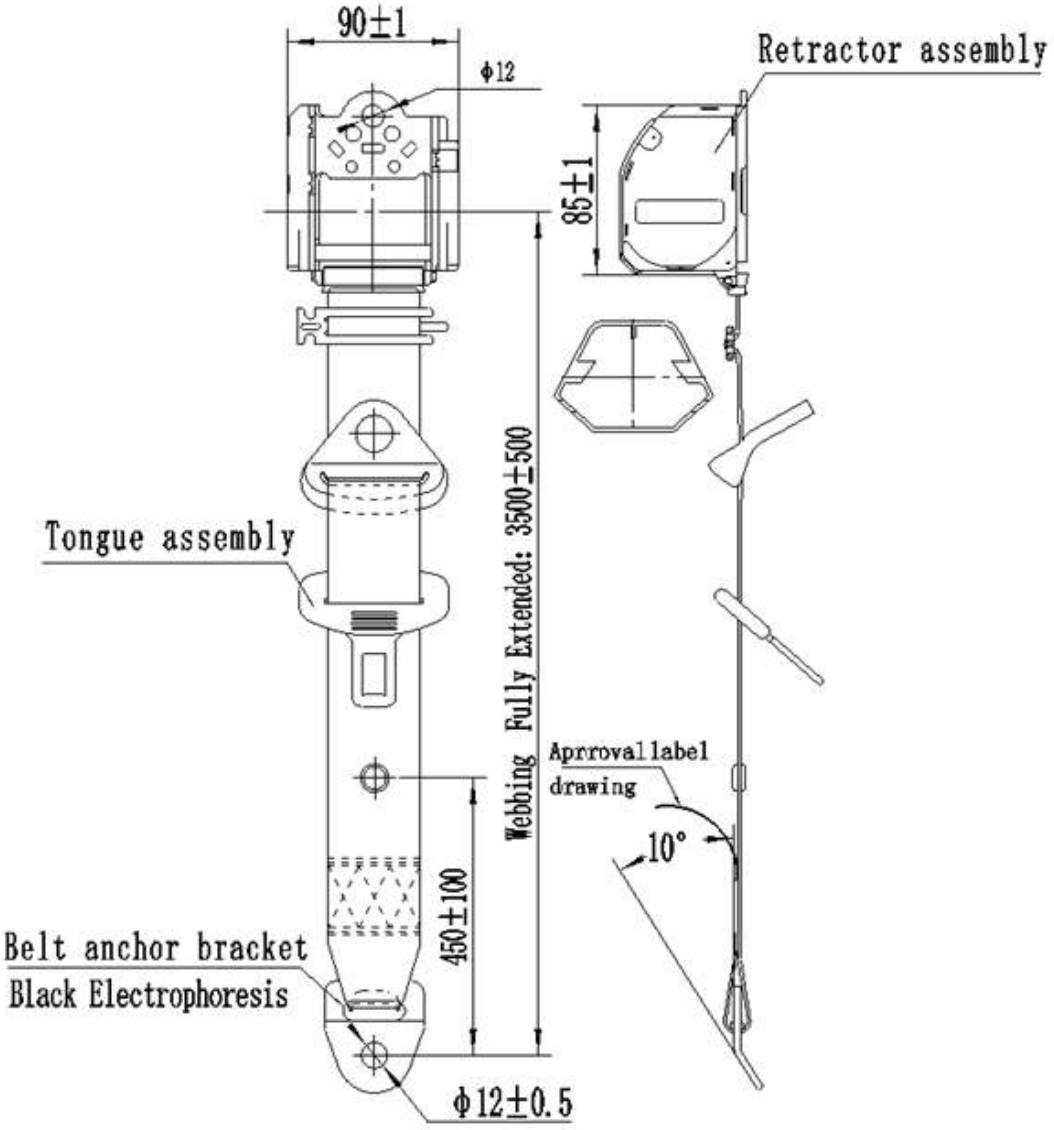
Note This seat belt is not made up of materials with properties of Polyamide 6as regards water retention.These materials are prohibited in all mechanical parts for which such aphenomenon is likely to have an adverse effect on their operation.

Appendix 1: Drawings

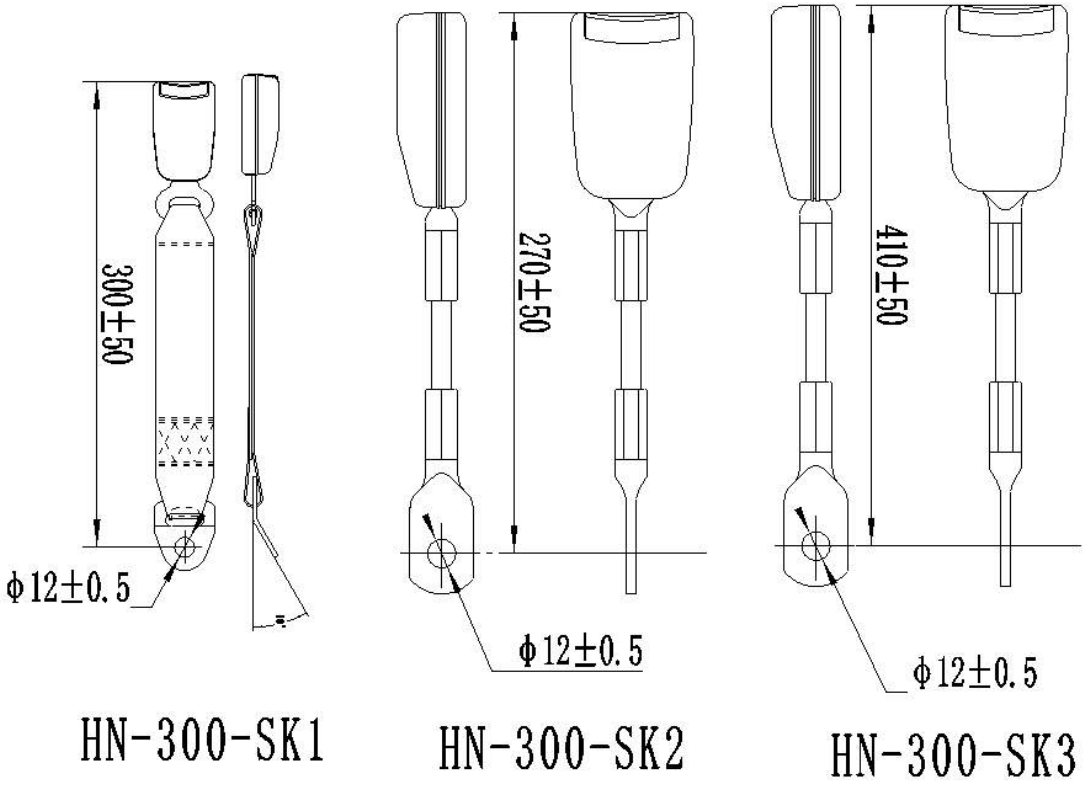
Description	Part Number
Photograph of the safety-belt assembly	-
Long-end assembly	HN-300-2
Buckle assembly	HN-300-SK1 /HN-300-SK2/ HN-300-SK3
Retractor assembly	HN-300-2
Tongue assembly	HN-300-030
Belt anchor bracket	HN-300-032
Buckle anchor bracket	HN-300-SK1 /HN-300-SK2/ HN-300-SK3
Slip Guide	HN-300-026
Height adjustment device	N/A
Webbing details	-
ECE approval mark label	-

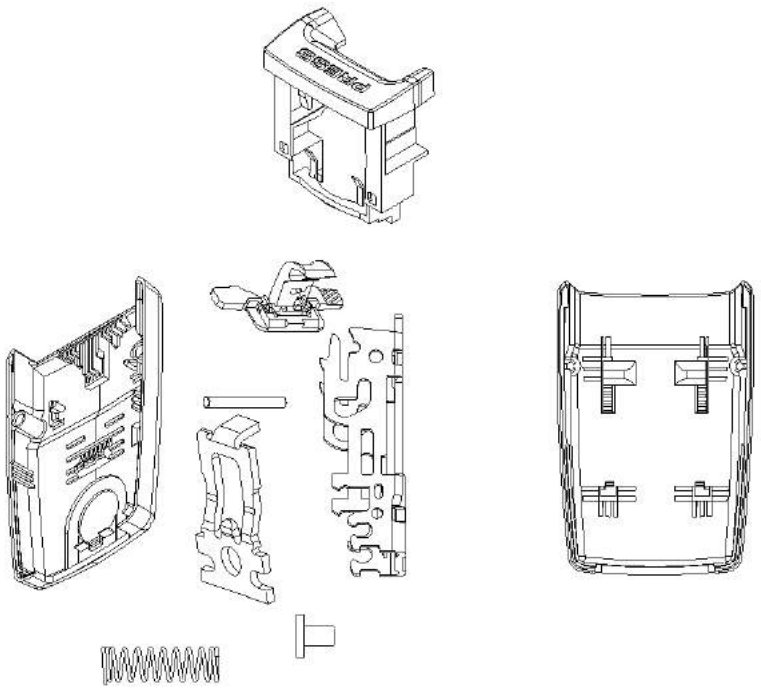
Photograph of the safety-belt assembly

Long-end assembly

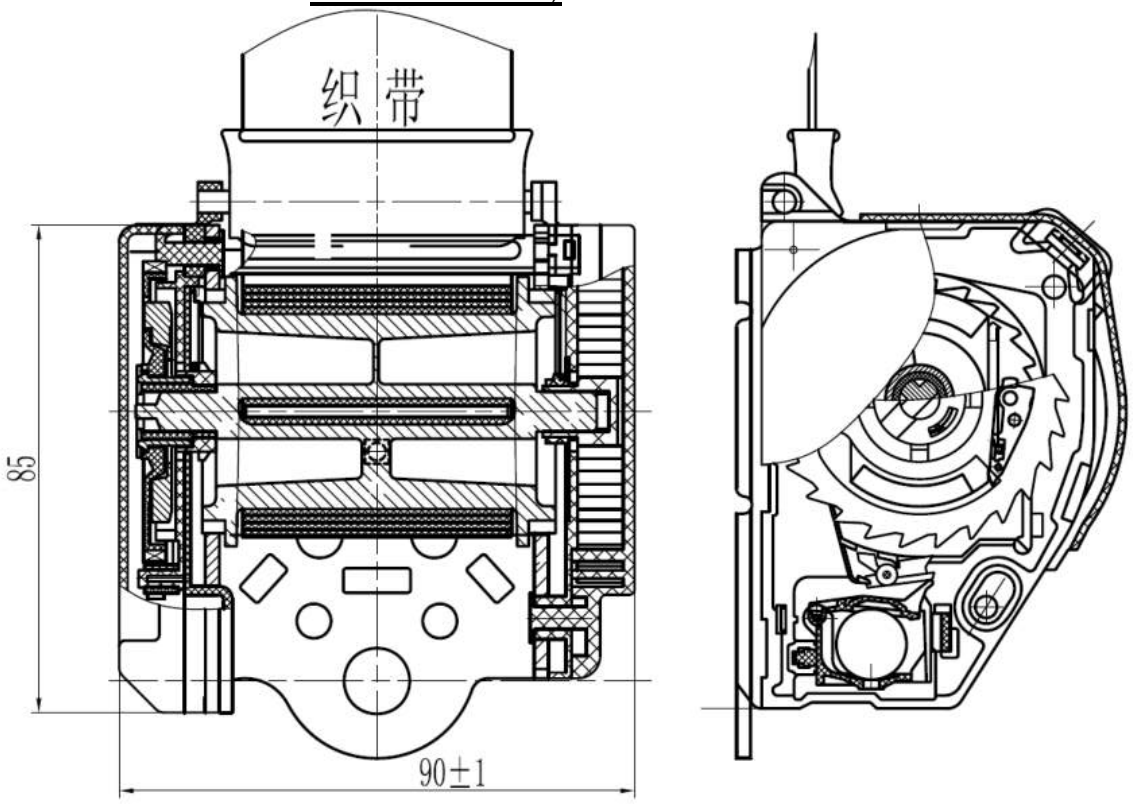


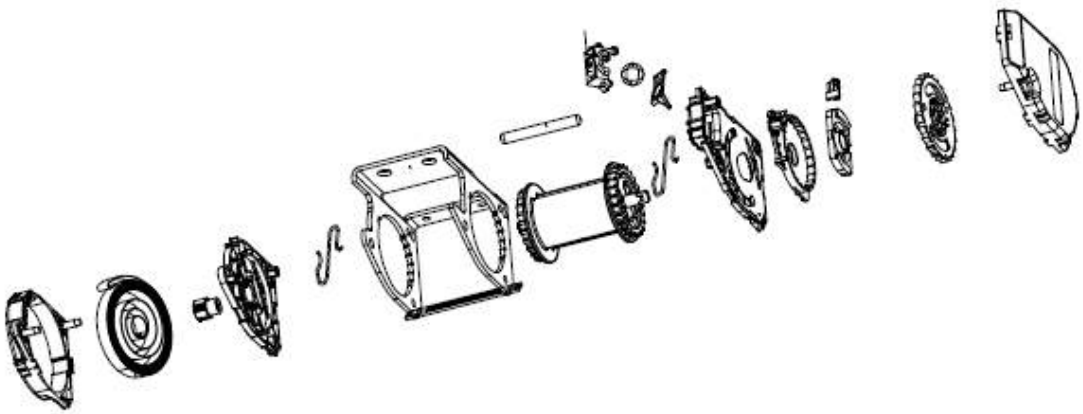
Buckle assembly



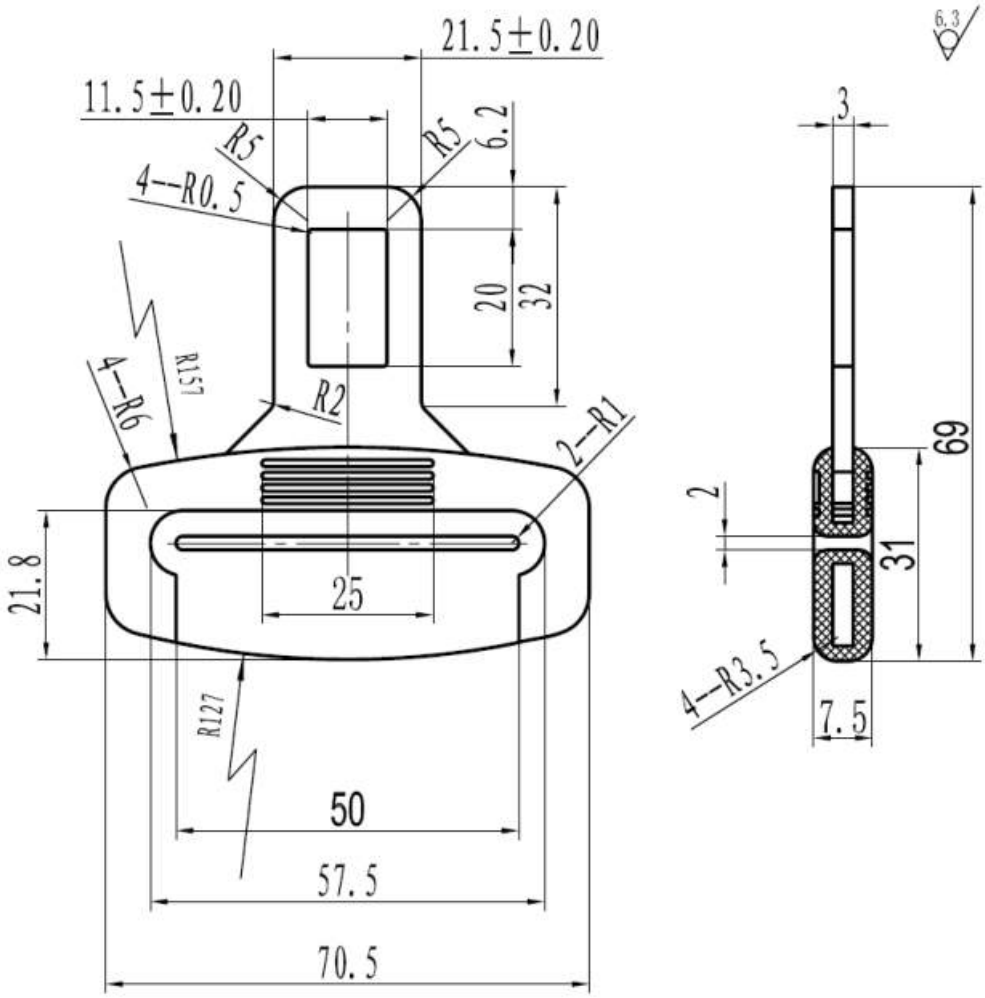


Retractor assembly

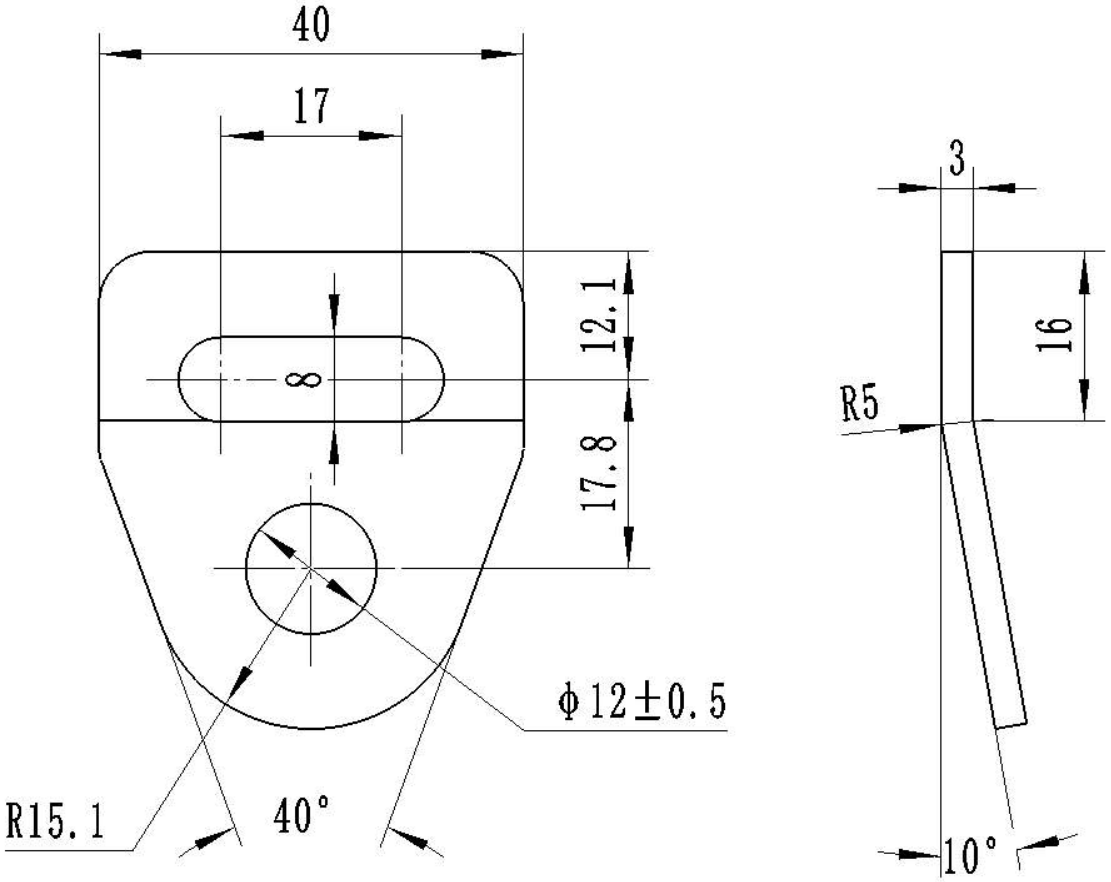




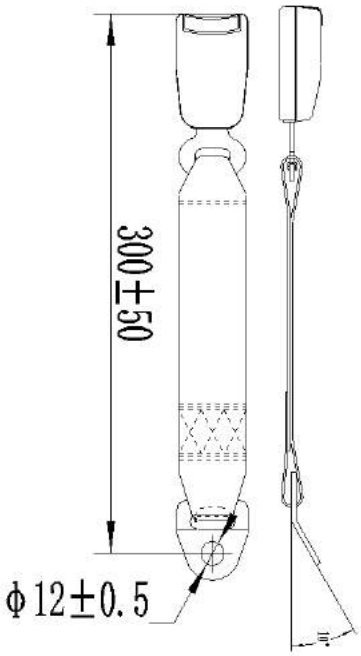
Tongue assembly

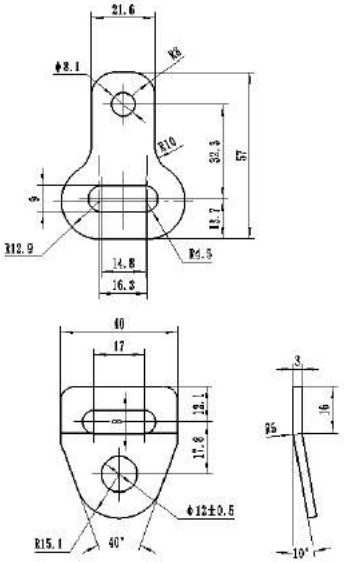


Belt anchor bracket

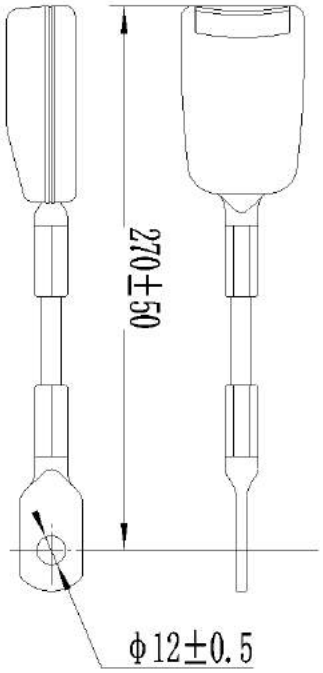


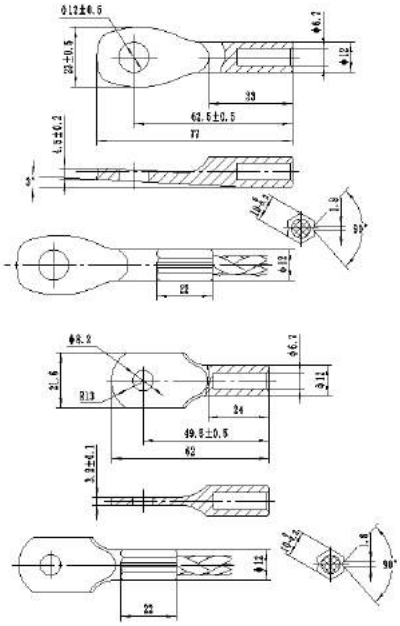
Buckle anchor bracket



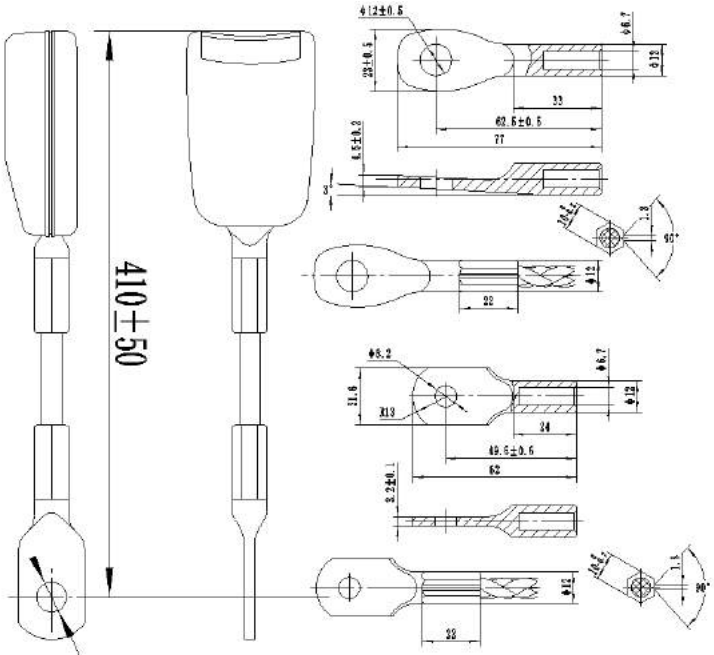


HN-300-SK1



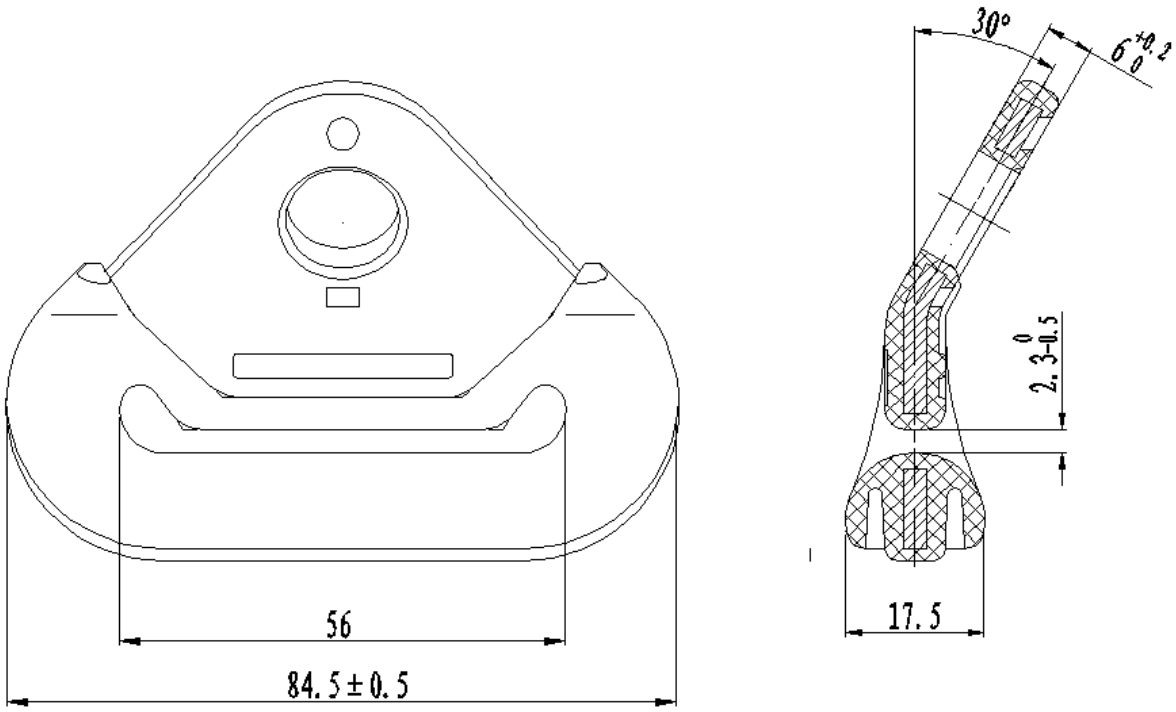


HN-300-SK2

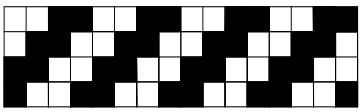


ϕ12±0.5 HN-300-SK3

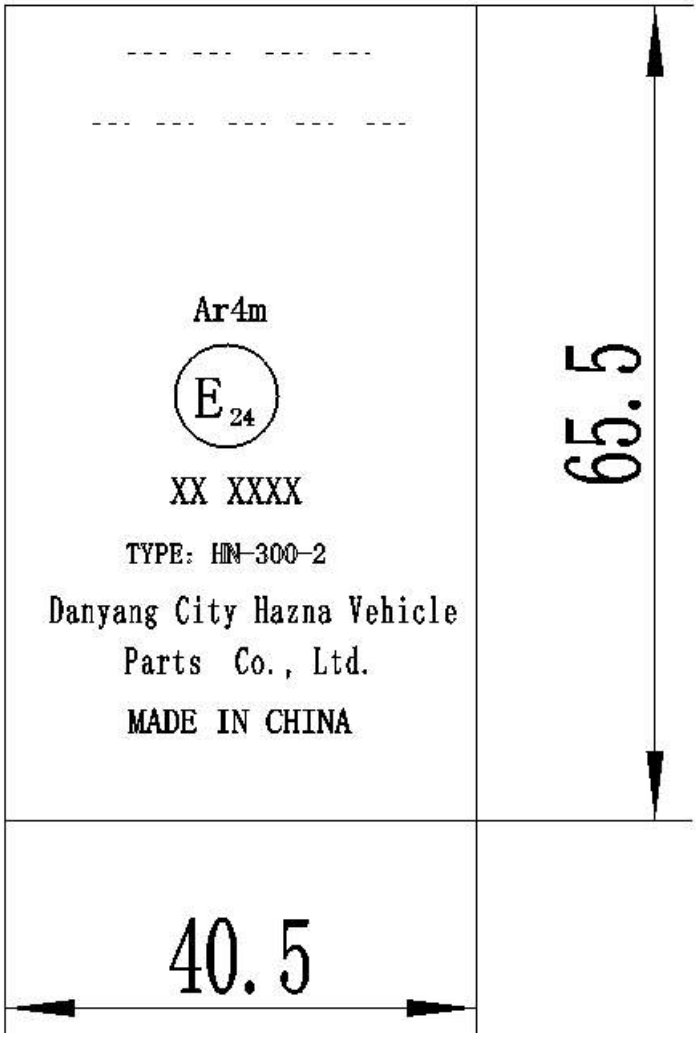
Slip guide assembly



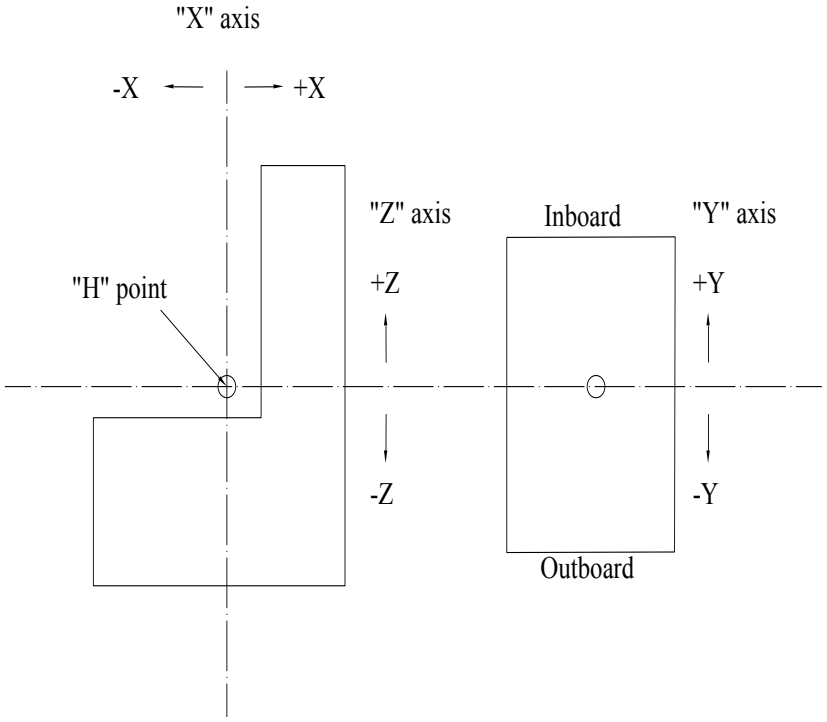
Webbing details

Material	Polyester
Webbing specification	HN-300-023
Color	Black /Gray/ Beige/Red
Weaving pattern	
Warp yarn	1111dtex
Weft yarn	555dtex
Thread count	Warp: 70-80,Weft:19-21picks/inch
Width	46~48mmm
Thickness	1.05-1.25mm

ECE approval mark label



Appendix 2: Anchorage Point Details



VEHICLE	:	Gneral use
SEAT POSITION	:	Front row left or right, Back row left or right
SEAT MOVEMENT	:	N/A
SEAT REFERENCE POINT	:	H point
RESTRAINT	:	N/A

Anchorage Point A:

Each anchorage points in relation to H-point (in mm)	(Transverse) "X" – AXIS	(Longitudinal) "Y" – AXIS	(Horizontal) "Z" – AXIS
LOWER INNER ANCHORAGE (Buckle)	95	±200	-90
RETRACTOR ANCHORAGE	160	±260	-170
LOWER OUTER ANCHORAGE (Anchor Bracket)	40	±260	-230
SLIP GUIDE ANCHORAGE	180	±260	620

Anchorage Point B

Each anchorage points in relation to H-point (in mm)	(Transverse) "X" – AXIS	(Longitudinal) "Y" – AXIS	(Horizontal) "Z" – AXIS
LOWER INNER ANCHORAGE (Buckle)	195	±210	-135
RETRACTOR ANCHORAGE	160	±260	-170
LOWER OUTER ANCHORAGE (Anchor Bracket)	40	±260	-230
SLIP GUIDE ANCHORAGE	180	±260	620

Variant explanation

Variant	Anchorage point	Buckle connection type	Buckle Length	Installation angle	Webbing length
Variant A	Anchorage point A	Webbing buckle	300mm	90°/90°	3500mm
Variant B	Anchorage point A	Steel wire buckle	410mm	90°/90°	3500mm
Variant C	Anchorage point B	Steel wire buckle	270mm	90°/90°	3500mm