

**THE NETHERLANDS
(N E D E R L A N D)**



COMMUNICATION

Concerning ⁽¹⁾:

- approval granted
- ~~approval extended~~
- ~~approval refused~~
- ~~approval withdrawn~~
- ~~production definitively discontinued~~

of restraining devices for child occupants of power-driven vehicles, pursuant to Regulation number 129.

Approval number: E4*129R03/01*0052*00

- 1.1. Forward-facing Enhanced Child Restraint System/rearward-facing Enhanced Child Restraint System ~~lateral facing Enhanced Child Restraint System;~~
- 1.2. Integral/~~Non-integral~~ ⁽¹⁾
- 1.3. Belt type : ~~(adult) three-point belt/(adult) lap belt/ special type belt/retractor~~ ⁽¹⁾
- 1.4. Other features : chair assembly/~~impact shield~~ ⁽¹⁾
- 2. Trade name or mark : Kissing Baby, 4KRAFT, AHS BABY, B01, ASALVO, Anpanman, AVANTI, BABY 1st, B&BABYBUS, B@B WORLD, BABIDEAL, Baby, BABY DESIGN, BABY DIREKT, BABY ELEGANCE, Baby Kit's, BABY LEE, BABY MONSTER, BABY ONE, BABY POINT, BABY SAFE, baby&plus, babyauto, babydesign, BABYELLE, BABYHIT, babyhome, Babylala, BABYRELAX, be cool, Bambino, BAMBINO WORLD, bebe, Bebe Stars, Bebe style, BEBE9, BEBE9 EXPERT, BEBEDUE, Bebehut, Cam, BEBEQO, BEBESAF, BEBESEGUTO, BQS, BEBETON, BERTONNE, BOMIKO, BREVI, Caretero, CANGAROO, BUDDY, BYBERIT, CARBINO, coletto, COSATTO, Chabibow, CASUALPLAY, CHIPOLINO, CHIPOLINO CLASSIC, CONECO, confort, COOL KIDS, COSATTO, cosco, Cozy N Safe, Cuddleco,



DIVICAR, DUMBO, Elegance, EUROBIMBO, FAIRGO, Halfords, FD DESIGN, FIBERO, FISHER DESIGN, harmony, HABER -KORN, FOPPAPEDRETTI, FORMULA BABY, Highback Seat, I BABY, Infantastic, Infanti, Infantia, Inglesina, INNOVACIONES M.S.S.L, jane, IO BIMBO JUNIOR, JETEM, John Lewis, JOYELLO BIMBI IN ITALY, JUNIORS, just baby, Kidd, KIDDCARE, LAMA, Kikkaboo, kind Comfort, KINDERKRAFT, klippan, KOML KIDS II, Koochi, KOOL TRADE, LAPSI, KU-KU DUCKBIL, LADITO, LECOCOBABY, LILLY&MARC, LORELLI, LOVE WORLD, LUCKYSTAR, MAMAMAIA BABY, MARS DESIGN, MAXICOSI, MEE MEE, Nattou, MONBEBE, MONITRADE, MOTHER BABY, nurse, MY CHILD, Mothercare, MS, NICE IDEAS, OBABY, PHIL & TED, PARENT, PIERRE CARDIN ENFANTS, pampero, Pierre Cardin KANZ, PIERRE CARDIN PARIS, Pilsan, PLAY, PLAYXTREM, POPART, PREMAMAN, PUKU, RED KITE, 4BABY, PrivateLabels, SAFECRUISE, SAFETY 1st, SAFEWAY, SEE BABY, SNAPKIS, Sumex, SUPER NANNY, SUNNYLOVE, Titanium Bebylux, TOP MARK, TITYWORLD, TRULO ISRAEL, TONYBEAR, TOURAGOO, TOYS R US. TRILLE, TROTTINE, XADVENTURE, XTREME BABY, ZEKIWA, ZOOOPER, bbqool, tuctuc, vivitta, bene baby, king baby, mega baby, mee-go, osann, migo, booboo, turn isize, safetybaby, babyblume, swing isize

3. Manufacturer's designation of the Enhanced Child Restraint System : KX-88
4. Manufacturer's name : Ningbo Kangxin Children Product Co., Ltd.
5. If applicable, name of his representative : --
6. Address : Meihu Village, Henghe Town, Cixi City, Zhejiang Province, 315318 China
7. Submitted for approval on : Sept 2018. - July 2019
8. Technical service conducting approval tests : SGS-TÜV Saar GmbH
: Hofmannstr. 50
D – 81379 München
9. Type of device : deceleration/acceleration⁽¹⁾
10. Date of test report issued by that service : Jan. 06, 2020
11. Number of test report issued by that service : HOM ECN T19/135-00



Approval number: E4*129R03/01*0052*00

12. Approval : granted/~~extended/refused/withdrawn~~⁽¹⁾ for size range 40cm to 105cm for i-Size ~~specific vehicle~~ or for use as a 'special needs restraint', position in vehicle
13. Position and nature of the marking : Stick on the rear of base
14. Place : Zoetermeer
15. Date : 14 February 2020
16. Signature :



T. H. K. Spatz

17. The following documents, bearing the approval number shown above, are attached to this communication:
- (a) Drawings, diagrams and plans of the Enhanced Child Restraint System, including any retractor, chair assembly, impact shield fitted;
 - (b) Drawings, diagrams and plans of the vehicle structure and the seat structure, as well as of the adjustment system and the attachments, including any energy absorber fitted;
 - (c) Photographs of the Enhanced Child Restraint System and/or vehicle structure and seat structure;
 - (d) Instructions for fitting and use;
 - (e) List of vehicle models for which the restraint is intended.

⁽¹⁾ Strike out what does not apply.

Technical Report

Test standard:
ECE-R 129

Level of amendment:
Amendments 03, Supplement 01

Title:
Enhanced Child restraint system

Manufacturer:
Ningbo Kangxin Children Product Co., Ltd.

Type:
KX-88

Subject of testing:
Component

0 General

- 0.1 Make (trade name of manufacturer): Ningbo Kangxin Children Product Co., Ltd.
- 0.2 Type: KX-88
- 0.2.1 Commercial description: Kissing Baby, 4KRAFT, AHS BABY, Anpanman, ASALVO, AVANTI, B&BABYBUS, B@B WORLD, B01, BABIDEAL, Baby, BABY 1st, BABY DESIGN, BABY DIREKT, BABY ELEGANCE, Baby Kit's, BABY LEE, BABY MONSTER, BABY ONE, BABY POINT, BABY SAFE, baby&plus, babyauto, babydesign, BABYELLE, BABYHIT, babyhome, Babylala, BABYRELAX, be cool, Bambino, BAMBINO WORLD, bebe, Bebe Stars, Bebe style, BEBE9, BEBE9 EXPERT, BEBEDUE, Bebehut, BEBEQO, BEBESAF, BEBESEGUTO, BEBETON, BERTONNE, BOMIKO, BQS, BREVI, Cam, Caretero, CANGAROO, BUDDY, BYBERIT, CARBINO, coletto, COSATTO, Chabibow, CASUALPLAY, CHIPOLINO, CHIPOLINO CLASSIC, CONECO, confort, COOL KIDS, COSATTO, cosco, Cozy N Safe, Cuddleco, DIVICAR, DUMBO, Elegance, EUROBIMBO, FAIRGO, Halfords, FD DESIGN, FIBERO, FISHER DESIGN, harmony, FOPPAPEDRETTI, FORMULA BABY, HABER -KORN, Highback Seat, I BABY, Infantastic, Infanti, Infantia, Inglesina, INNOVACIONES M.S.S.L, jane, IO BIMBO JUNIOR, JETEM, John Lewis, JOYELLO BIMBI IN ITALY, JUNIORS, just baby, Kidd, KIDDCARE, LAMA, Kikkaboo, kind Comfort, KINDERKRAFT, klippan, KOML KIDS II, Koochi, KOOL TRADE, LAPSI, KU-KU DUCKBIL, LADITO, LECOCOBABY, LILLY&MARC, LORELLI, LOVE WORLD, LUCKYSTAR, MAMAMAIA BABY, MARS DESIGN, MAXICOSI, MEE MEE, Nattou, MONBEBE, MONITRADE, MOTHER BABY, nurse, MY CHILD, Mothercare, MS, NICE IDEAS, OBABY, PHIL &TED, PARENT, PIERRE CARDIN ENFANTS, pampero, Pierre Cardin KANZ, PIERRE CARDIN PARIS, Pilsan, PLAY, PLAYXTREM, POPART, PREMAMAN, PUKU, RED KITE, PrivateLabels, SAFECRUISE, SAFETY 1st, SAFEWAY, SEE BABY, SNAPKIS, Sumex, SUPER NANNY, SUNNYLOVE, Titanium Bebylux, TOP MARK, TITYWORLD, TONYBEAR, TOURAGOO, TOYS R US. TRILLE, TROTTINE, TRULO ISRAEL, tuctuc, vivitta, XADVENTURE, X-TREME BABY, ZEKIWA, ZOOOPER, bbqool, bene baby, king baby, mega baby, mee-go, osann, migo, safetybaby, babyblume, booboo, 4BABY, swing isize, turn isize
- 0.3 Means of identification of type, if marked on the vehicle: Type designation
- 0.3.1 Location of that marking: Stick on the rear of ISOFIX base
- 0.4 Category of vehicle: n.a.

0.5	Manufacturer's name and address:	Ningbo Kangxin Children Product Co., Ltd. Meihu Village, Henghe Town, Cixi City, Zhejiang Province, 315318 China
0.8	Address of assembly plant:	Meihu Village, Henghe Town, Cixi City, Zhejiang Province, 315318 China
0.9	Name and address of representative:	n.a.
	Location of the ECE approval mark:	Stick on the rear of base

1 Test record

See appendix

2 Attachments

2.1 List of modifications: Refer to attachment 2.1

2.2 Information folder: No.: KX-88-00

Name: KX-88 Technical Document

Date of issue: 2019-09-20

3 Statement of conformity

The information folder as mentioned under no. 2.2 and the type described therein are in compliance with the test standard mentioned above.

With regard to the required level of performance to be achieved, the test specimen were representative for the type to be approved.

The tests were carried out in accordance to the relevant requirements of the

EN ISO/IEC 17025:2005 EN ISO/IEC 17020:2012

**Test Laboratory
 SGS-TÜV Saar GmbH**

notified by

Krafftahrt-Bundesamt (KBA),
 Federal Republic of Germany

National Standards
 Authority of Ireland (NSAI)

Rijksdienst voor het Wegverkeer
 (RDW),
 The Netherlands

No. KBA - P 00084 – 10

No. 101

No. 99050064 00

Responsible expert

Signature

Dipl. Ing. Lincoln Lin

Jan. 06, 2020



Conformity check

Signature

Perry Li



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Test record

1 Test conditions

1.1 Test component

1.1.1 Type: KX-88

1.1.2 Variant: n.a.

1.2 Test equipment

1.2.1 Parameter of the test area: In line with ECE-R129-01, article 7.1.3

1.2.2 Test equipment: deceleration device
 acceleration device

1.3 Features

1.3.1 Installation direction of the ECRS Forward-facing ECRS
 Rearward-facing ECRS
 Lateral-facing ECRS (carry-cot)

1.3.2 Class of the ECRS Integral
 Non integral

1.3.3 Category of the Integral ECRS i-Size ECRS
 Specific Vehicle ISOFIX ECRS

1.3.4 Anti-rotation device use with: A top-tether strap
 A support-leg

1.3.5 Size range 40cm – 60cm
 60cm – 75cm
 75cm – 87cm
 87cm – 105cm
 105cm – 135cm
 >135cm

2 Test results

Numbers in [] are related to requirements of the UN Regulation

2.1 Checking of labels on the ECRS

[4]

2.1.1 [4.1]	Name or trade name	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.1.2 [4.2]	Year of production	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.1.3 [4.3]	ECRS orientation, Size range, maximum occupant mass, visibility of the marking	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.1.4 [4.4]	Warning Label "Airbag", material and fixation of the label	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.1.5 [4.5]	Warning Label of forward facing ECRS for child less than 15 months	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.1.6 [4.6]	Webbing Path. The marking shall be permanently and durably attached and visible. The marking shall be placed on both sides of ECRS. There shall be a clear differentiation of the lap and diagonal section of safety-belt.	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.1.6.1 [4.6.1]	The marking shall be on belt guide and lock off device. The route marking width shall be wider than webbing path.	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.

2.1.6.2 [4.6.2]	For Non-Integral ECRS, the webbing path shall be marked on the product. The colour used for marking shall be green.	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.1.6.3 [4.6.3]	For Integral belted ECRS, the webbing path shall be marked on the product. The colour used for marking shall be green.	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.1.7 [4.7]	Marking for Integral ECRS including ISOFIX Connections	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.1.7.1 [4.7.1]	i-Size ECRS Logo	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.1.7.2 [4.7.2]	Specific Vehicle ISOFIX ECRS. ISOFIX logo and user instruction	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.1.7.3 [4.7.3]	Approval mark on ISOFIX base in case ECRS containing modules	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.1.7.4 [4.7.4]	Module mark on the module of ECRS	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.1.8 [4.8]	Marking for Non-integral ECRS	
2.1.8.1 [4.8.1]	i-Size booster seat instruction label	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.1.8.2 [4.8.2]	Specific vehicle booster seat instruction label	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.

2.1.9 [4.9]	An impact shield label	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.1.10 [4.10]	ECRS label about information of entire stature range	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.1.11 [4.11]	Marking for Integral belted ECRS	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.1.12 [4.12]	Additional Markings	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2 [6]	Testing of general specifications on the ECRS	
2.2.1 [6.1]	Positioning and securing in the vehicle	
2.2.1.1 [6.1.1]	Seat position for ECRS in the i-Size category in the vehicle seat positions according manufacturer's instructions	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
	Seat position for CRS in the "specific vehicle ISOFIX" category	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.2.1.2 [6.1.2]	Securing of the integral ECRS	
2.2.1.2.1 [6.1.2.1]	For i-Size category, by means of two ISOFIX attachments with additional anti-rotation device	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.1.2.2 [6.1.2.2]	For the "specific vehicle ISOFIX" category, secured to ISOFIX anchorages designed by the manufacturer	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.

2.2.1.2.3 [6.1.2.3]	For the "Universal Belted" category, this shall be by means of the adult safety-belt only.	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.2.1.2.4 [6.1.2.4]	For the "Specific vehicle Belted" category, this shall be primarily by means of the adult safety-belt.	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.2.1.2.5 [6.1.2.5]	Integral ECRS of the Belted categories shall have only 1 adult safety-belt route and a main contact point which shall not be less than 150mm from Cr axis.	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.2.1.2.6 [6.1.2.6]	Belted Integral ECRS secured on test bench.	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.2.1.2.7 [6.1.2.7]	The ECRS for children less than the age of 15 months shall be used reward-facing or lateral facing	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
	- Rearward facing ECRS designed for children up to 15 months, minimum accommodated stature shall be 83cm	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
	- Forward facing ECRS shall not accommodate the child stature below 76cm	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
	- Convertible ECRS in rearward facing configuration shall accommodate a child with minimum stature 83cm. The stature can be greater than 83cm.	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.1.3 [6.1.3]	Non-integral ECRS and child secured in seating position	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.2.2 [6.2]	Configuration of the CRS	

2.2.2.1 [6.2.1]	Configuration requirement	
2.2.2.1.1 [6.2.1.1]	Required protection in any intended position	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.2.1.2 [6.2.1.2]	Easy and quick installation and removal	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.2.1.3 [6.2.1.3]	Adjusting inclination of CRS shall not require manual readjustment of any other part of the ECRS	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.2.1.4 [6.2.1.4]	In the case of integral forward-facing ECRS, a crotch strap of harness belt system shall be required (as short as possible)	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.2.1.5 [6.2.1.5]	For all restraint devices utilizing a „lap strap“ must positively guide the „lap strap“ to ensure that the loads transmitted by the „lap strap“ are transmitted through the pelvis	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
	The assembly shall be so designed that compression loads not be imposed on the crown of the child’s head	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.2.1.6 [6.2.1.6]	All straps of the restraint shall be so placed that they cannot cause discomfort to the wearer in normal use or assume a dangerous configuration, shoulder-straps do not touch the neck	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.2.1.7 [6.2.1.7]	All straps of the restraint shall be so placed to avoid discomfort to wearer. Y-shaped belts may only be used in rearward-facing or lateral-facing ECRS.	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.

2.2.2.1.8 [6.2.1.8] When the crotch strap adjusts to its longest position, the lap strap shall not lie above the pelvis of both dummies of the approved size range, for forward-facing restraints, in any time the lap strap shall not lie above the pelvis of both dummies.

fulfilled
 Not fulfilled
 n.a.

2.2.2.1.9 [6.2.1.9] During the dynamic test, the lap belt shall not pass beyond the pelvic structure of the dummy prior to time of maximum horizontal head excursion.

fulfilled
 Not fulfilled
 n.a.

2.2.2.1.10 [6.2.1.10] ECRS adjuster device conditioning test shall be performed in advance on sample of worst-case configuration of the dynamic test

fulfilled
 Not fulfilled
 n.a.

2.2.2.2 [6.2.2] Design and installation of the ECRS

2.2.2.2.1 [6.2.2.1] No damage to vehicle-seat covers or to occupants clothing

fulfilled
 Not fulfilled
 n.a.

2.2.2.2.2 [6.2.2.2] No belt rubbing on sharp edges

fulfilled
 Not fulfilled
 n.a.

2.2.2.3 [6.2.3] Any components not detachable designed shall only be removed by use of specific tools

fulfilled
 Not fulfilled
 n.a.

Configuration of detachable parts shall be error-proofing designed
 Harness belt shall be adjustable in its full range without disassembly

2.2.2.4 [6.2.4] Terms of additional restraining devices of „Special Needs Restraints“

fulfilled
 Not fulfilled
 n.a.

- | | | | |
|------------------------|---|---|------------------------------------|
| 2.2.2.5
[6.2.5] | Terms for use of ECRS in any size range specified by the manufacturer | <input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/> | fulfilled
Not fulfilled
n.a. |
| 2.2.2.6
[6.2.6] | Terms for ECRS with inflatable elements | <input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/> | fulfilled
Not fulfilled
n.a. |
| 2.2.3
[6.3] | ECRS Specifications | | |
| 2.2.3.1
[6.3.1] | Material | | |
| 2.2.3.1.1
[6.3.1.1] | Conformity of toxicity of materials | <input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/> | fulfilled
Not fulfilled
n.a. |
| 2.2.3.1.2
[6.3.1.2] | Flammability declaration for conformity | <input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/> | fulfilled
Not fulfilled
n.a. |
| 2.2.3.2
[6.3.2] | General Characteristics | | |
| 2.2.3.2.1
[6.3.2.1] | Internal Geometric Characteristics | <input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/> | fulfilled
Not fulfilled
n.a. |

Class	Internal Geometric Characteristics	Dimension [cm]
Integral Stature 40-105mm	Shoulder breadth minimum	33.5
	Hip breadth minimum	26.3
	Sitting height minimum	49.2
	Shoulder height minimum	28.8
	Shoulder height maximum	39.5

2.2.3.2.2 [6.3.2.2]	External Dimensions	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.3.2.3 [6.3.2.3]	Mass. The mass of ECRS combined with the mass of largest child shall not exceed 33kg.	Largest child: 19 Kg <input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.3.3 [6.3.3]	Regulations for ISOFIX Attachments	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.3.4 [6.3.4]	ISOFIX ECRS Top Tether Strap Specifications	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.2.3.5 [6.3.5]	i-Size ECRS Support-leg and foot Requirements	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.3.5.1 [6.3.5.1]	Support leg and Foot Geometrical Requirements	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.3.5.2 [6.3.5.2]	Support leg Foot Adjustability Requirements	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.3.5.3 [6.3.5.3]	Support-leg Foot Dimensions	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.3.5.4 [6.3.5.4]	Terms of Support-leg Foot Jig	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.

2.2.4 Control of Markings See no. 2.1
[6.4]

2.2.5 Check of instructions on installation and use See no. 2.5
[6.5]

2.2.6 Provisions applicable to the assembled restraint
[6.6]

2.2.6.1 Resistance to corrosion fulfilled
[6.6.1] Not fulfilled
 n.a.

2.2.6.2 Energy absorption fulfilled
[6.6.2] Not fulfilled
 n.a.

deceleration of internal surfaces in accordance with annex 13, Desired value < 60 g **13.43 g**

lining in accordance with annex 14 bullet 1 fulfilled
 Not fulfilled
 n.a.

side wing in accordance with annex 14 bullet 2 fulfilled
 Not fulfilled
 n.a.

2.2.6.3 Overturning
[6.6.3]

Mass of the manikin [kg] Anchorage maximum moving of the manikins head from its original position in a vertical direction relative to the test seat specified value ≤ 300 mm with additional 4 times load of dummy weight

forward rearward left Right

Q0 Rear facing	H ₁ , H ₂	135	137	123	126
Q1.5 Rear facing	H ₁ , H ₂	120	122	113	114
Q3 Rear facing	H ₁ , H ₂	30	30	25	25

<p>for “Special Needs Restraint” CRS only the buckle on the primary means of restraint need comply with the requirements of paragraphs 6.7.1</p>	<p><input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.</p>	
<p>2.2.7.1.2 Requirements to the buckle handling [6.7.1.2]</p>	<p>even when not under tension, the buckle shall remain closed in whatever its position</p> <p>easy to operate and to grasp</p> <p>open it by pressure on a button or on a similar device</p> <p>dimension of the pressure surface for enclosed facilities not less than 15mm width and a surface with at least 4.5 cm²</p> <p>measurements of the pressure surface for non-enclosed facilities not less than 10 mm width and a surface with at least 2.5 cm²</p>	<p><input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.</p> <p><input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.</p> <p><input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.</p> <p><input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.</p>
<p>2.2.7.1.3 The buckle release area shall be [6.7.1.3] colored red, no other part shall be red</p>	<p><input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.</p>	
<p>2.2.7.1.4 Possibility to release the child from the [6.7.1.4] restraint by a single operation after shoulder strap positioner released</p> <p>Child can be removed with CRS by operation of a maximum of two buckles for infant carrier/ carry-cot</p>	<p><input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.</p> <p><input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.</p>	

2.2.7.1.4.1 [6.7.1.4.1]	Shoulder strap Positioner	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.2.7.1.4.2 [6.7.1.4.2]	Easy to operate and to grasp, open by one simple action, difficult for child occupant to release the device	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.2.7.1.4.3 [6.7.1.4.3]	Shoulder strap positioner Height <60mm	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.2.7.1.5 [6.7.1.5]	Opening of the buckle shall enable the child to be removed from the CRS	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
	crotch strap shall be released by operation of the same buckle	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.7.1.6 [6.7.1.6]	The buckle shall be capable of withstanding 5000 opening and closing cycles under normal conditions and the temperature test operation requirements given in paragraph 7.2.7	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.7.1.7 [6.7.1.7]	Buckle tests of opening force	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.7.1.7.1 [6.7.1.7.1]	Test under load –measuring values see annex A	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.7.1.7.2 [6.7.1.7.2]	Test no load; (Desired value, 40 - 80 N)	50N <input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.

2.2.7.1.8 [6.7.1.8]	Strength	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.	
2.2.7.1.8.1 [6.7.1.8.1]	No part of the buckle or the adjacent or adjusters shall break during the test of strength	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.	
2.2.7.1.8.2.1 [6.7.1.8.2.1]	Buckle shall withstand 4000 N for mass limit less or equal to 13 kg	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.	
2.2.7.1.8.2.2 [6.7.1.8.2.2]	Buckle shall withstand 10000 N for mass greater than 13 kg	<input type="checkbox"/> 1 <input type="checkbox"/> 2 holmbergs <input type="checkbox"/> 3 SHIELD <input type="checkbox"/> 4 <input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.	15287N 15293N 13220N 13370N
2.2.7.1.8.3 [6.7.1.8.3]	The competent authority may dispense with the buckle strength test if informations are already available	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.	
2.2.7.2 [6.7.2]	Adjusting device	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.	
2.2.7.2.1 [6.7.2.1]	The range adjustments shall be appropriate for all size of which the device is intended and to permit satisfactory installation in all specific vehicle models	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.	
2.2.7.2.2 [6.7.2.2]	All adjusting devices of the type „quick adjuster“ (except that adjusting devices used only for the initial	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.	

installation of the restraint in the vehicle)

2.2.7.2.3 [6.7.2.3]	Easy to reach „quick adjuster“ when the child restraint is correctly installed and child or manikin is in position	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.7.2.4 [6.7.2.4]	Quick adjuster shall be easily adjustable to the childs physique, Desired value < 50 N	17N <input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.7.2.5 [6.7.2.5]	Microslip (desired value< 25 mm for single) according to paragraph 7.2.3; temperature test operation requirements given in paragraph 7.2.7.1	0mm <input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.7.2.6 [6.7.2.6]	Neither breaking nor detaching of the adjustment device when tested in paragraph 7.2.2.1	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.7.2.7 [6.7.2.7]	CRS central adjuster is capable of withstanding 5000 repeated operations before dynamic test according to article 8.2.7	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.7.3 [6.7.3]	Retractors	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.2.7.4 [6.7.4]	Straps – see annex B	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.7.5 [6.7.5]	ISOFIX attachment specifications	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.

2.2.7.5.1 [6.7.5.1]	ISOFIX attachment and latching indicators is capable of withstanding 2000 repeated operations before dynamic test	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.7.5.2 [6.7.5.2]	ISOFIX attachments with locking mechanism: Release the seat require 2 consecutive actions	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
	Release opening force ISOFIX attachment > 50 N	53 N <input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.2.8 [6.8]	Classification. Any size range be covered should be fulfilled the requirements.	Rear facing: 40-105 cm Forward facing: 76- 105 cm <input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.3 [8]	Test report of approval	
2.3.1 [8.1]	Documentation of test result and measurements	See annex A
2.3.2 [8.2]	Placement of CRS anchorage at the test trolley	See annex A
2.3.3 [8.3]	Fixing of the vehicle structure on the test-trolley, CRS positioning and placement in the vehicle structure	See annex A
2.3.4 [8.4]	Check of markings and instructions on installation and use	See no. 2 and no. 6

2.4 **Qualifying the Production of ECRS according to ECE- R129, article 9**
[9]

2.4.1 [9.1]	Testing shall be carried out to qualify the production of ECRS	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.4.2 [9.2]	Qualifying the production of child restraint system	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.4.2.1 [9.2.1]	Dynamic tests for Frontal and Rear Impact– measured values	See annex C
2.4.2.2 [9.2.2]	Dynamic tests for Lateral Impact	n.a.
2.4.2.3 [9.2.3]	Control of Markings	See no. 2.1

2.5 **Check of the information for Users**
[14]

2.5.1 [14.1]	Instructions in language of the country	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.2 [14.2]	Instructions for installation	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.2.1 [14.2.1]	Category “i-Size“: label ...	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.2.2 [14.2.2]	Category “i-Size booster“: label ...	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.

2.5.2.3 [14.2.3]	Category "Universal Belted seat" label...	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.5.2.4 [14.2.4]	Category "specific vehicle ISOFIX": label ...	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.5.2.5 [14.2.5]	Packing box address to which the customer can write to obtain further information	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.2.6 [14.2.6]	The method of installation illustrated by photographs and/or clear drawings	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.2.7 [14.2.7]	Advice that that the rigid items and plastic parts can not be trapped	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.2.8 [14.2.8]	Advice for carry-cots how to use to longitudinal axis	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.2.9 [14.2.9]	For rearward facing: advise how to use with an airbag	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.2.10 [14.2.10]	Special needs for CRS: label	<input type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input checked="" type="checkbox"/> n.a.
2.5.3 [14.3]	Instructions for user	
2.5.3.1 [14.3.1]	Size range	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.

2.5.3.2 [14.3.2]	The method of use shall be shown by photographs and/or clear drawings	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.3 [14.3.3]	Forward facing ECRS: advice how to use until 15 months on the packing box:	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.4 [14.3.4]	The operation of the buckle and adjusting devices shall be explained clearly	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.5 [14.3.5]	Advice that straps should be tight and not be twisted	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.6 [14.3.6]	Advice to attach any lap strap as low as possible	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.7 [14.3.7]	Advice it shall be recommended that the device should be changed when it has been subject to violent stresses in an accident	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.8 [14.3.8]	Instructions for cleaning	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.9 [14.3.9]	Warning concerning the danger of making any alternations to the device or of not following closely the installation instructions provided by the ECRS manufacturer	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.10 [14.3.10]	If not provided with a textile cover, advice to keep the CRS away from sunlight	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.

2.5.3.11 [14.3.11]	Advice that children are not left in the ECRS unattended	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.12 [14.3.12]	Recommandation that any luggage or other objects should be secured properly	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.13 [14.3.13]	Recommendation not to use CRS without cover	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
	advice that the seat cover should not be replaced with any other than the one recommended	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.14 [14.3.14]	Possibility of storage of the manual instructions	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.
2.5.3.15 [14.3.15]	Advice for i-Size ECRS of referring to vehicle manufacturer's handbook	<input checked="" type="checkbox"/> fulfilled <input type="checkbox"/> Not fulfilled <input type="checkbox"/> n.a.

3 Other information

3.1	Date of test:	2017 Sept. – 2019 July.
3.2	Place of test:	Jiangsu EQO Testing Services Co., Ltd. No.23, Luxi Road, Lujia, Kunshan, Jiangsu, P.R. China

4	Remarks:	
4.1	Brief description of the component Marking of test objects Number Fabric and paint Legends	ECRS for child size stature 40-105cm, weight no more than 18kg; secured by ISOFIX and support leg. Rearward facing for child 40-105cm, most reclined positions; forward facing for 76-105cm, 2 positions. The ECRS is rotatable and ISOFIX base and chair is combined. n.a. 26 complete ECRS samples components from plastics (PP, ABS, PA6, etc), See Information document: KX-88 Technical Document Covering: cover be composed by fabric, sponge, lining and latex mattress. Color is various and designs in accordance to the requirements of ECE R129 n.a.
4.2	Choice of worst case	Q3 dummy, rear facing, reclined position, secured by ISOFIX and support leg (longest position).

Dynamic test according to ECE-R 44, article 7.1.4

- | | |
|---|---|
| <input type="checkbox"/> Forward facing
<input checked="" type="checkbox"/> Rearward facing
<input type="checkbox"/> Lateral facing | <input checked="" type="checkbox"/> Frontal collision according to 7.1.3
<input type="checkbox"/> Rear collision according to 7.1.3
<input type="checkbox"/> Lateral collision according to 7.1.3 |
|---|---|

	Unit	exemplar No.				specified value
test-trolley system: deceleration (D) / acceleration (A)		☒ / ☐	☒ / ☐	☒ / ☐	☒ / ☐	
test number		201906 13008S	201906 13007S	201802 12006S	201907 22003S	
weight of the manikin	kg	3.4	9.6	11.1	14.6	
CRS position		reclined	reclined	reclined	reclined	
used anchorages ¹		H ₁ ,H ₂	H ₁ ,H ₂	H ₁ ,H ₂	H ₁ ,H ₂	
impact speed of the test-trolley (D)	km/h	49.27	49.32	49.19	49.01	50 ⁰⁻²
speed variation (A)	km/h	--	--	--	--	52 ⁰⁻²
test trolley braking distance (D)	mm	671	672	674	668	650±50
maximum sled deceleration ²	g	23.66	23.72	23.17	23.44	³
Head performance criterion(15)		133.57	445.09	451.83	435.19	600/800 ⁴
resulting Head speeding up	g	38.55	69.1	64.27	62.37	75/80
resulting thorax speeding up	g	34.65	43.08	39.67	35.82	55 ⁵
Upper neck tension force(Fz)	N	149.46	1277.07	1003.59	1206.19	⁶
Upper neck flexion moment(My)	Nm	7.73	16.87	16.95	21.88	⁷
Chest deflection (TBC)	mm	--	2.94	0.93	9.09	⁸

¹ labeling according to ECE R129, annex 6, appendix 2

² progress and filtering according to ECE R129, appendix 7

³ specified value for calibrating test: 20 g until 28 g

⁴ specified criteria for frontal and rear impact according to ECE R129, article 6.6.4.3, for lateral impact according to ECE R129, article 6.6.4.5.2.

⁵ in certain periods exceeding of the specified values allowed, if sum does not exceed 3 ms; values will not be taken into consideration on declaration

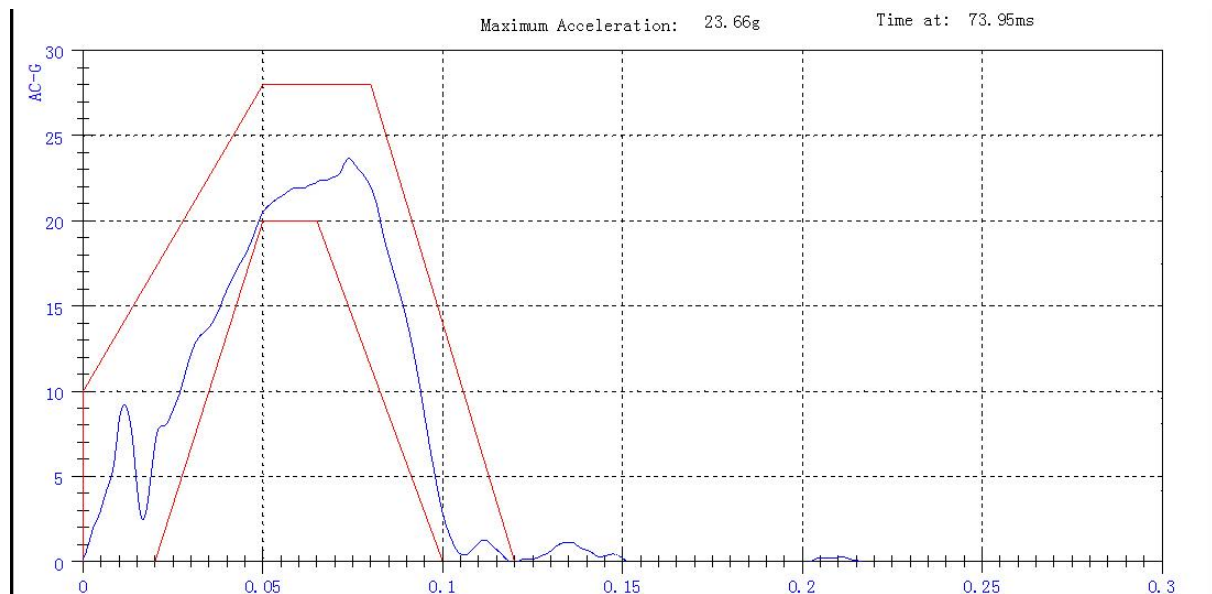
⁶ For monitoring purpose only, will be reviewed within 3 years till 2020.

⁷ For monitoring purpose only, will be reviewed within 3 years till 2020.

⁸ For monitoring purpose only, will be reviewed within 3 years till 2020.

Abdominal pressure (P)	Bar	--/--	--/--	0.08/0.1	0.11/0.09	1.2
Lap belt force	N	--	--	--	--	--
time until max forward head excursion	ms	72	81	88	81	
dummy head excursion value	mm	485	624	676	688	700
section AB/FG		no	no	no	no	no
section AD/FD		no	no	no	no	no
section DE		no	no	no	no	no
contact of the CRS with a 100 mm pipe		no	no	no	no.	⁹
contact with Head containment plane		--	--	--	--	--
danger of abdomen injury		no	no	no	no	no
strength to open the buckle under load ¹⁰	N	56	52	71	51	≤ 80 N
notes	All dynamic tests performed with steel tube installation, but not contacted with; no visible damages after the dynamic test					

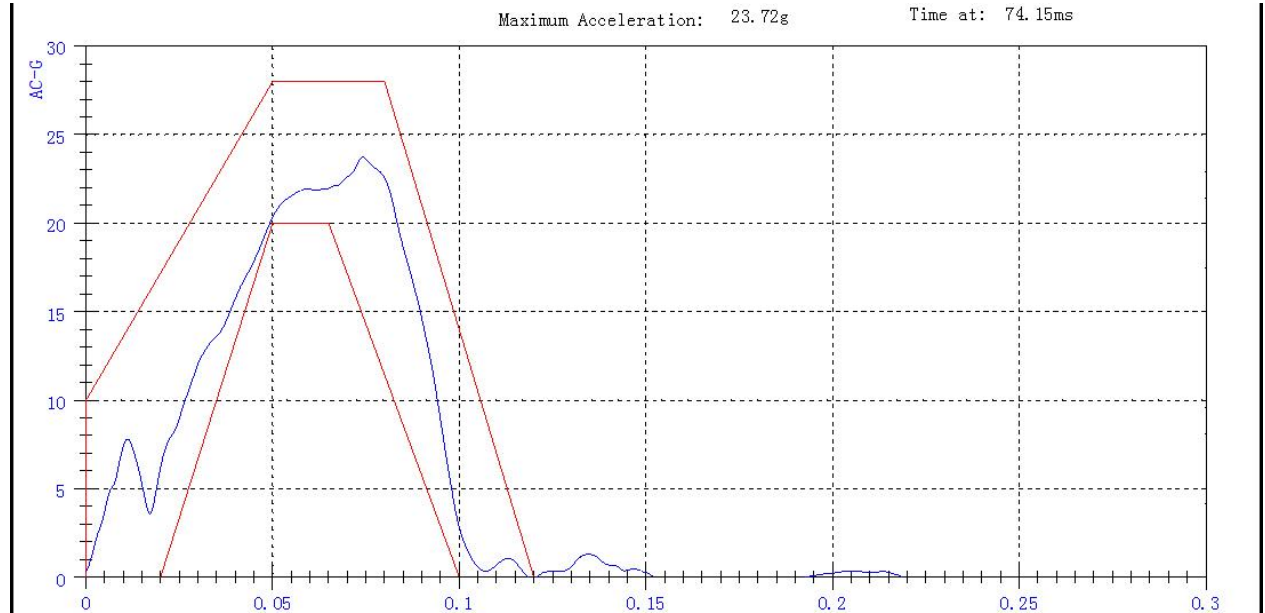
Acceleration curve for test: 20190613008S



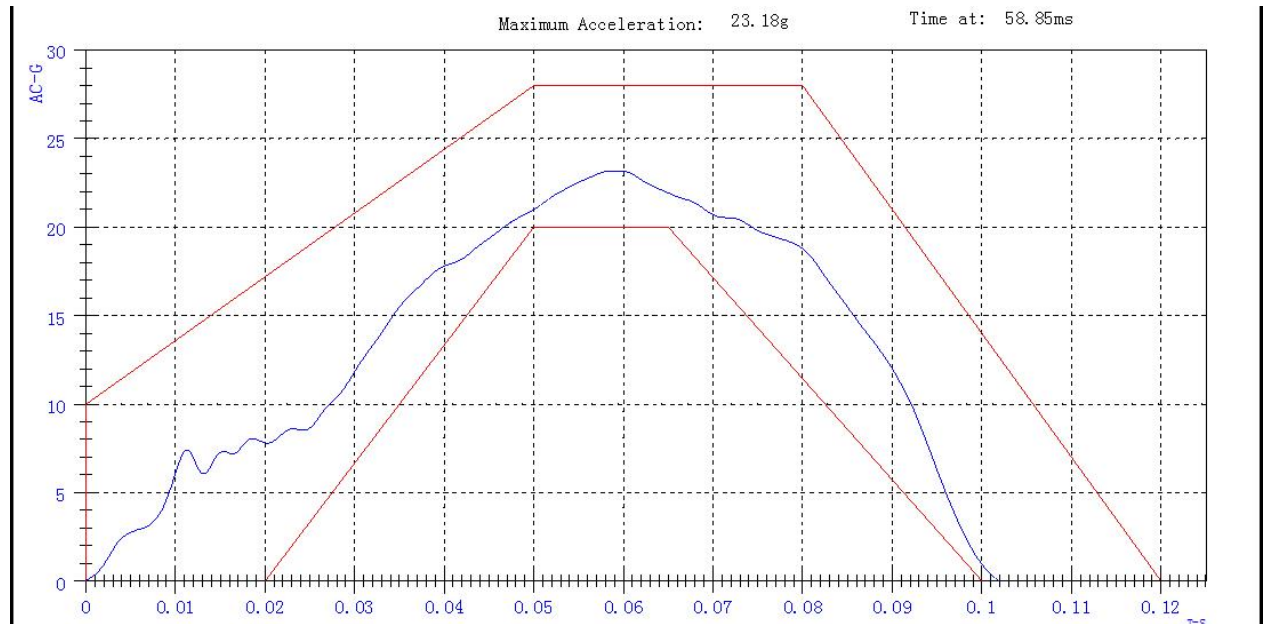
⁹ if all criterias of security have been fulfilled and on further tests all criterias of security excluding forward displacement, touching is allowed

¹⁰ Alternative measuring value

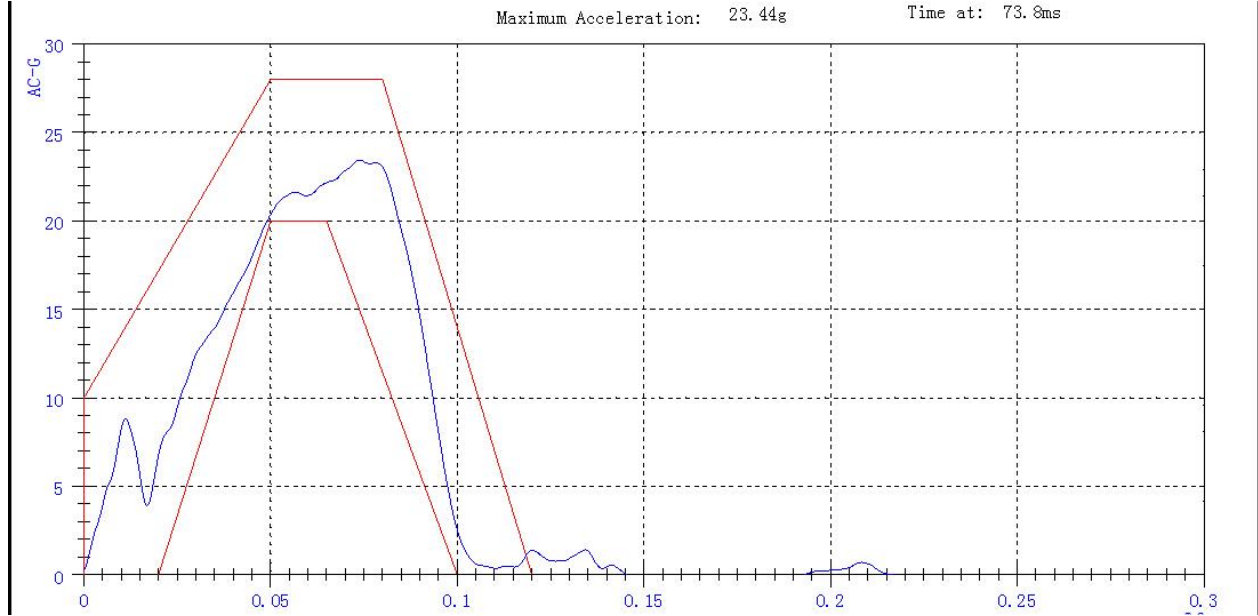
Acceleration curve for test: 20190613007S



Acceleration curve for test: 20180212006S



Acceleration curve for test: 20190722003S



Dynamic test according to ECE-R 44, article 7.1.4

- | | |
|---|---|
| <input type="checkbox"/> Forward facing
<input checked="" type="checkbox"/> Rearward facing
<input type="checkbox"/> Lateral facing | <input checked="" type="checkbox"/> Frontal collision according to 7.1.3
<input type="checkbox"/> Rear collision according to 7.1.3
<input type="checkbox"/> Lateral collision according to 7.1.3 |
|---|---|

	Unit	exemplar No.	specified value
test-trolley system: deceleration (D) / acceleration (A)		☒ / ☐	
test number		201905 31003S	
weight of the manikin	kg	14.6	
CRS position		reclined	
used anchorages ¹¹		H ₁ ,H ₂	
impact speed of the test-trolley (D)	km/h	49.63	50 ⁰⁻²
speed variation (A)	km/h	--	52 ⁰⁻²
test trolley braking distance (D)	mm	671	650±50
maximum sled deceleration ¹²	g	24.22	13
Head performance criterion(15)		349.57	600 ¹⁴
resulting Head speeding up	g	57.77	75
resulting thorax speeding up	g	45.07	55 ¹⁵
Upper neck tension force(Fz)	N	1737.16	16
Upper neck flexion moment(My)	Nm	16.86	17
Chest deflection (TBC)	mm	12.51	18

¹¹ labeling according to ECE R129, annex 6, appendix 2

¹² progress and filtering according to ECE R129, appendix 7

¹³ specified value for calibrating test: 20 g until 28 g

¹⁴ specified criteria for frontal and rear impact according to ECE R129, article 6.6.4.3, for lateral impact according to ECE R129, article 6.6.4.5.2.

¹⁵ in certain periods exceeding of the specified values allowed, if sum does not exceed 3 ms; values will not be taken into consideration on declaration

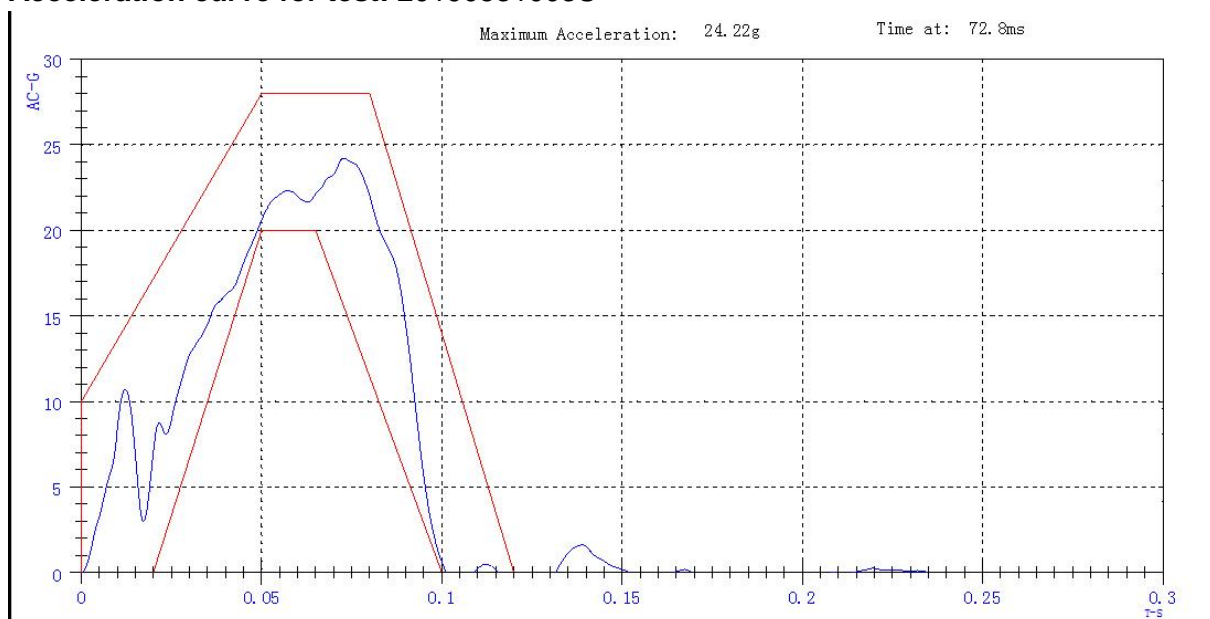
¹⁶ For monitoring purpose only, will be reviewed within 3 years till 2020.

¹⁷ For monitoring purpose only, will be reviewed within 3 years till 2020.

¹⁸ For monitoring purpose only, will be reviewed within 3 years till 2020.

Abdominal pressure (P)	Bar	0.08/0.06				1.2
Lap belt force	N	--				--
time until max forward head excursion	ms	94				--
dummy head excursion value	mm	--				--
section AB/FG		no				no
section AD/FD		no				no
section DE		no				no
contact of the CRS with a 100 mm pipe		--				--
contact with Head containment plane		--				--
danger of abdomen injury		no				no
strength to open the buckle under load ¹⁹	N	52				≤ 80 N
notes	Dynamic test 20190531003S ECRS tested without support leg in use and deployed in shortest length; no visible damages after the dynamic test					

Acceleration curve for test: 20190531003S



¹⁹ Alternative measuring value

Dynamic test according to ECE-R 44, article 7.1.4

<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20px; border: 1px solid black; text-align: center;"> </td><td>Forward facing</td></tr> <tr><td style="width: 20px; border: 1px solid black; text-align: center;">X</td><td>Rearward facing</td></tr> <tr><td style="width: 20px; border: 1px solid black; text-align: center;"> </td><td>Lateral facing</td></tr> </table>		Forward facing	X	Rearward facing		Lateral facing	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20px; border: 1px solid black; text-align: center;"> </td><td>Frontal collision according to 7.1.3</td></tr> <tr><td style="width: 20px; border: 1px solid black; text-align: center;">X</td><td>Rear collision according to 7.1.3</td></tr> <tr><td style="width: 20px; border: 1px solid black; text-align: center;"> </td><td>Lateral collision according to 7.1.3</td></tr> </table>		Frontal collision according to 7.1.3	X	Rear collision according to 7.1.3		Lateral collision according to 7.1.3
	Forward facing												
X	Rearward facing												
	Lateral facing												
	Frontal collision according to 7.1.3												
X	Rear collision according to 7.1.3												
	Lateral collision according to 7.1.3												

	Unit	exemplar No.				specified value
test-trolley system: deceleration (D) / acceleration (A)		☒ / ☐	☒ / ☐	☒ / ☐	☒ / ☐	
test number		201907 11006S	201906 13010S	201711 30004S	201907 11004S	
weight of the manikin	kg	3.4	9.6	11.1	14.6	
CRS position		reclined	reclined	reclined	reclined	
used anchorages ²⁰		H ₁ ,H ₂	H ₁ ,H ₂	H ₁ ,H ₂	H ₁ ,H ₂	
impact speed of the test-trolley (D)	km/h	30.93	30.33	30.21	30.86	32 ⁰⁻²
speed variation (A)	km/h	--	--	--	--	34 ⁰⁻²
test trolley braking distance (D)	mm	271	272	272	272	275±25
maximum sled deceleration ²¹	g	18.02	17.72	19.70	17.99	²²
Head performance criterion(15)		169.22	119.73	93.79	90.17	600 ²³
resulting Head speeding up	g	56.21	38.62	35.54	34.4	75
resulting thorax speeding up	g	35.06	28.61	39.15	25.77	55 ²⁴
Upper neck tension force(Fz)	N	344.48	600.29	968.6	1180.56	²⁵
Upper neck flexion moment(My)	Nm	9.53	12.61	3.99	11.47	²⁶
Chest deflection (TBC)	mm	--	3.37	0.43	13.85	²⁷

²⁰ labeling according to ECE R129, annex 6, appendix 2

²¹ progress and filtering according to ECE R129, appendix 7

²² specified value for calibrating test: 20 g until 28 g

²³ specified criteria for frontal and rear impact according to ECE R129, article 6.6.4.3, for lateral impact according to ECE R129, article 6.6.4.5.2.

²⁴ in certain periods exceeding of the specified values allowed, if sum does not exceed 3 ms; values will not be taken into consideration on declaration

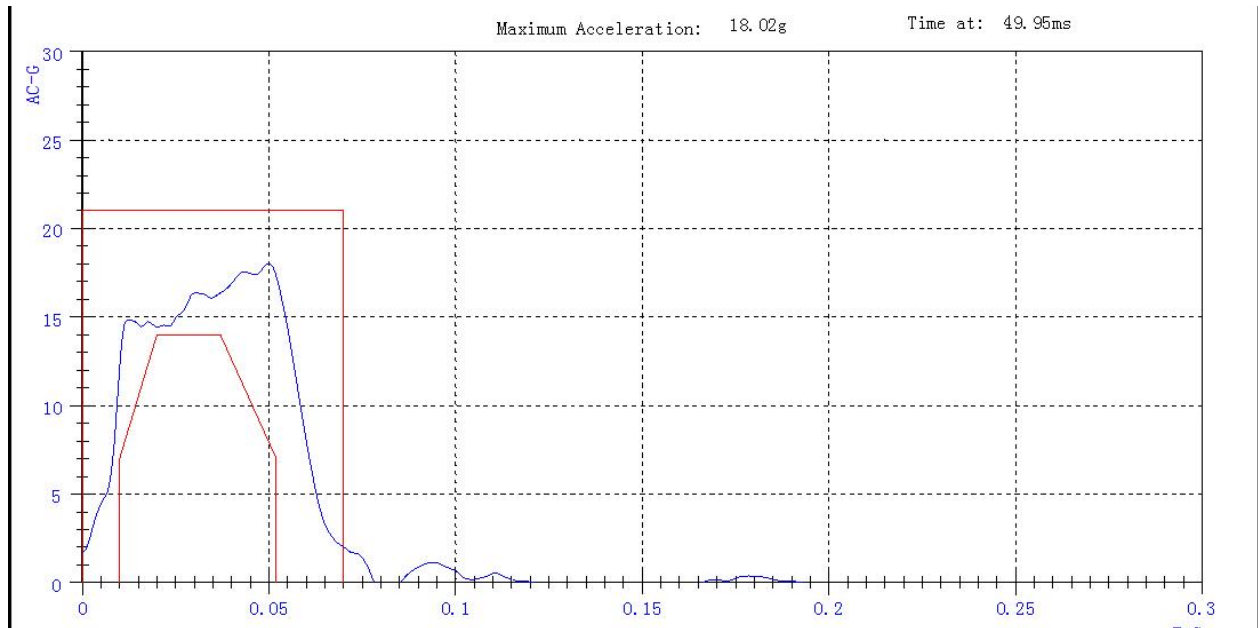
²⁵ For monitoring purpose only, will be reviewed within 3 years till 2020.

²⁶ For monitoring purpose only, will be reviewed within 3 years till 2020.

²⁷ For monitoring purpose only, will be reviewed within 3 years till 2020.

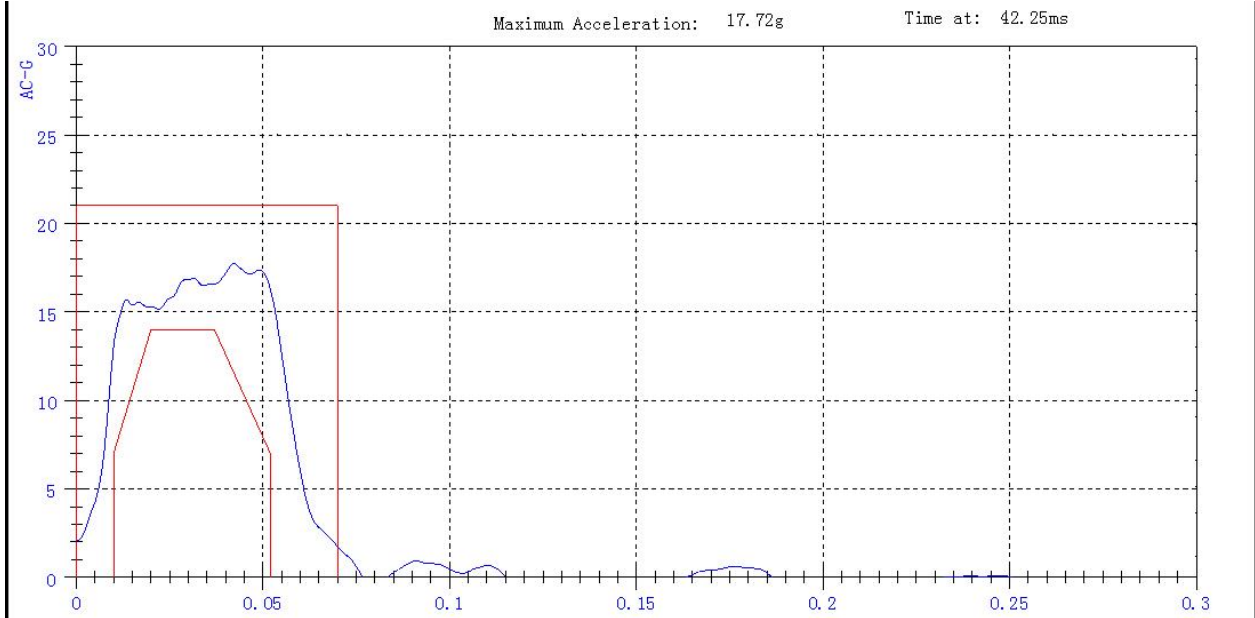
Abdominal pressure (P)	Bar	--/--	--/--	0.11/0.11	0.2/0.18	1.2
Lap belt force	N	--	--	--	--	--
time until max forward head excursion	ms	--	--	--	--	
dummy head excursion value	mm	--	--	--	--	--
section AB/FG		no	no	no	no	no
section AD/FD		no	no	no	no	no
section DE		no	no	no	no	no
contact of the CRS with a 100 mm pipe		--	--	--	--	--
contact with Head containment plane		--	--	--	--	--
danger of abdomen injury		no	no	no	no	no
strength to open the buckle under load ²⁸	N	58	51	66	50	≤ 80 N
notes	Dynamic tests all performed with support leg in shortest length position; no visible damages after the dynamic test					

Acceleration curve for test: 20190711006S

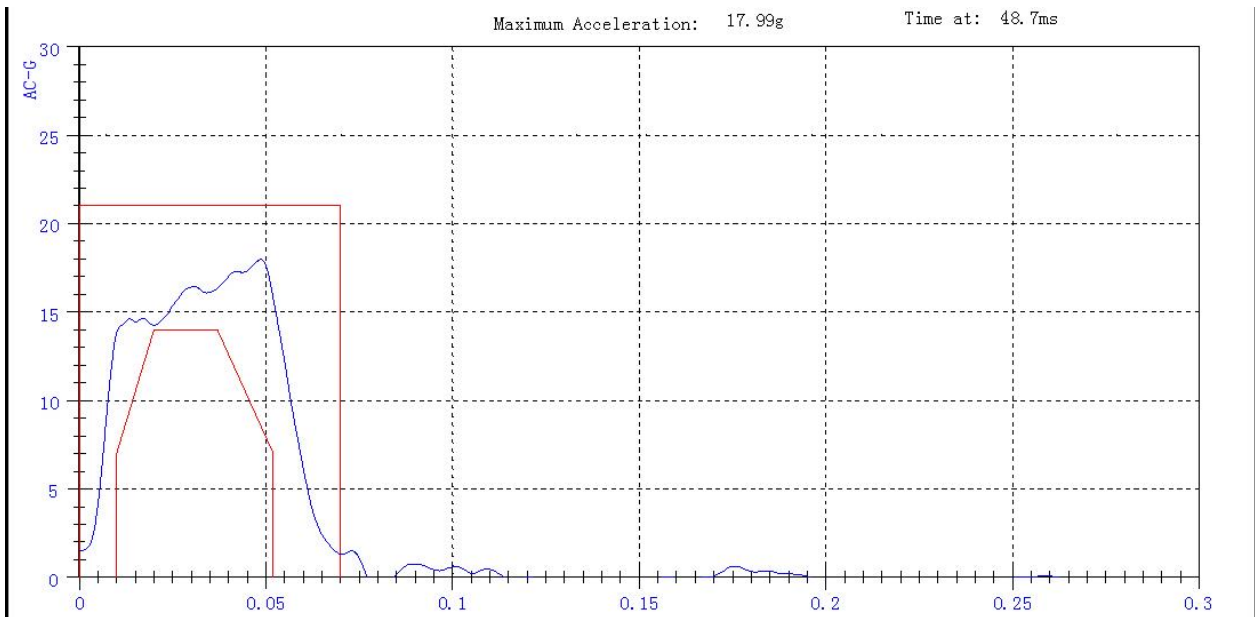


²⁸ Alternative measuring value

Acceleration curve for test: 20190613010S



Acceleration curve for test: 20190711004S



Dynamic test according to ECE-R 44, article 7.1.4

<input type="checkbox"/>	Forward facing	<input type="checkbox"/>	Frontal collision according to 7.1.3
<input checked="" type="checkbox"/>	Rearward facing	<input type="checkbox"/>	Rear collision according to 7.1.3
<input type="checkbox"/>	Lateral facing	<input checked="" type="checkbox"/>	Lateral collision according to 7.1.3

	Unit	exemplar No.				specified value
test-trolley system: deceleration (D) / acceleration (A)		☒ / ☐	☒ / ☐	☒ / ☐	☒ / ☐	
test number		201907 11001S	201907 11002S	201711 17002S	201907 11003S	
weight of the manikin	kg	3.4	9.6	11.1	14.6	
CRS position		reclined	reclined	reclined	reclined	
used anchorages ²⁹		H ₁ ,H ₂	H ₁ ,H ₂	H ₁ ,H ₂	H ₁ ,H ₂	
impact speed of the test-trolley (D)	km/h	24.41	24.73	24.16	24.88	50 ⁰⁻²
speed variation (A)	km/h	--	--	--	--	52 ⁰⁻²
test trolley braking distance (D)	mm	241	243	247	243	250±50
maximum sled deceleration ³⁰	g	12.23	12.48	13.05	12.52	³¹
Head performance criterion(15)		367.72	260.36	329.76	448.49	600 ³²
resulting Head speeding up	g	65.54	60.72	66.61	77.79	75/80
resulting thorax speeding up	g	--	--	--	--	--
Upper neck tension force(Fz)	N	109.64	392.76	746.27	1147.07	³³
Upper neck flexion moment(Mx)	Nm	7.44	8.41	9.8	13.62	³⁴
Chest deflection (TBC)	mm	--	--	--	--	--

²⁹ labeling according to ECE R129, annex 6, appendix 2

³⁰ progress and filtering according to ECE R129, appendix 7

³¹ specified value for calibrating test: 20 g until 28 g

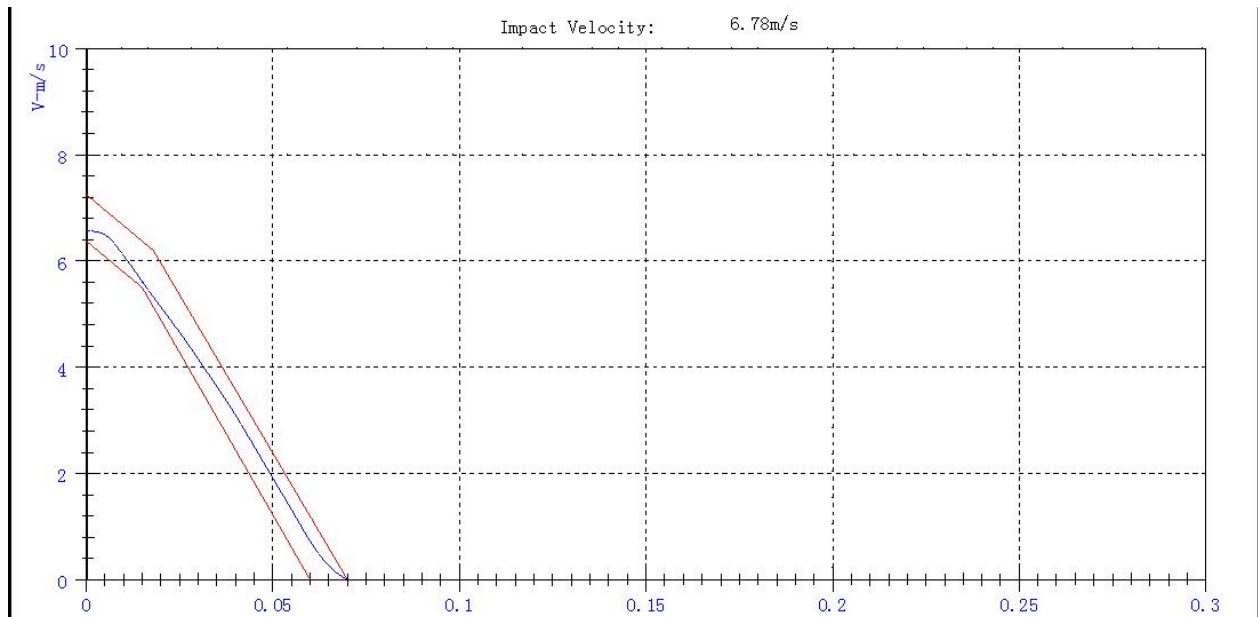
³² specified criteria for frontal and rear impact according to ECE R129, article 6.6.4.3, for lateral impact according to ECE R129, article 6.6.4.5.2.

³³ For monitoring purpose only, will be reviewed within 3 years till 2020.

³⁴ For monitoring purpose only, will be reviewed within 3 years till 2020.

Abdominal pressure (P)	Bar	--/--	--/--	--/--	--/--	--
Lap belt force	N	--	--	--	--	--
time until max forward head excursion	ms	--	--	--	--	--
dummy head excursion value	mm	--	--	--	--	--
section AB/FG		--	--	--	--	--
section AD/FD		--	--	--	--	--
section DE		--	--	--	--	--
contact of the CRS with a 100 mm pipe		--	--	--	--	--
contact with Head containment plane		no	no	no	no	no ³⁵
danger of abdomen injury		no	no	no	no	no
strength to open the buckle under load ³⁶	N	55	57	71	60	≤ 80 N
notes	Dynamic tests all performed with support leg in longest length position; no visible damages after the dynamic test					

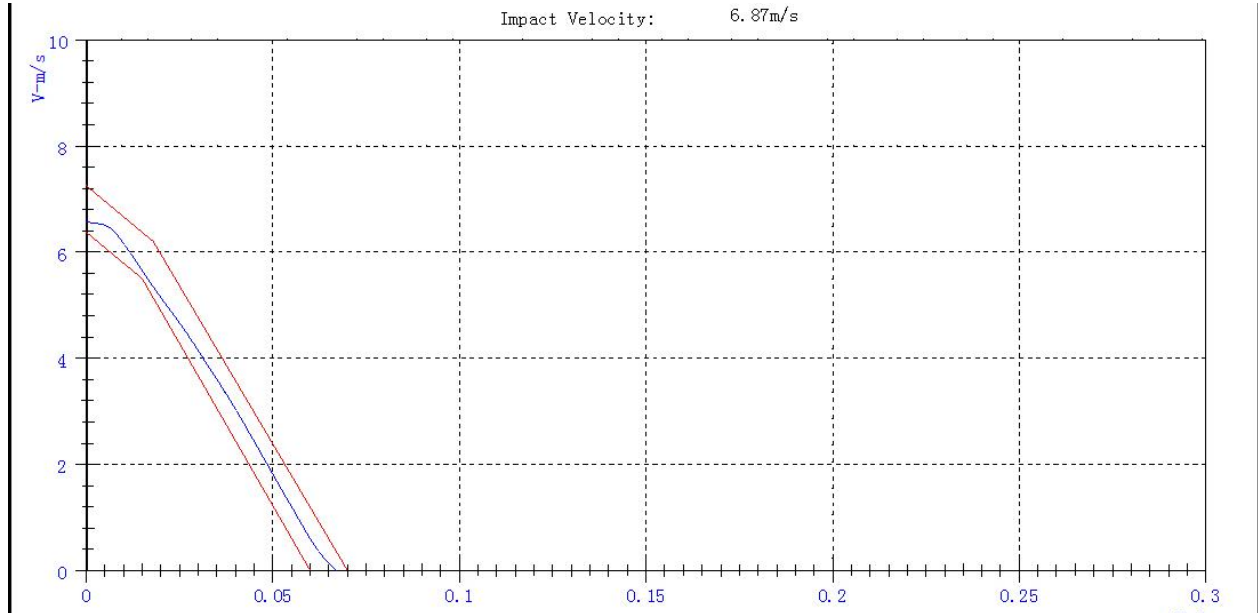
Acceleration curve for test: 20190711001S



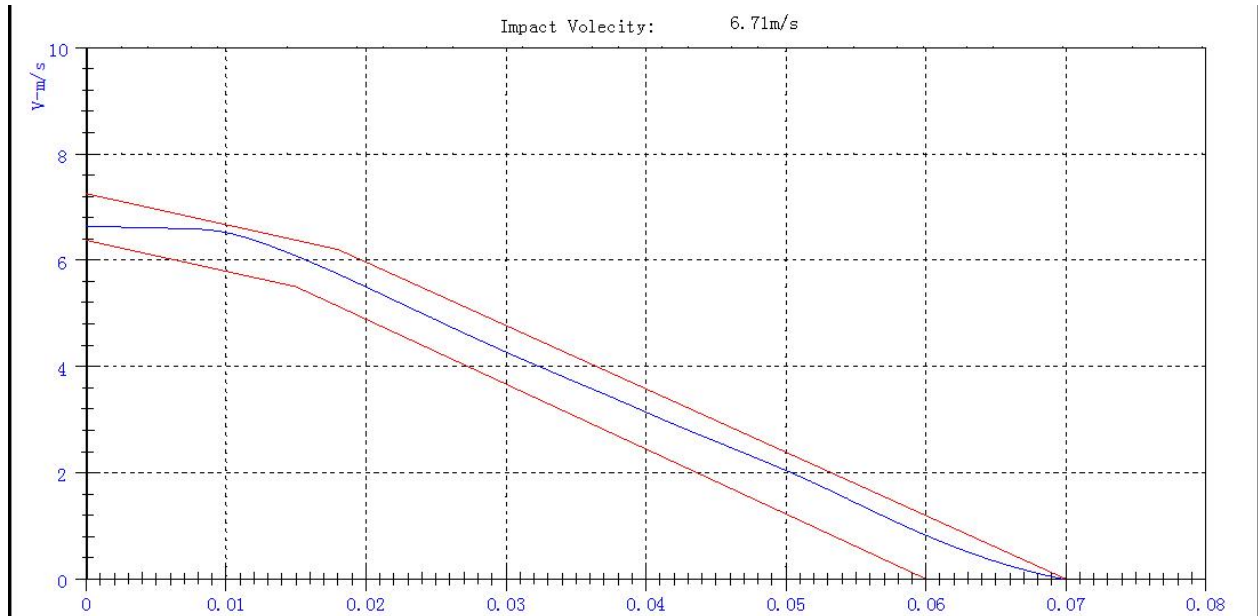
³⁵ specified criteria for frontal and rear impact according to ECE R129, article 6.6.4.3, for lateral impact according to ECE R129, article 6.6.4.5.2.

³⁶ Alternative measuring value

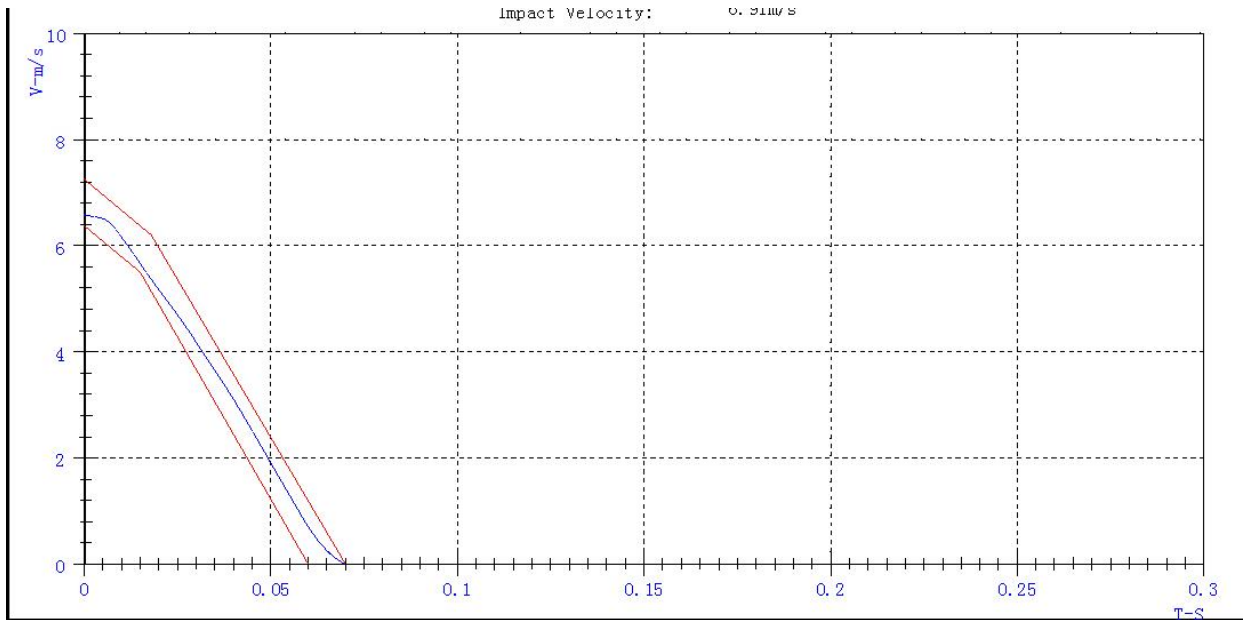
Acceleration curve for test:20190711002S



Acceleration curve for test: 20171117002S



Acceleration curve for test:20190711003S



Dynamic test according to ECE-R 44, article 7.1.4

<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center; border: 1px solid black;"><input checked="" type="checkbox"/></td> <td>Forward facing</td> </tr> <tr> <td style="text-align: center; border: 1px solid black;"><input type="checkbox"/></td> <td>Rearward facing</td> </tr> <tr> <td style="text-align: center; border: 1px solid black;"><input type="checkbox"/></td> <td>Lateral facing</td> </tr> </table>	<input checked="" type="checkbox"/>	Forward facing	<input type="checkbox"/>	Rearward facing	<input type="checkbox"/>	Lateral facing	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center; border: 1px solid black;"><input checked="" type="checkbox"/></td> <td>Frontal collision according to 7.1.3</td> </tr> <tr> <td style="text-align: center; border: 1px solid black;"><input type="checkbox"/></td> <td>Rear collision according to 7.1.3</td> </tr> <tr> <td style="text-align: center; border: 1px solid black;"><input type="checkbox"/></td> <td>Lateral collision according to 7.1.3</td> </tr> </table>	<input checked="" type="checkbox"/>	Frontal collision according to 7.1.3	<input type="checkbox"/>	Rear collision according to 7.1.3	<input type="checkbox"/>	Lateral collision according to 7.1.3
<input checked="" type="checkbox"/>	Forward facing												
<input type="checkbox"/>	Rearward facing												
<input type="checkbox"/>	Lateral facing												
<input checked="" type="checkbox"/>	Frontal collision according to 7.1.3												
<input type="checkbox"/>	Rear collision according to 7.1.3												
<input type="checkbox"/>	Lateral collision according to 7.1.3												

	Unit	exemplar No.				specified value
test-trolley system: deceleration (D) / acceleration (A)		☒ / ☐	☒ / ☐	☒ / ☐	☒ / ☐	
test number		201906 13005S	201711 06004S	201906 13004S	201906 13003S	
weight of the manikin	kg	11.1	11.1	14.6	14.6	
CRS position		reclined	upright	reclined	upright	
used anchorages ³⁷		H ₁ ,H ₂	H ₁ ,H ₂	H ₁ ,H ₂	H ₁ ,H ₂	
impact speed of the test-trolley (D)	km/h	49.32	49.14	49.36	49.45	50 ⁰⁻²
speed variation (A)	km/h	--	--	--	--	52 ⁰⁻²
test trolley braking distance (D)	mm	673	670	670	672	650±50
maximum sled deceleration ³⁸	g	23.05	24.05	23.24	23.4	³⁹
Head performance criterion(15)		439.38	412.88	659.05	584.05	600/800 ⁴⁰
resulting Head speeding up	g	63.42	63.21	74.55	70.66	75/80
resulting thorax speeding up	g	37.29	36.04	39.4	39.82	55
Upper neck tension force(Fz)	N	1520.92	1421.8	1979.93	1943.03	⁴¹
Upper neck flexion moment(My)	Nm	23.11	20.13	21.56	22.96	⁴²
Chest deflection (TBC)	mm	11.97	0.07	34.05	33.97	⁴³

³⁷ labeling according to ECE R129, annex 6, appendix 2

³⁸ progress and filtering according to ECE R129, appendix 7

³⁹ specified value for calibrating test: 20 g until 28 g

⁴⁰ specified criteria for frontal and rear impact according to ECE R129, article 6.6.4.3, for lateral impact according to ECE R129, article 6.6.4.5.2.

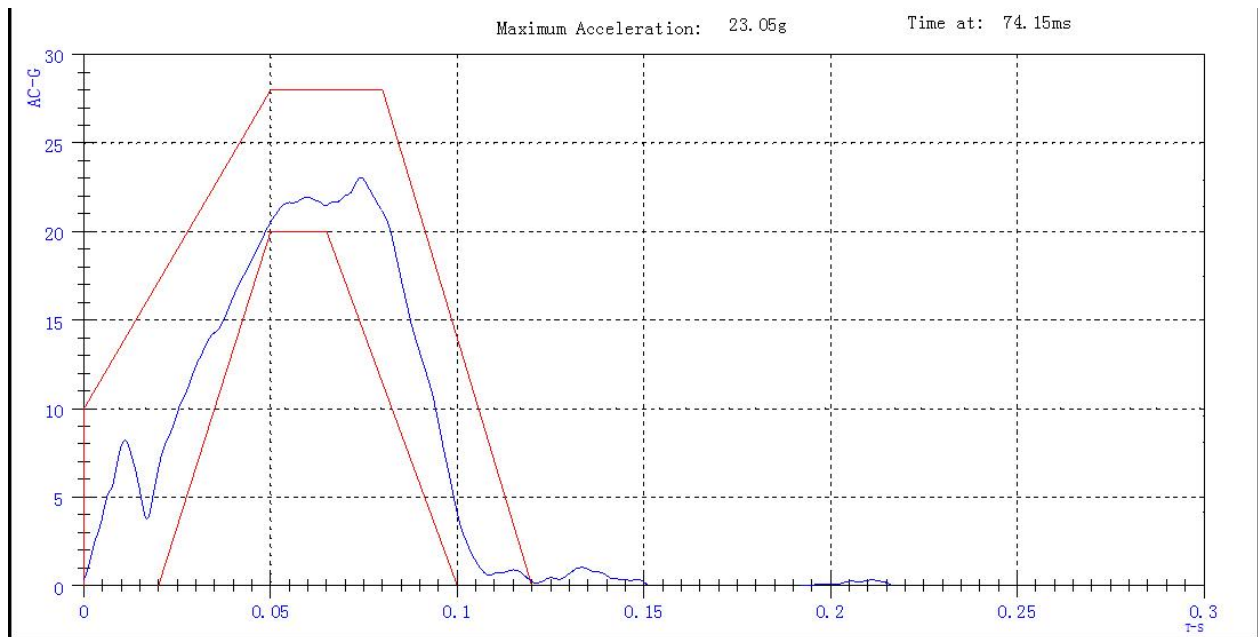
⁴¹ For monitoring purpose only, will be reviewed within 3 years till 2020.

⁴² For monitoring purpose only, will be reviewed within 3 years till 2020.

⁴³ For monitoring purpose only, will be reviewed within 3 years till 2020.

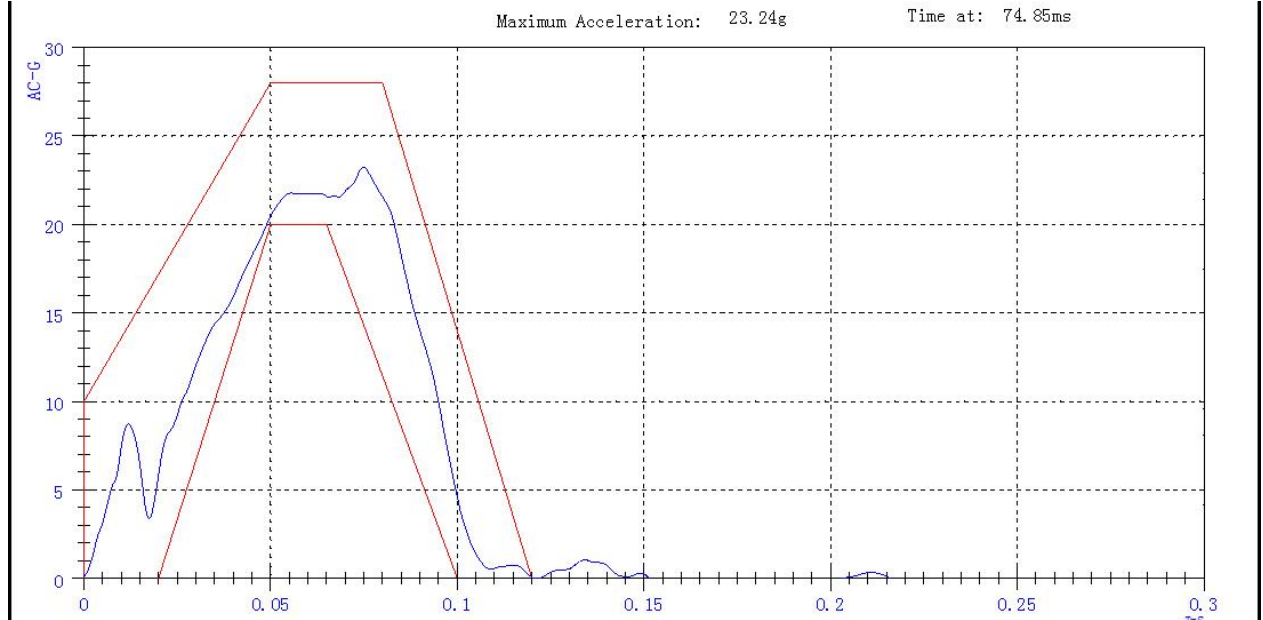
Abdominal pressure (P)	Bar	0.78/0.78	0.35/0.29	0.49/0.61	0.45/0.45	1.2
Lap belt force	N	--	--	--	--	--
time until max forward head excursion	ms	94	94	98	97	--
dummy head excursion value	mm	388	417	461	488	500
section AB/FG		no	no	no	no	--
section AD/FD		no	no	no	no	--
section DE		no	no	no	no	--
contact of the CRS with a 100 mm pipe		--	--	--	--	--
contact with Head containment plane		--	--	--	--	--
danger of abdomen injury		no	no	no	no	no
strength to open the buckle under load ⁴⁴	N	54	68	53	51	≤ 80 N
notes	Dynamic tests all performed with support leg in longest length position; no visible damages after the dynamic test					

Acceleration curve for test: 20190613005S

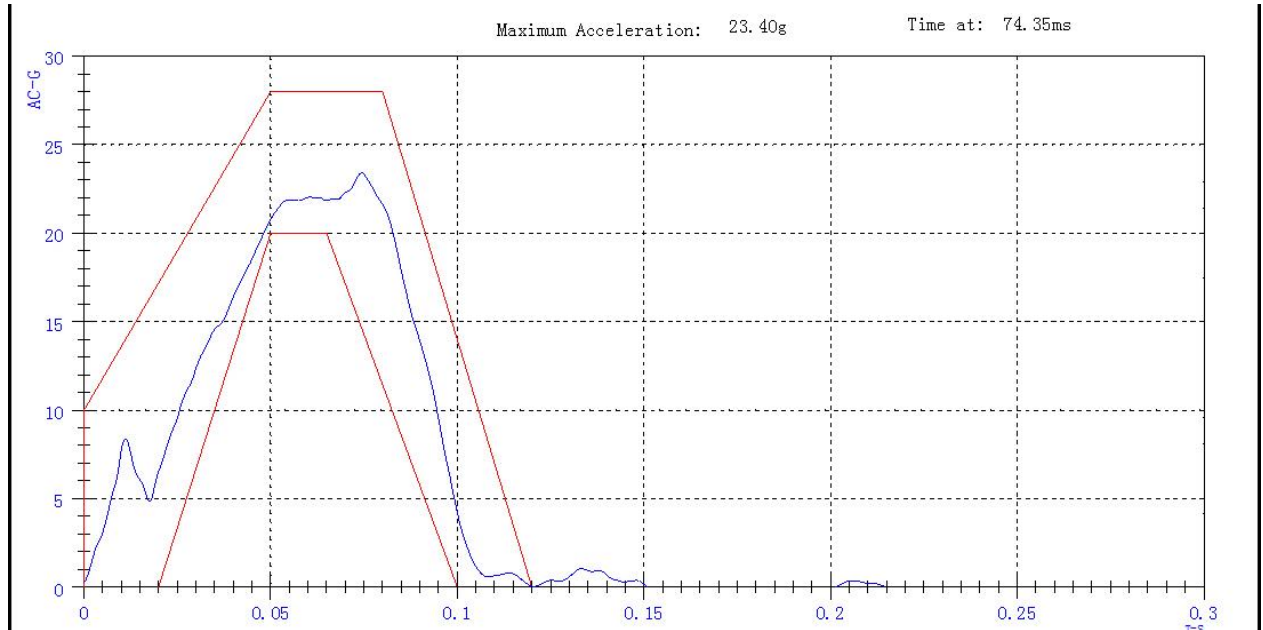


⁴⁴ Alternative measuring value

Acceleration curve for test: 20190613004S



Acceleration curve for test: 20190613003S



Dynamic test according to ECE-R 44, article 7.1.4

- | | |
|---|---|
| <input checked="" type="checkbox"/> Forward facing
<input type="checkbox"/> Rearward facing
<input type="checkbox"/> Lateral facing | <input checked="" type="checkbox"/> Frontal collision according to 7.1.3
<input type="checkbox"/> Rear collision according to 7.1.3
<input type="checkbox"/> Lateral collision according to 7.1.3 |
|---|---|

	Unit	exemplar No.	specified value
test-trolley system: deceleration (D) / acceleration (A)		<input checked="" type="checkbox"/> / <input type="checkbox"/>	
test number		201907 22001S	
weight of the manikin	kg	14.6	
CRS position		upright	
used anchorages ⁴⁵		H ₁ ,H ₂	
impact speed of the test-trolley (D)	km/h	48.3	50 ⁰⁻²
speed variation (A)	km/h	--	52 ⁰⁻²
test trolley braking distance (D)	mm	660	650±50
maximum sled deceleration ⁴⁶	g	21.35	47
Head performance criterion(15)		430.89	800 ⁴⁸
resulting Head speeding up	g	65.03	80
resulting thorax speeding up	g	35.36	55
Upper neck tension force(Fz)	N	2494.09	49
Upper neck flexion moment(My)	Nm	17.13	50
Chest deflection (TBC)	mm	32.61	51

⁴⁵ labeling according to ECE R129, annex 6, appendix 2

⁴⁶ progress and filtering according to ECE R129, appendix 7

⁴⁷ specified value for calibrating test: 20 g until 28 g

⁴⁸ specified criteria for frontal and rear impact according to ECE R129, article 6.6.4.3, for lateral impact according to ECE R129, article 6.6.4.5.2.

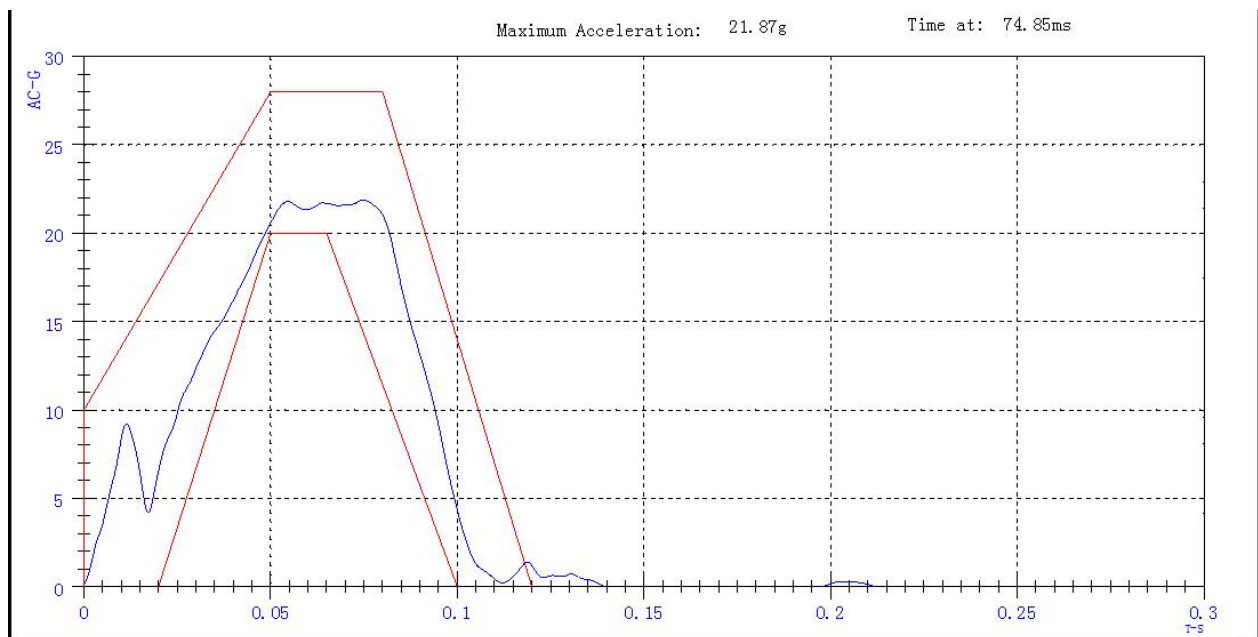
⁴⁹ For monitoring purpose only, will be reviewed within 3 years till 2020.

⁵⁰ For monitoring purpose only, will be reviewed within 3 years till 2020.

⁵¹ For monitoring purpose only, will be reviewed within 3 years till 2020.

Abdominal pressure (P)	Bar	0.44/0.6				1.2
Lap belt force	N	--				--
time until max forward head excursion	ms	103				--
dummy head excursion value	mm	522				550
section AB/FG		no				--
section AD/FD		no				--
section DE		no				--
contact of the CRS with a 100 mm pipe		--				--
contact with Head containment plane		--				--
danger of abdomen injury		no				no
strength to open the buckle under load ⁵²	N	63				≤ 80 N
notes	Dynamic test 20190722001S performed without support leg in use and deployed in shortest length; no visible damages after the dynamic test					

Acceleration curve for test: 20190722001S



⁵² Alternative measuring value

Dynamic test according to ECE-R 44, article 7.1.4

<input checked="" type="checkbox"/>	Forward facing	<input type="checkbox"/>	Frontal collision according to 7.1.3
<input type="checkbox"/>	Rearward facing	<input type="checkbox"/>	Rear collision according to 7.1.3
<input type="checkbox"/>	Lateral facing	<input checked="" type="checkbox"/>	Lateral collision according to 7.1.3

	Unit	exemplar No.			specified value
test-trolley system: deceleration (D) / acceleration (A)		<input checked="" type="checkbox"/> / <input type="checkbox"/>	<input checked="" type="checkbox"/> / <input type="checkbox"/>		
test number		201711 17004S	201711 17005S		
weight of the manikin	kg	11.1	14.6		
CRS position		upright	upright		
used anchorages ⁵³		H ₁ ,H ₂	H ₁ ,H ₂		
impact speed of the test-trolley (D)	km/h	24.19	24.26		50 ⁰ ₋₂
speed variation (A)	km/h	--	--		52 ⁰ ₋₂
test trolley braking distance (D)	mm	247	246		250±50
maximum sled deceleration ⁵⁴	g	14.45	14.34		55
Head performance criterion(15)		202.06	281.17		600 ⁵⁶
resulting Head speeding up	g	51.69	57.28		75
resulting thorax speeding up	g	--	--		--
Upper neck tension force(Fz)	N	295.74	687.01		57
Upper neck flexion moment(Mx)	Nm	6.66	12.61		58
Chest deflection (TBC)	mm	--	--		--
Abdominal pressure (P)	Bar	--/--	--/--		--
Lap belt force	N	--	--		--

⁵³ labeling according to ECE R129, annex 6, appendix 2

⁵⁴ progress and filtering according to ECE R129, appendix 7

⁵⁵ specified value for calibrating test: 20 g until 28 g

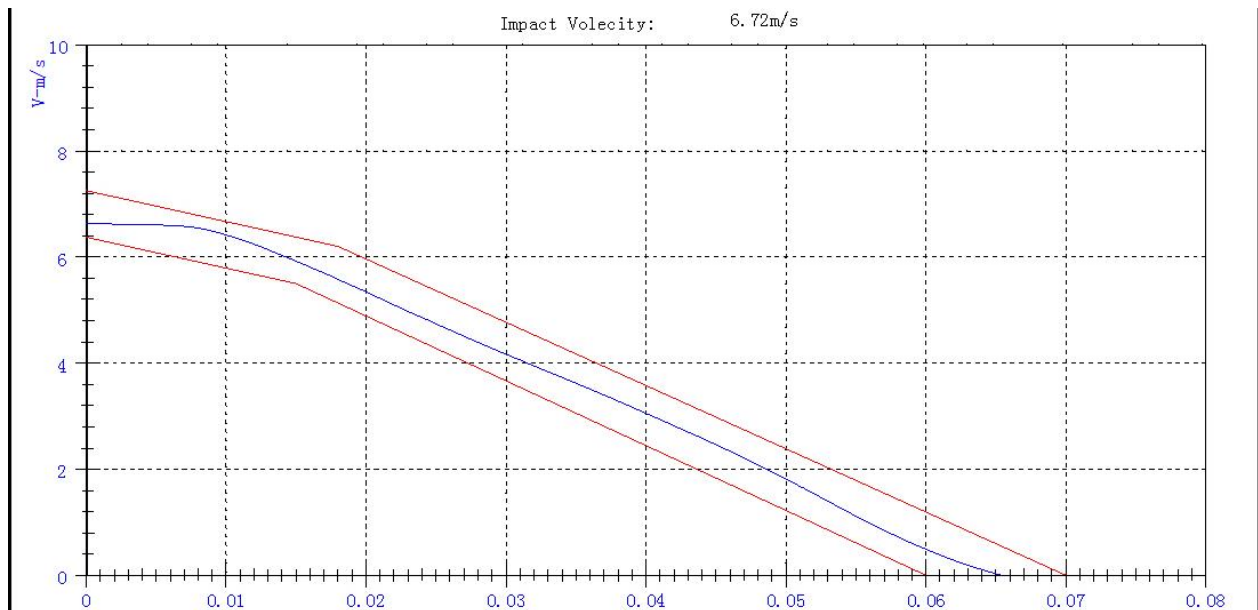
⁵⁶ specified criteria for frontal and rear impact according to ECE R129, article 6.6.4.3, for lateral impact according to ECE R129, article 6.6.4.5.2.

⁵⁷ For monitoring purpose only, will be reviewed within 3 years till 2020.

⁵⁸ For monitoring purpose only, will be reviewed within 3 years till 2020.

time until max forward head excursion	ms	53	50			--
dummy head excursion value	mm	--	--			--
section AB/FG		--	--			--
section AD/FD		--	--			--
section DE		--	--			--
contact of the CRS with a 100 mm pipe		--	--	--	--	--
contact with Head containment plane		no	no	--	--	no ⁵⁹
danger of abdomen injury		no	no			no
strength to open the buckle under load ⁶⁰	N	72	71			≤ 80 N
notes	Dynamic tests all performed with support leg in longest length position; no visible damages after the dynamic test					

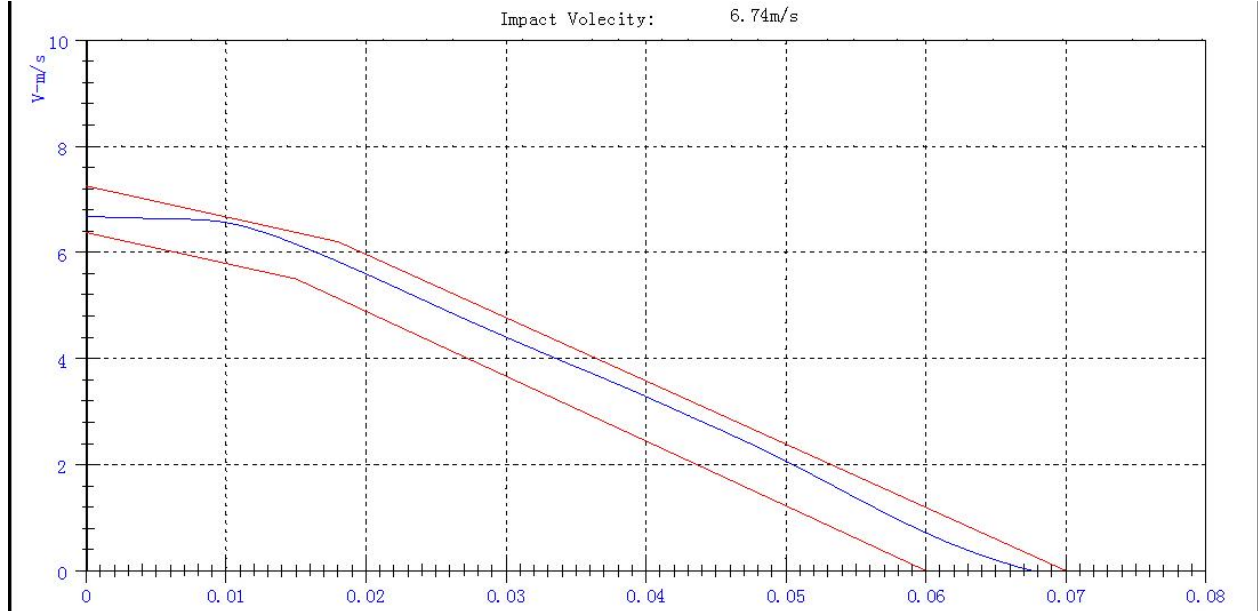
Acceleration curve for test: 20171117004S



⁵⁹ specified criteria for frontal and rear impact according to ECE R129, article 6.6.4.3, for lateral impact according to ECE R129, article 6.6.4.5.2.

⁶⁰ Alternative measuring value

Acceleration curve for test: 20171117005S



Test of straps concerning resistance to article 6.7.4 & 7.2.5

- Shoulder strap (5-point belt): the width and breaking load after conditioning
- Shoulder strap (Y- belt): the width and breaking load after conditioning
- Adjusting belt: the width and breaking load after conditioning

Straps marking: 2 strips

Width: 25mm

Color: Black

exam ple No.	conditioning	width mm	breaking load kN	breaking load spread %	avg. of breaking load kN	breaking load value of example 1 and 2 %			
1	article 8.2.5.2.1	25	14.18	0.03	14.18				
2	room conditions	25	14.19						
3	article 8.2.5.2.2		14.15			98.06			
4	light resistance		14.15			98.06			
5	article 8.2.5.2.3		14.16			99.86			
6	low temperature resistance		14.17			99.88			
7	article 8.2.5.2.4		14.18			99.96			
8	high temperature		14.17			99.92			
9	article 8.2.5.2.5		14.18			99.99			
10	humidity resistance		14.18			99.99			
11	article 8.2.5.2.6		--			--			
12	abrasion resistance ⁶¹		--			--			
	specified value for weight category 0, 0+, I		≥ 25			≥ 360			≥ 75
	weight category II		≥ 38			≥ 500			
	weight category III	≥ 38	≥ 720						

⁶¹ The abrasion resistance test only should be performed when the microslip test according to article 7.2.3 gives a result above 50% of the limit value according to article 6.7.4.3.4.

Test of straps concerning resistance to article 6.7.4 & 7.2.5

- Shoulder strap (5-point belt): the width and breaking load after conditioning
- Shoulder strap (Y- belt): the width and breaking load after conditioning
- Adjusting belt: the width and breaking load after conditioning

Straps marking: 7 strips

Width: 38mm

Color: Black

exam ple No.	conditioning	width mm	breaking load kN	breaking load spread %	avg. of breaking load kN	breaking load value of example 1 and 2 %			
1	article 8.2.5.2.1	38	22.66	0.13	22.64				
2	room conditions	38	22.63						
3	article 8.2.5.2.2		22.21			98.06			
4	light resistance		22.20			98.04			
5	article 8.2.5.2.3		22.64			99.96			
6	low temperature resistance		22.60			99.79			
7	article 8.2.5.2.4		22.63			99.95			
8	high temperature		22.61			99.86			
9	article 8.2.5.2.5		22.57			99.68			
10	humidity resistance		22.57			99.68			
11	article 8.2.5.2.6		20.05			88.54			
12	abrasion resistance		20.02			83.42			
	specified value for weight category 0, 0+, I		≥ 25			- ≥ 360			≥ 75
	weight category II		≥ 38			≥ 500			
	weight category III	≥ 38	≥ 720						

Test about the proof of production capability of CRS manufacturing according to ECE R129, article 9

1 Test conditions

- 1.1 Type KX-88
- 1.2 Reserved permit number in advance E4*129R03/01*0052*00
- 1.3 Customer Ningbo Kangxin Children Product Co., Ltd.
Meihu Village, Henghe Town, Cixi City, Zhejiang Province, 315318 China

2 Test report

- 2.1 Test sample
 - 2.1.1 Number 5 complete CRS samples
 - 2.1.2 Marking

seat number	part number	test
1	1/5	20190722004S
2	2/5	20190722005S
3	3/5	20190722006S
4	4/5	20190722007S
5	5/5	20190722008S

- 2.2 Utilization of the manikin
 - 2.2.1 Type
 - 2.2.2 Mass [kg] 14.6
 - 2.2.3 Others Q3 dummy, reward facing, ECRS on reclined position, support leg in longest length position

3 Test results

3.1	Date of test	22.07.2019
3.2	Dynamic tests	See chapter 4, measuring results (Page 3)
3.3	Check of marking and instruction on installation and use	Conforms to given regulation

4 Measuring results Dynamic tests in accordance with article 9.2.1

	unity	samples: KX-88 anchorage CRS: ISOFIX					specified value
test number		20190722004S	20190722005S	20190722006S	20190722007S	20190722008S	
direction of CRS installation		rearward	rearward	rearward	rearward	rearward	
used anchorages		H ₁ ,H ₂	H ₁ ,H ₂	H ₁ ,H ₂	H ₁ ,H ₂	H ₁ ,H ₂	
speed at impact of test-trolley	km/h	49.05	49.01	49.18	49.01	49.22	50 ⁰⁻²
breaking distance test-trolley	mm	670	672	670	669	673	650±50
maximum deceleration test-trolley ⁶²	g	23.45	23.44	23.84	23.94	24.08	
Head performance criterion (15)		432.54	438.12	373.97	554.01	409.87	600
resulting Head speeding up	g	65.71	63.2	60.22	69.44	62.65	75
resulting thorax speeding up	g	34.9	41.24	34.51	39.45	35.81	55
Upper neck tension force(Fz)	N	1255.51	1178.15	1155.76	1751.07	1118.21	⁶³
Upper neck flexion moment(My)	Nm	26.37	27.42	23.67	21.99	25.84	⁶⁴
Chest deflection (TBC)	Mm	8.69	9.86	8.59	9.42	9.09	⁶⁵
Abdominal pressure (P)	bar	0.12/0.12	0.11/0.11	0.12/0.12	0.17/0.12	0.13/0.1	1.2

⁶² Progress and filtering according to ECE R129, appendix 7, Specified value for calibrating test: 20 g until 28 g

⁶³ For monitoring purpose only, will be reviewed within 3 years till 2020.

⁶⁴ For monitoring purpose only, will be reviewed within 3 years till 2020.

⁶⁵ For monitoring purpose only, will be reviewed within 3 years till 2020.

maximum moving of the manikins head s_K	mm	685	707	670	678	679	$L^{66} = 700$
$s_K \leq 1,05 * L$	mm	yes	yes	yes	yes	yes	yes
avg. X_K of maximum moving of the manikins head	mm	683.8					
standard deviation S_K	mm	14.02					
$X_K + S_K \leq L^5$	mm	697.82					L= 700
$X_B + S_B$ for HPC(15)		509.36					--
$X_B + S_B$ for resulting Head value ⁶⁷	g	67.74					--
$X_B + S_B$ for resulting thorax value ⁶⁸	g	40.18					--
$X_B + S_B$ for Abdominal pressure ⁶⁹	bar	0.15/0.12					--

$$S = \sqrt{\left(\frac{1}{n-1} \sum_{i=1}^n (x_i - \bar{x})^2 \right)} \quad \dots \text{Standard deviation}$$

⁶⁶ Specified value according to article 6.6.4.4 of ECE-R 129

⁶⁷ Specified value according to article 6.6.4.3.1 of ECE-R 129, and records for information only

⁶⁸ Specified value according to article 6.6.4.3.1 of ECE-R 129, and records for information only

⁶⁹ Specified value according to article 6.6.4.3.1 of ECE-R 129, and records for information only

List of modifications:

- | | | |
|---|------------------|-----|
| 1 | Correction of: | --- |
| 2 | Modification of: | --- |
| 3 | Addition of: | --- |
| 4 | Deletion of: | --- |

NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD

KX-88 Technical Document

Created by : Korben Qian

Approved by : Sunli Qi

File No. : KX-88-00

Revision : 00

Effective Date : Sep-20-2019

Control Status :

受控



Content

1. General information	P.3
2. Photos of car seat.....	P.5
3. Instruction manual.....	P.6
4. Technical drawings	P.25
5. Packing details	P.49
6. Labels and label location.....	P.50
7. Instruction manual location	P.55
8. Production date location.....	P.56
9. Declaration for toxicity and flammability.....	P.60
10.BOM.....	P.67
11.COP Clearance Documents.....	P.68



General information	Section number:1
	Version: 00
	Page number: 1/2

Make (trade name of manufacturer)	: Kangxin
Type and general commercial description(s)	: KX-88
Variant	: -
Trade mark	: Kissing Baby, 4KRAFT, AHS BABY, Anpanman, ASALVO, AVANTI, B&BABYBUS, B@B WORLD, B01, BABIDEAL, Baby, BABY 1st, BABY DESIGN, BABY DIREKT, BABY ELEGANCE, Baby Kit's, BABY LEE, BABY MONSTER, BABY ONE, BABY POINT, BABY SAFE, baby&plus, babyauto, babydesign, BABYELLE, BABYHIT, babyhome, Babylala, BABYRELAX, Bambino, BAMBINO WORLD, be cool, bebe, Bebe Stars, Bebe style, BEBE9, BEBE9 EXPERT, BEBEDUE, Bebehut, BEBEQO, BEBESAF, BEBESEGUTO, BEBETON, BERTONNE, BOMIKO, BQS, BREVI, BUDDY, BYBERIT, Cam, CANGAROO, CARBINO, Caretero, CASUALPLAY, Chabibow, CHIPOLINO, CHIPOLINO COSATTO, CLASSIC, coletto, CONECO, confort, COOL KIDS, COSATTO, cosco, Cozy N Safe, Cuddleco, DIVICAR, DUMBO, Elegance, EUROBIMBO, FAIRGO, FD DESIGN, FIBERO, FISHER DESIGN, FOPPAPEDRETTI, FORMULA BABY, HABER -KORN, Halfords, harmony, Highback Seat, I BABY, Infantastic, Infanti, Infantia, Inglesina, INNOVACIONES M.S.S.L, IO BIMBO JUNIOR, jane, JETEM, John Lewis, JOYELLO BIMBI IN ITALY, JUNIORS, just baby, Kidd, KIDDCARE, Kikkaboo, kind Comfort, KINDERKRAFT, klippan, KOML KIDS II, Koochi, KOOL TRADE, KU-KU DUCKBIL, LADITO, LAMA, LAPSI, LECOCOBABY, LILLY&MARC, LORELLI, LOVE WORLD, LUCKYSTAR, MAMAMAIA BABY, MARS DESIGN, MAXICOSI, MEE MEE, MONBEBE, MONITRADE, MOTHER BABY, Mothercare, MS, MY CHILD, Nattou, NICE IDEAS, nurse, OBABY, pampero, PARENT, PHIL&TED, PIERRE CARDIN ENFANTS, Pierre Cardin KANZ, PIERRE CARDIN PARIS, Pilsan, PLAY, PLAYXTREM, POPART, PREMAMAN, PrivateLabels, PUKU, RED KITE, SAFECRUISE, SAFETY 1st, SAFEWAY, SEE BABY, SNAPKIS, Sumex, SUNNYLOVE, SUPER NANNY, Titanium Bebylux, TITYWORLD, TONYBEAR, TOP MARK, TOURAGOO, TOYS R US. TRILLE, TROTTINE, TRULO ISRAEL, tuctuc, vivitta, XADVENTURE, X-TREME BABY, ZEKIWA, ZOOOPER, bbqool, bene baby, king baby, mega baby, mee-go, osann, migo, safetybaby, babyblume, booboo, 4BABY, swing isize, turn isize
Means of identification of type name / Trade mark	: Type designation
Location of the marking	: Headrest
Name and address of manufacturer	: Ningbo Kangxin Children Product Co., Ltd Meihu Village, Henghe Town, Cixi City, Zhejiang Province, 315318 China



General information	Section number:1
	Version: 00
	Page number: 2/2

Location and method of affixing of the ECE approval mark	:	On the rear of base ((Labels and label location)
Address(es) of assembly plant(s)	:	Ningbo Kangxin Children Product Co., Ltd Meihu Village, Henghe Town, Cixi City, Zhejiang Province, 315318 China
Information folder	:	
Information document name:	:	KX-88 Technical Document
Information document number:	:	KX-88-00
Brief description of the component	:	Refer to BOM
Description (Group, material, weight, etc.)	:	The ECRS is used in i-Size seating position of the vehicle which equipped with ISOFIX anchorages and approved according to ECE R14 and R16, is suitable to the children from 40-105cm, weight no than 18KG. The ECRS is integral class in which the Child occupant using harness belt fastened, with ISOFIX connection and support leg to be secured, rearward facing is suitable to the children from 40-105cm, three position reclining; forward facing is suitable to the children from 76-105cm, three position reclining. The ECRS is rotatable, and Chair to restrain child occupant and ISOFIX base is inseparate.
Fabric and paint	:	components from plastics (PP, ABS, PA6, etc), See Information document, section 10 - BOM Covering: cover be composed by fabric, sponge, lining and latex mattress. Color is various and designs in accordance to the requirements of ECE R129

Declaration of Production plant:

To: RDW

We: NINGBO KANGXIN CHILDREN PRODUCT CO., LTD

Email: korben@kx-baby.cn

Tax:0086-574-58968303

We declare that the Enhanced child restraint system KX-88 is made in our production plant:

Plant name: NINGBO KANGXIN CHILDREN PRODUCT CO., LTD

Address: MEIHU VILLAGE, HENGHE TOWN, CIXI, NINGBO, CHINA

Hereby declared!

NINGBO KANGXIN CHILDREN PRODUCT CO., LTD
GENERAL MANAGER: QISUNLI



Photos of car seat

Section number:2

Version: 00

Page number: 1/1



Instruction manual

Section number:3

Version: 00

Page number:1/19

CHILD SAFETY CAR SEAT

I-SIZE

USER MANUAL



Instruction manual	Section number:3
	Version: 00
	Page number:2/19

CONTENT

HOMOLOGATION
CORRECT POSITION IN THE VEHICLE
SAFETY IN THE VEHICLE
PROTECTING THE VEHICLE
USING THE CAR SEAT IN THE VEHICLE
REARWARD-FACING USE(PART 1)
FORWARD-FACING USE(PART 1)
INSTALLING IN VEHICLE
ADJUSTING THE SUPPORT LEG
REMOVING FROM THE VEHICLE
ADJUSTING THE RECLINING POSITION
REARWARD-FACING USE(PART 2)
360° ROTATION
SECURING BY MEANS OF HARNESS SYSTEM
FORWARD-FACING USE(PART 2)
SECURING THE CHILD CORRECTLY
REMOVING THE NEWBORN INLAY
REMOVING THE COVER
CLEANING
PRODUCT CARE
WHAT TO DO AFTER AN ACCIDENT
PRODUCT INFORMATION
PRODUCT DURABILITY
DISPOSAL
WARRANTY



Instruction manual	Section number:3
	Version: 00
	Page number:3/19

HOMOLOGATION



Dear customer!

Thanks you very much for purchasing this I-Size car seat. We assure you that in the development process of the car seat we focused on safety, comfort and user friendliness. The product is manufactured under special quality surveillance and complies with the strictest safety requirements. Pls referred to the vehicle manufacturer's handbook in order to have good experience of I size car seat.

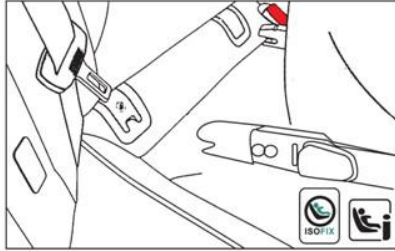
Warning! For proper protection of your child, it is essential to use and install the car seat according to the instructions given in this manual.

NOTE! According to local codes the product characteristic can be different.

NOTE! Please always have the instruction manual at hand and store it in the dedicated place at the car seat.

WARNING! Do not use forward-facing before the child is 15 months old and reached a size of 76cm.

Instruction manual	Section number:3
	Version: 00
	Page number:4/19



CORRECT POSITION IN THE VEHICLE

This is an I-Size Child Restraint System. It is approved to ECE R129, for use in I-Size compatible vehicle seating positions as indicated by vehicle manufacturers in the vehicle users' manual. If your vehicle does not have an I-Size seating position, please check the vehicle type list that included or for example on our homepage whether the installation is allowed. If your vehicle is not equipped with ISOFIX, please contact the vehicle manufacturer.

In exceptional cases, however, the car seat can be used on the front passenger seat. In this case, observe the following points:

- *Check whether the passenger seat is fitted with ISOFIX. If ISOFIX is not fitted, the car seat may not be used.
- *Deactivate the passenger airbag. If this is not possible in your vehicle, use of the car seat on the passenger side is prohibited.
- *Do not use rearwards of this I-size car seat in seating positions where there is an active frontal airbag installed.

It is imperative that you comply with the car manufacturer's recommendations.

WARNING! Items of luggage and other loose objects in the vehicle, which could cause injury in an accident, must always be safely secured. They can become deadly projectiles in the case of a car accident.

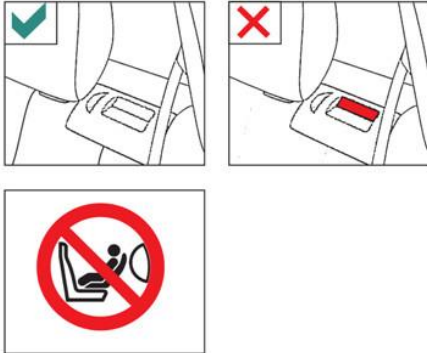
WARNING! Never leave your child unattended in the vehicle. The plastic parts in the child restraint system heat up in sun and the child may sustain burns. Protect your child and the car seat from direct sun exposure (e.g. by covering it with a light colored cloth).

pls note that the rigid items and plastic parts of an enhanced child restraint system shall be so located and installed that they are not liable, during everyday use of the vehicle, to become trapped by a movable seat or in a door of the vehicle;

WARNING! The seat is not suitable for use with a normal car seatbelt. If the seat is secured with normal car seatbelt, in case of an accident the child and other occupants of the car may be severely injured or killed.

WARNING! The car seat is not allowed to be used on vehicle seats, which are installed at right angles to the direction of travel. The car seat should not be used on rearward-facing seats, for example in a van or minibus. The car seat must always be secured in place with the ISOFIX system, even when not in use. If you have to perform an emergency stop or if you are involved in a minor collision, an unsecured seat can injure you and other passengers.

Instruction manual	Section number:3
	Version: 00
	Page number:5/19



SAFETY IN THE VEHICLE

WARNING!Never use the car seat on a vehicle seat with an activated front airbag.This does not apply to so-called side airbags.

In order to guarantee the best possible safety for all passengers make sure that...

- *foldable backrests in the vehicle are locked in their upright position.
- *when installing the car seat on the front passenger seat,adjust the vehicle seat in rearmost position.
- *all objects likely to cause injury in the case of an accident are properly secured.
- *all passengers in the vehicle are buckled up.

PROTECTING THE VEHICLE

Traces of use and/or discolouration can appear on some vehicle seats made from delicate materials (e.g. velour,leather,etc.)if car seats are used.You can avoid this by putting,e.g. a blanket or a towel underneath the car seat.In this context also see our cleaning directions.It is essential that these are followed before the first use of the car seat.

It is the danger of making any alterations or additions to the device without the approval of the Type Approval Authority, and a danger of not following closely the installation instructions provided by the enhanced child restraint systems manufacturer

The I-size car seat shall not be used without the cover

The i-size car seat cover should not be replaced with any other than the one recommended by the manufacturer, because the cover constitutes an integral part of the restraint performance

Pls keep the instructions alonge with Isize car seat until it out of its life

Instruction manual

Section number:3

Version: 00

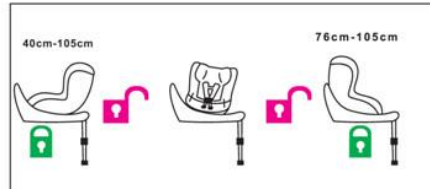
Page number:6/19



REARWARD-FACING USE(PART 1)



FORWARD-FACING USE(PART 1)



USING THE CAR SEAT IN THE VEHICLE

Depending on age and size the car seat may be used forward-facing and rearward-facing

NOTE!Accident statistics verify that in a vehicle the rearward-facing transport of your child is the safest.Therefore we recommend to use the car seat as long as possible in rearward-facing position.

REARWARD-FACING USE(PART 1)

(40-105cm)

We recommend to use the car seat in rearward-facing position up to size of 105cm and max 18kg.

WARNING!!It is mandatory to use rearward-facing up to an age of 15 months and a size of 75cm.Even beyond this limit a rearward-facing transport is the safest.For more details please read chapter:REARWARD-FACING USE(PART 2).

FORWARD-FACING USE(PART 1)

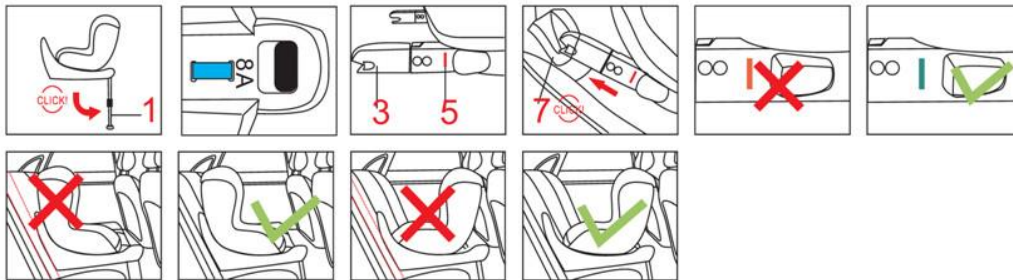
(76-105cm)

Use of the seat in forward-facing position is permitted when the child is older than 15 months and min.76cm tall. and max 18kg

NOTE!Adjust the headrest to suit the height of the child.For more details please read chapter:FORWARD-FACING USE(PART 2).

NOTE!Newborns and infants who are not yet able to sit up by themselves(up to around 1 year)should,for orthopaedic and safety reasons,always be transported in the flattest recline position rearward-facing.

Instruction manual	Section number:3
	Version: 00
	Page number:7/19



INSTALLING IN VEHICLE

NOTE!If your vehicle does not have an I-Size seating position,please check the vehicle type list that is included.

*Please select an appropriate seat in the vehicle

*Unfold the support leg 1 until locks

Pull the isofix extent strap 8A under seat body, and the both ISOFIX 3 be extend out automatically

*The safety indicator must be clearly visible on both ISOFIX release buttons.

*Push the seat in the direction to the backrest until it is fully aligned with the backrest.Latch both ISOFIX attachments with the corresponding ISOFIX lower anchorage,when you hear a “click” means that the ISOFIX attachments and the ISOFIX lower anchorage are all latched completely.Meanwhile the ISOFIX latching indications 5 shows green.Now the installation of the ISOFIX attachments is finished. Make sure no spaces between the car seat and the vehicle backrest.

Pull the isofix extent strap 8A and push seat body make sure baby car base staly firmly of bacrest of vechile seat

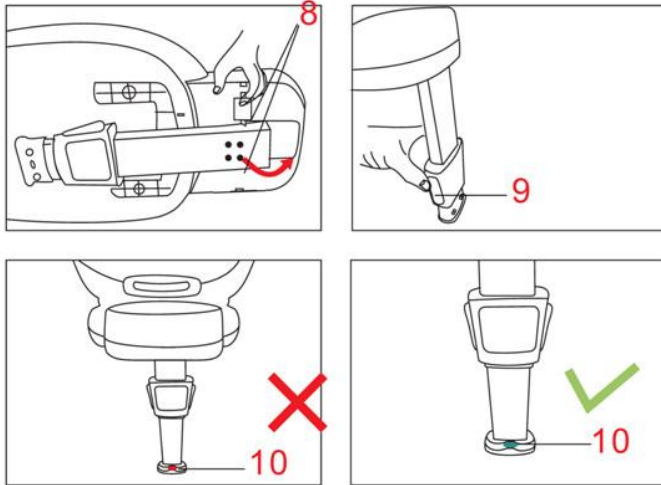
NOTE!The ISOFIX anchorage 7 points are two metal lugs per seat and are located between the backrest and the seat of the car.If you are in any doubt,consult your car’s instruction manual for assistance.

*If the ISOFIX anchorage points in your car are difficult to access,you should use the connect guides provided in order to avoid damaging the cover.

*If necessary attach the connect guides provided with the longer lug pointing upwards into both ISOFIX anchorage points.In many cars it is more effective to install the connect guides in an opposing direction.

NOTE!Do not put any objects in the foot area in front of the child seat.

Instruction manual	Section number:3
	Version: 00
	Page number:8/19



ADJUSTING THE SUPPORT LEG

Make sure that the support leg 1 is fixed in the forward position. Press the support leg switches 8 simultaneously to pull the support leg. Pull out the support leg until it safely stands on the vehicle floor. Press the support leg adjustment buttons 9 and Pull the support leg to the next locking position to ensure optimal force absorption. Please ensure that the support leg indicator 10 shows green.

WARNING! The support leg must always have direct contact with the ground. It is not allowed to place objects under the support leg. For information on the storage compartments in the foot area please contact your vehicle manufacturer.

NOTE! Make sure that this I-Size still rests flat on the car seat.

<h1>Instruction manual</h1>	Section number:3
	Version: 00
	Page number:9/19

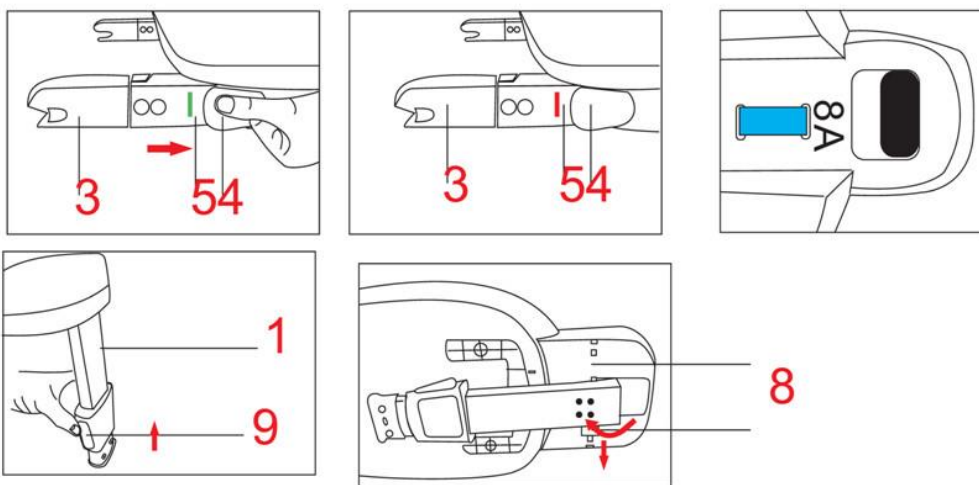
REMOVING FROM THE VEHICLE

Perform the installation procedure in reverse order.

Unlock the ISOFIX connectors 3 on both sides by pressing the release buttons 4 simultaneously and withdrawing simultaneously. Push the ISOFIX EXTENT Strap 8A under the seat body, adjust the both ISOFIX connectors 3 to the short position.

Pull out the car seat from the ISOFIX anchorage points. Bring back the ISOFIX connectors 3 in its starting position.

Push the button upwards on the support leg and press it to push the support leg back into its original position. Fold the support leg 1 back under the base.

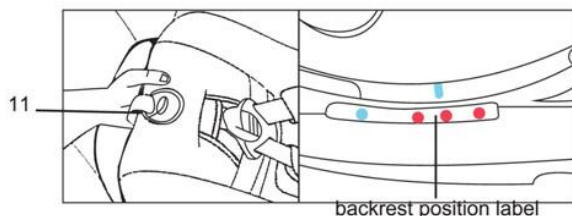


Instruction manual

Section number:3

Version: 00

Page number:10/19



backrest position label

ADJUSTING THE RECLINING POSITION

This I-Size offers up to 3 different sitting and reclining positions for the safe and comfortable transport of your child in the car. If wanted, activate the position adjustment handle 11 on the front of the child seat, to put the I-Size in the required reclining positions.

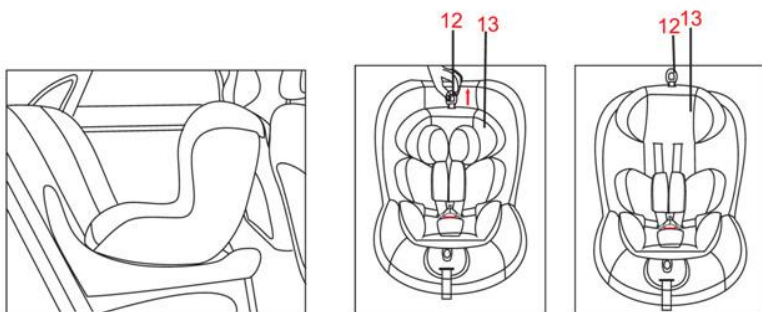
The rearward face is only blue color position available, three red position is available to forward face.

Instruction manual

Section number:3

Version: 00

Page number:11/19



REARWARD-FACING USE(PART 2)

(40-105cm)

Adjusting the headrest 13

NOTE!The newborn inlay protects your child.It should be used up to size of 60cm.

NOTE!The headrest ensures the best possible protection for your child only if it is adjusted to the optimum height.There are 12 height positions that can be set.

*The headrest must be adjusted so that less remains free between the child's shoulder and the headrest.

*Activate the adjustable ring 12 on the top of the headrest and move it into the required position.

NOTE!The shoulder belts are firmly connected to the headrest and do not have to be adjusted separately.

NOTE!The car seat can be used in rearward-facing position up to 105cm.

The seat may only be used forward-facing,if:

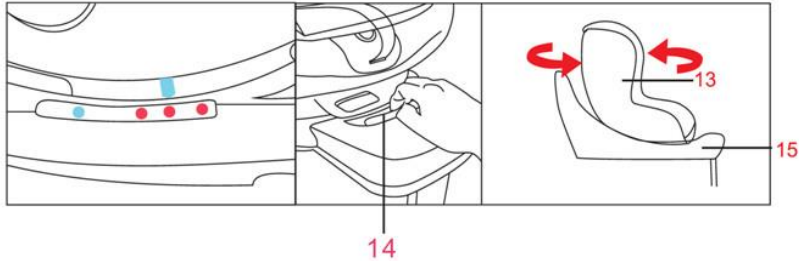
*the child is >76cm tall.

*the child min.15months old.We recommend to use the seat as long as possible in rearward-facing position.

*the correctly adjusted headrest covers the indicator.

*the headrest is at 6th or higher position.

Instruction manual	Section number:3
	Version: 00
	Page number:12/19



360° ROTATION

The car seat can be rotated 360° , in order to help to put your child into and take your child out of the vehicle.This also allows you change the position of the seat from rearward-facing to forward-facing.

*Now you can push the rotation button 14 to rotate the seat shell towards the door and strap the child in without difficulty. See chapter,"SECURING BY MEANS OF HARNESS SYSTEM".

Shell be locked in palce with an audible "klik"

NOTE!Before starting your journey you must return the seat shell to a defined locked position by pressing the position adjustment handle.

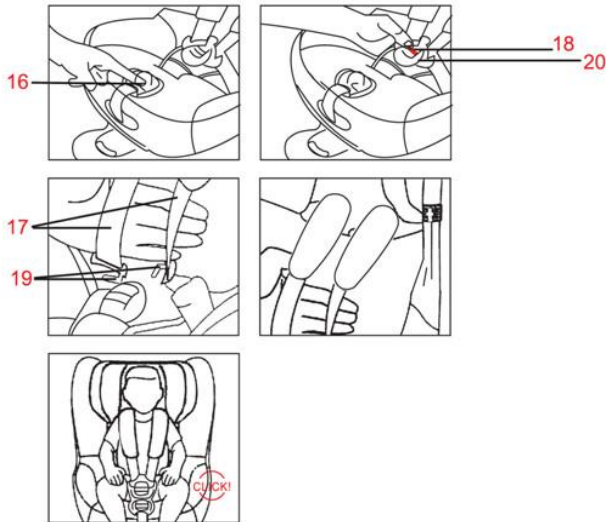
*If the indicator show green arrow,the seat is no locked , repeat the process if necessary.

NOTE!Make sure that the seat shell is correctly locked into place by trying to rotate it,without pressing the position adjustment handle.

NOTE!Avoid getting any dirt or sand in between the upper seat shell 13 and the base 15.This can have a negative impact on the performance of the rotation and recline function.Should this happen the dirt should be removed before rotating and reclining the seat any further to avoid any permanent damage of the seat.

WARNING!While travelling the car seat must always be locked in the rearward-facing or forward-facing position.Never use the seat in locked crosswise position or in any unlocked intermediate position while travelling.

Instruction manual	Section number:3
	Version: 00
	Page number:13/19



SECURING BY MEANS OF HARNESS SYSTEM

The shoulder belts are firmly attached to the headrest and must not be adjusted separately.

NOTE!Ensure that the headrest is correctly locked in place before using the car seat.

NOTE!Ensure the car seat is free from toys and hard objects.

*Loosen shoulder belts by pressing the adjustment button 16 on central adjuster and simultaneously pulling both shoulder belts 17 up.

NOTE!Please always pull on shoulder belts and not on belt pads .

*Undo the belt buckle 20 by pressing the red button 18 firmly.

NOTE!Ensure that shoulder belt are not twisted.

*Put your child into the car seat.

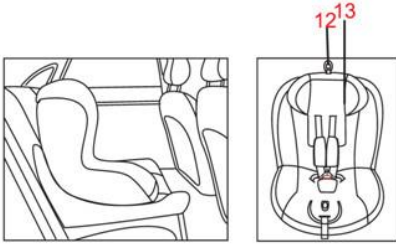
*Place shoulder belts directly over your child's shoulders.

*Place both belt tongues 19 together and lock them in place in belt buckle with an audible "CLICK".

*Pull cautiously on central adjustment belt in order to tighten shoulder belts until they fit your child's body.

NOTE!For the car seat to offer optimum protection,shoulder belts should fit the body as closely as possible.Please assure that the lap belts lie close to the hip as low as possible and are appropriately tight.

Instruction manual	Section number:3
	Version: 00
	Page number:14/19



FORWARD-FACING USE(PART 2)

(76cm-105cm and older than 15 months)

Using the seat in forward-facing position is permitted if the child is older than 15 months and min.76cm tall. In order to offer your child the highest level of protection,we recommend to use the car seat in the rearward-facing position for as long as possible.If there is not enough room for your child's legs you can use the car eat in the forward-facing position.

NOTE!Accident statistics prove that the safest way to transport your child in the car is in the rearward-facing position.Therefore we recommend to use the car seat in the rearward-facing position for as long as possible.

NOTE!The car seat can be used in rearward-facing position up to 105cm.The integrated Driving Direction Control Technology in the car seat prevents the usage of seat in forward-facing position till 6th headrest position.

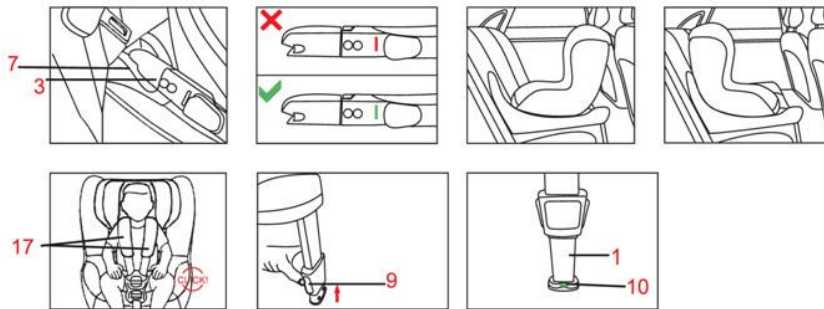
The seat may only be used forward-facing,if

*the child is >76cm tall.

*the child min.15months old.We recommend to use the seat as long as possible in rearward-facing position.

*the headrest is at 7th or higher position.

Instruction manual	Section number:3
	Version: 00
	Page number:15/19



SECURING THE CHILD CORRECTLY

To ensure optimum safety for your child, please always check before commencing travel that ...

- *the ISOFIX connectors 3 are correctly fastened to the vehicle and the support leg 1 has been correctly installed.
- *the seat is locked in either rear or forward facing position.
- *the headrest has been adjusted to the correct height.
- *the 5-point belt system has been correctly adjusted to the size of the child, the shoulder belts 17 have not been twisted and the belt system has been locked.
- *the support leg 1 has been stood to the car floor safely and the support leg indicator 10 shows green.

Newborns and infants who are not yet able to sit up by themselves (up to around 1 year) should, for orthopaedic and safety reasons, always be transported in the flattest recline position rearward-facing.

Instruction manual

Section number:3

Version: 00

Page number:16/19

**REMOVING THE NEWBORN INLAY**

The preinstalled newborn inlay 21 helps to support lying comfort and fit for the smallest babies.

The newborn inlay may be removed after the baby is 61cm(approx.3months)to provide more space for the child.

To remove the newborn inlay open the snap buttons of the headrest cover.Now first pull off the headrest cover and then remove the newborn insert.After that put the headrest cover back in place,reposition the shoulder belts and finally close the snap buttons again.

Before washing the newborn inlay,please remove the foam in newborn inlay via dedicated slots.You can put the foams back through the slot after the newborn inlay is washed and dried.

Instruction manual

Section number:3

Version: 00

Page number:17/19

REMOVING THE COVER

Removal

The cover consists of 7 components fixed to the seat shell by hook and loop fastener, elastic piping, snap buttons and brackets. Once you have released all the fastenings, you can remove the individual components or washing.

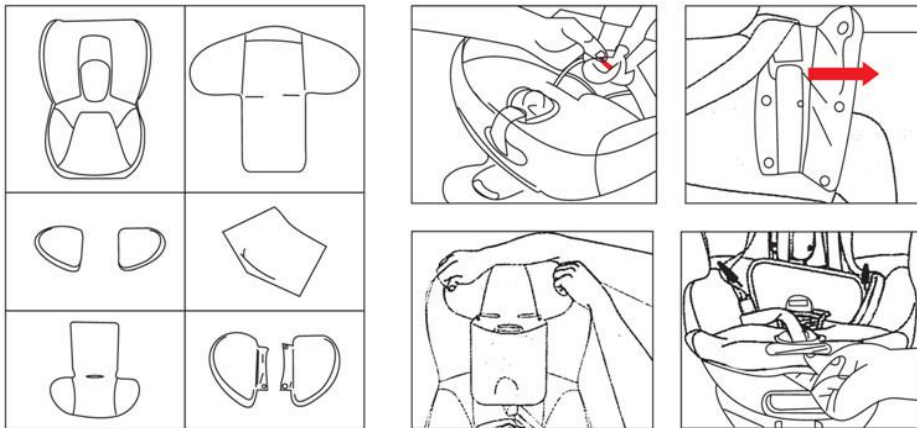
Proceed as follow:

- *Open the belt buckle of the 5-point belt system.
- *Open all snap buttons of the pads and cover parts.
- *Unhook the shoulder pads from the brackets.
- *Remove all belt pads.
- *Thread the shoulder belts out of the cover.
- *To fix the cover again on the seat carry out the steps in reverse order.

NOTE! When remounting the shoulder pads, it is essential to ensure that...

- *the closed side faces towards the child neck.
- *the shoulder pads are perfectly mounted on the brackets.
- *the shoulder belts are guided inside the shoulder pads.

WARNING! The cover is an integral component of the car seat's safety design. The car seat must therefore never be used without the cover.



Instruction manual	Section number:3
	Version: 00
	Page number:18/19



CLEANING

It is important to use an original seat cover only since the cover is an essential part of the function. You may obtain spare covers at your retailer.

NOTE! Please wash the cover before you use it the first time. Seat covers are machine washable at max. 30°C on delicate cycle. If you wash it at higher temperature, the cover fabric may lose colour. Please wash the cover separately and never dry it mechanically! Do not dry the cover in direct sunlight! You can clean the plastic parts with a mild detergent and warm water.

WARNING! Please do not use chemical detergents or bleaching agents under any circumstances!

WARNING! The integrated harness system can not be removed from the car seat! Do not remove parts of the harness system! The harness system can be cleaned with a mild detergent and warm water.

PRODUCT CARE

To guarantee that your car seat provides the maximum protection, it is essential to comply with the following points:

- *All major components of the car seat must be regularly checked for damage. The mechanical parts must work without problems.
- *Make sure that the car seat is not jammed between hard parts such as the car door, seat rails etc., which can damage it.
- *Avoid getting any dirt or sand in between the upper seat shell and the base. This can have a negative impact on the performance of the rotation and recline function. Should this happen the dirt should be removed before rotating and reclining the seat any further to avoid any permanent damage of the seat.

WHAT TO DO AFTER AN ACCIDENT

An accident may cause damage to the car seat that is not visible to the naked eye. Please exchange the seat without fail after an accident. In case of doubt contact the retailer or manufacturer.

PRODUCT INFORMATION

If you have any questions contact your retailer first. You should have the following details ready:

- *Serial number (see sticker)
- *Make and model of the vehicle and the position of the vehicle seat on which the car seat is used
- *Weight, age and height of the child

Further information about our products can be found at the website.

Instruction manual	Section number:3
	Version: 00
	Page number:19/19

PRODUCT DURABILITY

The car seat is designed to meet its specifications for the entire service life of approximately 4 years. However, as there can be very large temperature fluctuations and unpredictable strains in vehicle, the following points must be observed:

*If the vehicle is directly exposed to sunlight for a longer time, the child car seat must be removed from the vehicle or covered with a light cloth.

*Regularly check all plastic and metal parts of the seat for damage, deformation or change of colour. If you discover any changes, the car seat must be disposed or checked and possibly replaced by the manufacturer.

*Changes to fabric, especially bleaching, are perfectly normal when used in a vehicle and do not impair the seat's function.

DISPOSAL

To protect the environment we ask the user to separate and dispose the waste arising at the start (packaging) and the end (product parts) of the car seat's lifespan. Waste removal is arranged differently depending on the local authorities. In order to ensure that the car seat is disposed off in accordance with regulations, contact your area's waste removal agency or local authority. Always observe your country's waste disposal regulations.

WARRANTY

The following warranty applies solely in the country where this product was initially sold by a retailer to a customer.

1. The warranty covers all manufacturing and material defects, existing and appearing, at the date of purchase or appearing within a term of three years from the date of purchase from the retailer who initially sold the product to a consumer (manufacturer's warranty). Please check the product with respect to completeness and manufacturing or material defects immediately at the date of purchase or immediately after receipt. Please always keep your dated proof of purchase.
2. In case of a defect, stop using the product immediately. To obtain the warranty please take or ship the product to the original retailer who initially sold this product to you in a clean and complete condition and submit an original proof of purchase (sales receipt or invoice). Please do not take or ship the product to the manufacturer directly.
3. This warranty does not cover any damages which result from misuse, environmental influence (water, fire, accidents etc.), normal wear and tear or failure to comply with the instructions provided in this user manual. The warranty does not apply if modifications and services were performed by unauthorized persons or if non-original components and accessories were used.
4. This warranty does not affect any statutory consumer rights, including claims in tort and claims with respect to a breach of contract, which the buyer may have against the seller or the manufacturer of the product.



Technical drawings	Section number:4
	Version: 00
	Page number: 2/26

Part No. 零件号	Name 名称	Qty 数量	Unit 单位	Material 材料	Manufactory 生产厂	DRAWING NO. 图号
1	HEADREST	1	PCS	PP	NINGBO KANGXIN CHILDREN PRODU CT CO.,LTD	KX-88-00-001
2	W STORAGE	1	PCS	PP	NINGBO KANGXIN CHILDREN PRODU CT CO.,LTD	KX-88-00-002
3	MAIN BODY	1	PCS	PP	NINGBO KANGXIN CHILDREN PRODU CT CO.,LTD	KX-88-00-003
4	METEL SIDE RIB	2	PCS	A3 STEEL	ningbo jiali metal product Factory	KX-88-00-004
5	LIFE+RIGHT PANEL	1	PCS	PP	NINGBO KANGXIN CHILDREN PRODU CT CO.,LTD	KX-88-00-005
6	UPPER BASE	1	PCS	STEEL	NINGBO KANGXIN CHILDREN PRODU CT CO.,LTD	KX-88-00-006
7	RECLINING BUTON	1	PCS	ABS	NINGBO KANGXIN CHILDREN PRODU CT CO.,LTD	KX-88-00-007
8	WHEEL COVER	1	PCS	PP	NINGBO KANGXIN CHILDREN PRODU CT CO.,LTD	KX-88-00-008
9	MAIN STEEL BODY	1	PCS	pp	ningbo jiali metal product Factory	KX-88-00-009
10	LOWER BASE	1	PCS	pp	NINGBO KANGXIN CHILDREN PRODU CT CO.,LTD	KX-88-00-010
11	SUPPORT LEG	1	PCS	Aluminu m	ningbo jiali metal product Factory	KX-88-00-011
12	ISOFIX CONNECTOR	2	PCS	STEEL	ningbo jiali metal product Factory	KX-88-00-012
13	ADJUSTOR STRAP	1	PCS	POLYST ER	NINGBO KANGXIN CHILDREN PRODU CT CO.,LTD	KX-88-00-013
14	HARNES S SYSTEM	1	PCS	POLYST ER	NINGBO KANGXIN CHILDREN PRODU CT CO.,LTD	KX-88-00-014
15	INFANT INLAY	1(1/1)(1)	PCS	PU FOAM	CIXI KUANGYAN JIAYAN PACKGE FACTORY	KX-88-00-015
16	HEADREST EPS	1	PCS	EPS	CIXI KUANGYAN JIAYAN PACKGE FACTORY	KX-88-00-016
17	BACKREST EPS	1	SET	EPS	CIXI KUANGYAN JIAYAN PACKGE FACTORY	KX-88-00-017

借/通用件标记											
描图											
描校											
旧底图总号											
底图总号											
签字											
日期											

标记	处数	分区	更改文号	签名	日期						
						阶段标记	重量	比例			
设计			标准化								
校对			审核								
工艺			批准								

NINGBO KANGXIN CHILDREN PRODUCT CO., LTD

EXPLODED DRAWING

KX-88

共 1 张 第 1 张



<h1>Technical drawings</h1>	Section number:3
	Version: 00
	Page number: 3/26

NINGBO KANGXIN CHILDREN PRODUCT CO., LTD		B1	
标志	分区	阶段标记	比例
处数	更正文号	A	1:1
日期	日期	共 1 张 第 1 张	
签名	签名	审核	批准
设计	校对	工艺	

借/通用件备注
插图
插图
插图总号
底图总号
签字
日期



Technical drawings

Section number:4

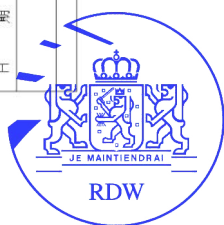
Version: 00

Page number: 4/26

Technical drawings of a children's toy car, showing front, side, and top views with dimensions. The front view shows a width of 440 and a height of 60. The side view shows a height of 70 and a wheel diameter of 130. The top view shows a width of 665 and a height of 70. A separate drawing shows the car's base with dimensions 320 and 320.

NINGBO KANGXIN CHILDREN PRODUCT CO., LTD											
									D		
标记	处数	分区	更改文号	签名	日期	阶段标记	重量	比例	共 1 张 第 1 张		
设计	签名	日期	标准化	签名	日期	A		1:1			
校对			审核								
工艺			批准								

备注/通用件标记	
插图	
审核	
制图员	
制图员	
签字	
日期	



<h1>Technical drawings</h1>	Section number:4
	Version: 00
	Page number: 5/26

NINGBO KANGXIN CHILDREN PRODUCT CO., LTD.		PP		Headrest		KX-88-02-01	
标记	数量	分区	更改符号	签名	日期	阶段标记	比例
设计							1:1
校对							
工艺							
				标准化	审核	共 1 张 第 1 张	



<h1>Technical drawings</h1>	Section number:4
	Version: 00
	Page number: 6/26

附表	
基本尺寸	公差值
≤10	±0.15
10~25	±0.20
25~50	±0.30
50~100	±0.40
100~250	±0.60
250~500	±1.20
500~750	±2.00
750~1000	±3.50
角度	±0.5°
环境温度	20℃±3℃

NINGBO KANGXIN CHILDREN PRODUCT CO., LTD

IM STORAGE

KX-88-02-02

技术要求

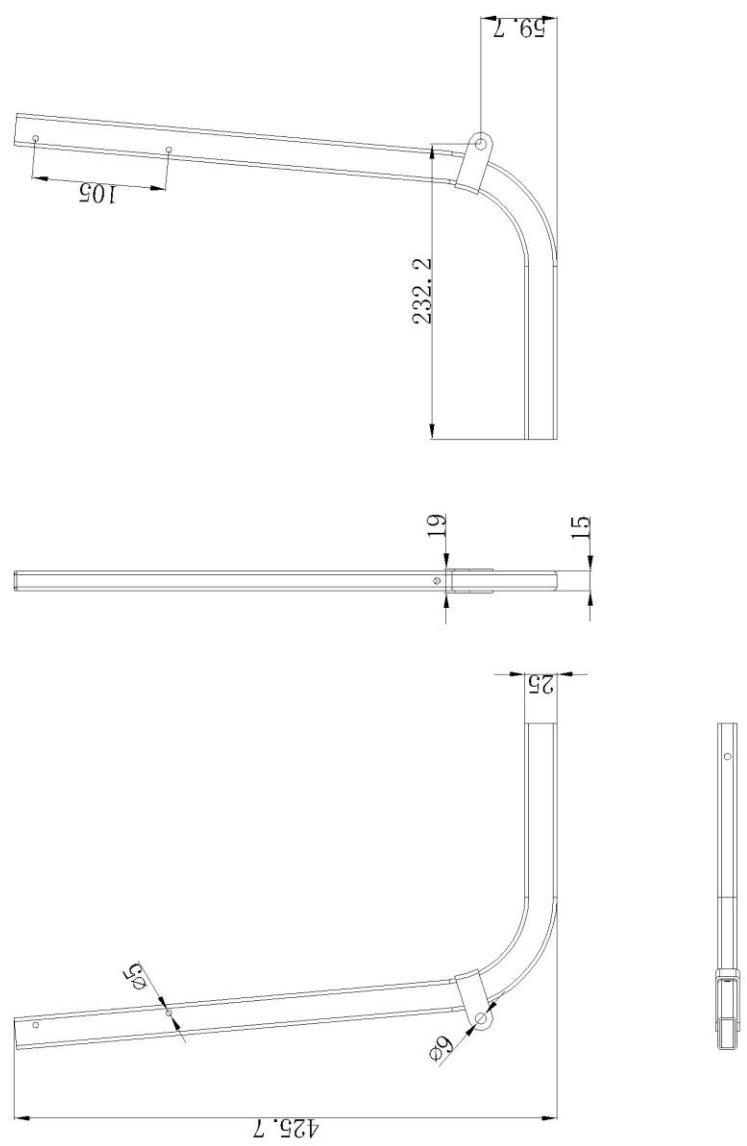
1. 制作应无飞边、划伤、熔合痕等缺陷。
2. 未注圆角R0.5~1.未注拔模斜度为1/50。
3. 其余技术要求按《塑料件检查通用技术条件》的要求。

标记	处数	分区	更改文号	签名	日期
设计	姓名	日期	标准化	姓名	日期
校对	姓名	日期	审核	姓名	日期
工艺	姓名	日期	批准	姓名	日期

阶段标记	重量	比例
A		1:1
共 1 张 第 1 张		



Technical drawings	Section number:4
	Version: 00
	Page number: 8/26



NINGBO KANGXIN CHILDREN PRODUCT CO., LTD.		METAL SIDE RIB		KX-88-02-04	
设计	校核	工艺	审核	批准	共 1 张 第 1 张
标准	日期	标准	日期	比例	1:1
设计	校核	工艺	审核	批准	

其他通用件号	
插图	
插图	
图号	
图号	
图号	
图号	
图号	
图号	
图号	



<h1>Technical drawings</h1>	Section number:4
	Version: 00
	Page number: 10/26

NINGBO KANGXIN CHILDREN PRODUCT CO., LTD.

UPPER BASE

KX-88-02-06

PP		阶段标记		重量		比例	
		A				1:1	
共 1 张 第 1 张							

标况	处数	分区	更改文号	签名	日期
设计	校对	工艺	日期	签名	日期
				标准化	
				审核	
				批准	

借/通用件标记	
插图	
描图	
描图总号	
成图总号	
签字	
日期	



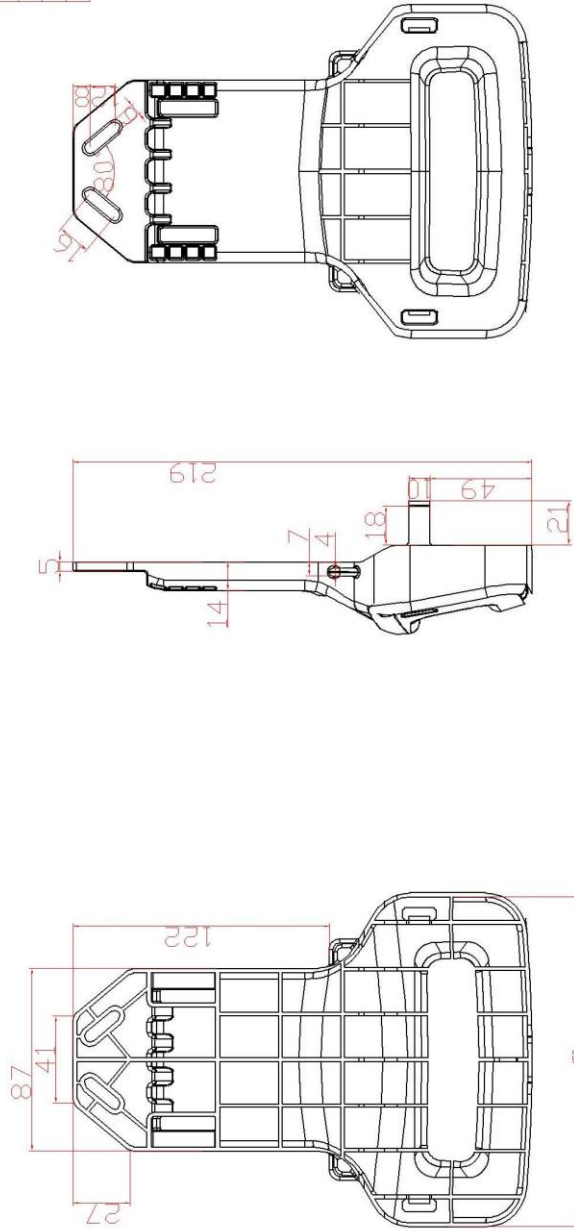
Technical drawings

Section number:4

Version: 00

Page number: 11/26

基本尺寸	公差值
≤10	±0.15
10~25	±0.20
25~50	±0.30
50~100	±0.40
100~250	±0.60
250~500	±1.20
500~750	±2.00
750~1000	±3.50
角度	±0.5°
环境温度	20℃±3℃



技术要求

- 1、侧边应无毛边、划伤、熔合痕等缺陷。
- 2、未注圆角R0.5~1,未注拔模斜度为1/60。
- 3、其余技术要求按《塑料件检验通用技术条件》的要求。

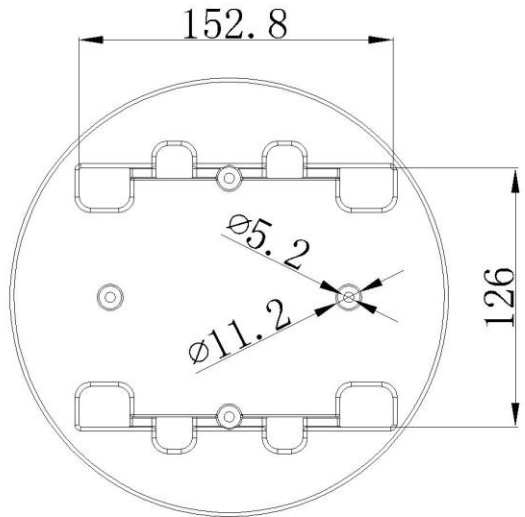
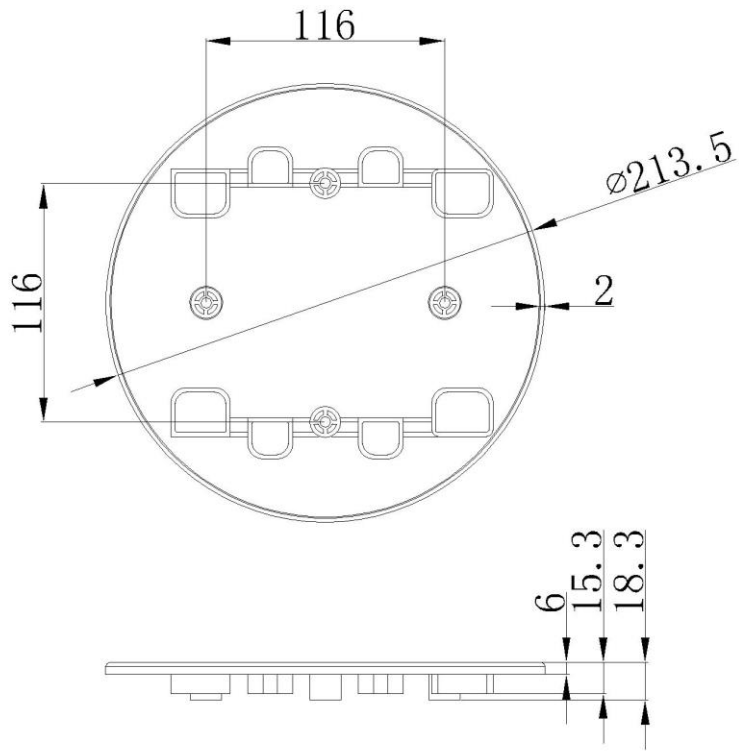
NINGBO KANGXIN CHILDREN PRODUCT CO., LTD.		RECLINING BUTTON	
ABS	阶段标记	重量	比例
	A		1:1
设计		共 1 张 第 1 张	
校对		KX-88-02-007	
工艺			

KX-129-02-007

借/通用件标记	日期	签名	日期
插图	日期	签名	日期
描图	日期	签名	日期
审核	日期	签名	日期
制图	日期	签名	日期
校对	日期	签名	日期
审核	日期	签名	日期
制图	日期	签名	日期



Technical drawings	Section number:4
	Version: 00
	Page number: 12/26



借/通用件登记
描图
描校
旧版图总号
底图总号
签字
日期

						PP			NINGBO KANGXIN CHILDREN PRODUCT CO., LTD		
									WHEEL COVER		
标记	处数	分区	更改文号	签名	日期	阶段标记	重量	比例			
设计			标准化			A		1:1			
校对			审核			共 1 张 第 1 张			KX-88-02-08		
工艺			批准								

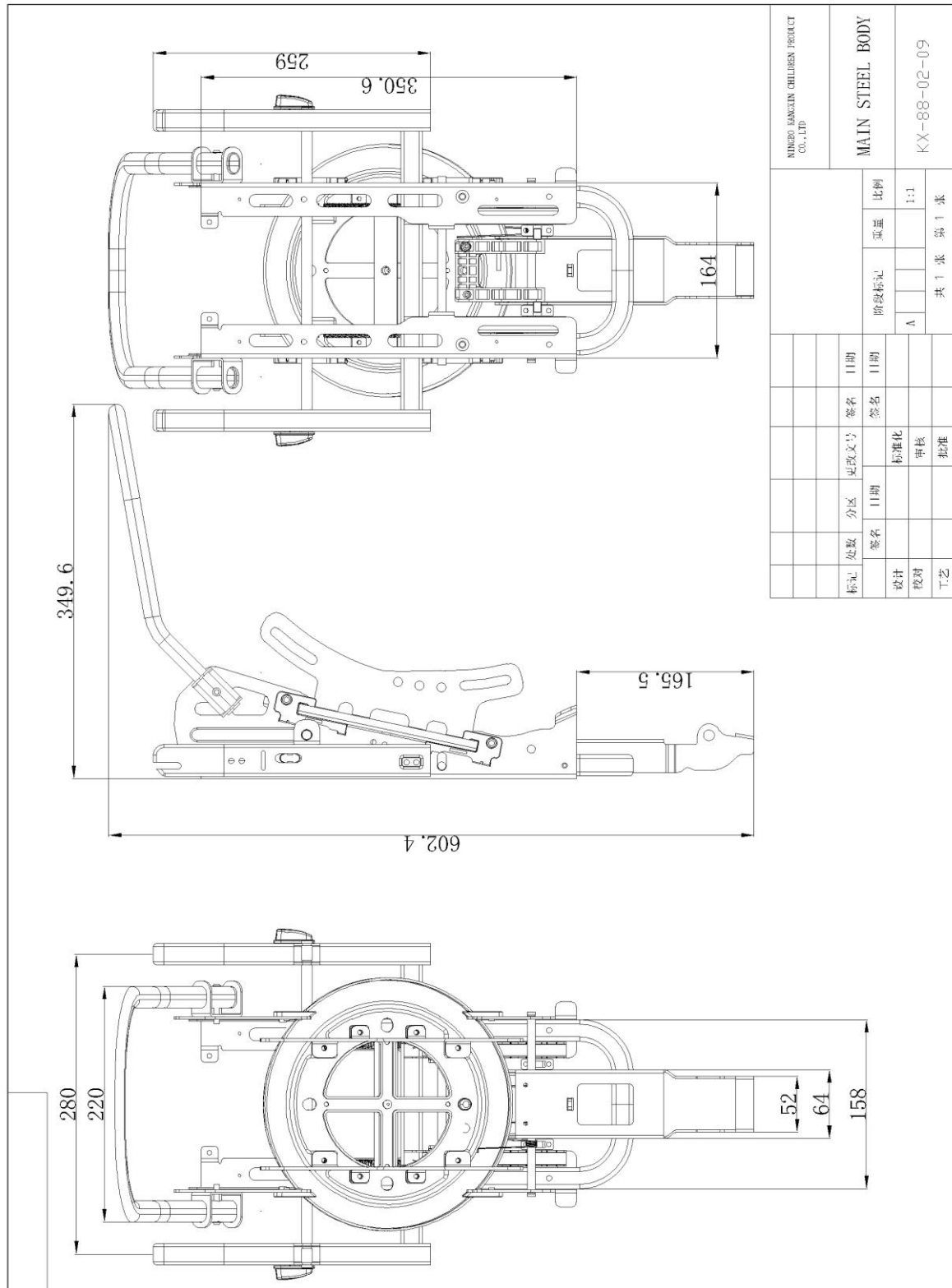


Technical drawings

Section number:4

Version: 00

Page number: 13/26

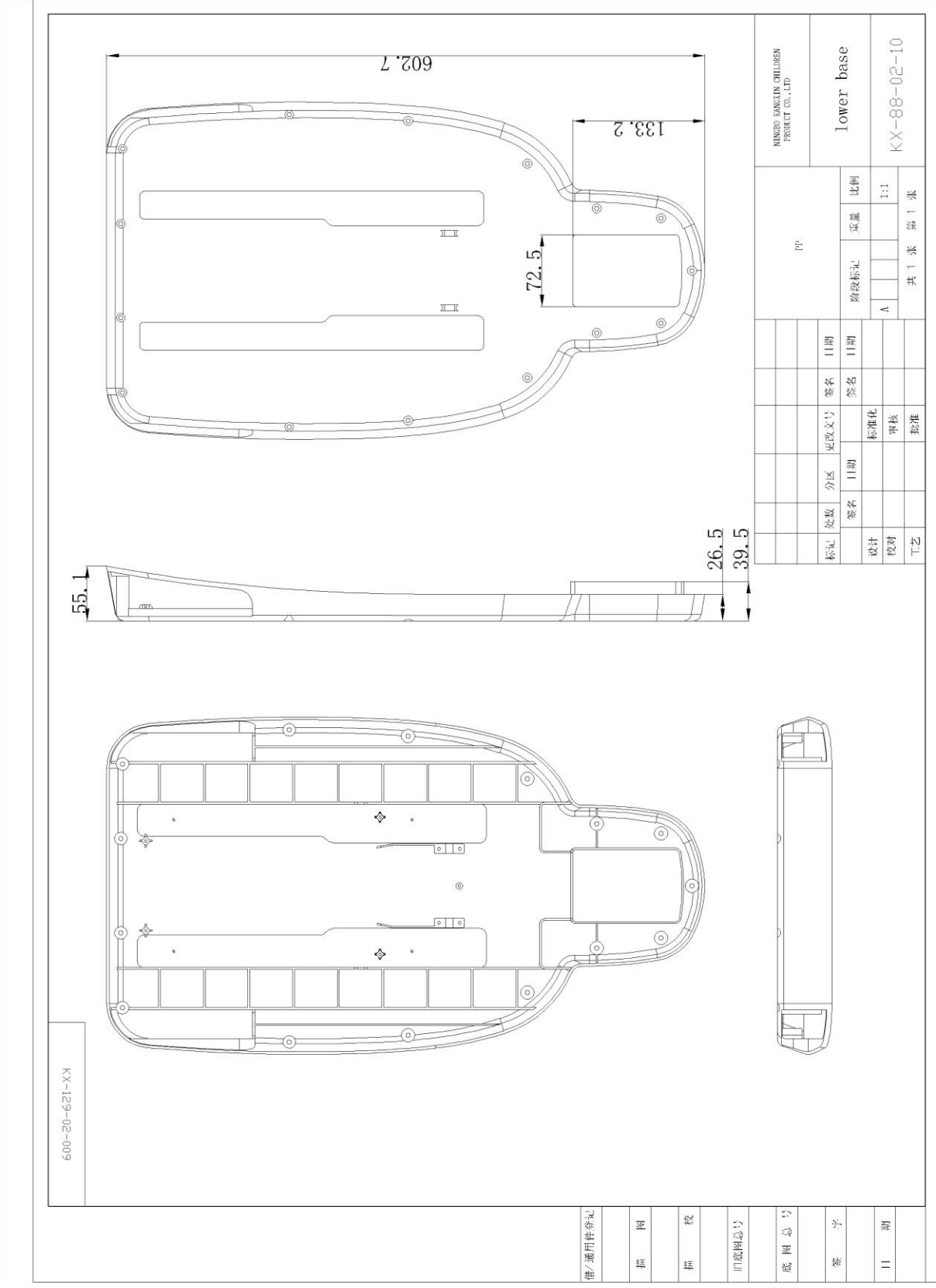


NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD		MAIN STEEL BODY		KX-88-02-09	
设计	校对	工艺	审核	批准	共 1 张 第 1 张
签名	日期	签名	日期	签名	日期
阶段标记	重量	比例			
A		1:1			

他/通用件零件	描图	描校	审核图总号	制图总号	签字	日期
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chnical drawings	Section number:4
	Version: 00
	Page number: 14/26



6.00-20-627-KX-129-02-009

NINGBO KANGXIN CHILDREN PRODUCT CO., LTD		lower base		KX-88-02-10	
图号	图名	比例	重量	阶段标记	比例
		1:1		A	1:1
共 1 张 第 1 张					
标记	处数	分区	更改文号	签名	日期
设计	校对	审核	批准	签名	日期
工艺					

准/准日期	
插图	
插图	
图号	
图号	
签字	
日期	

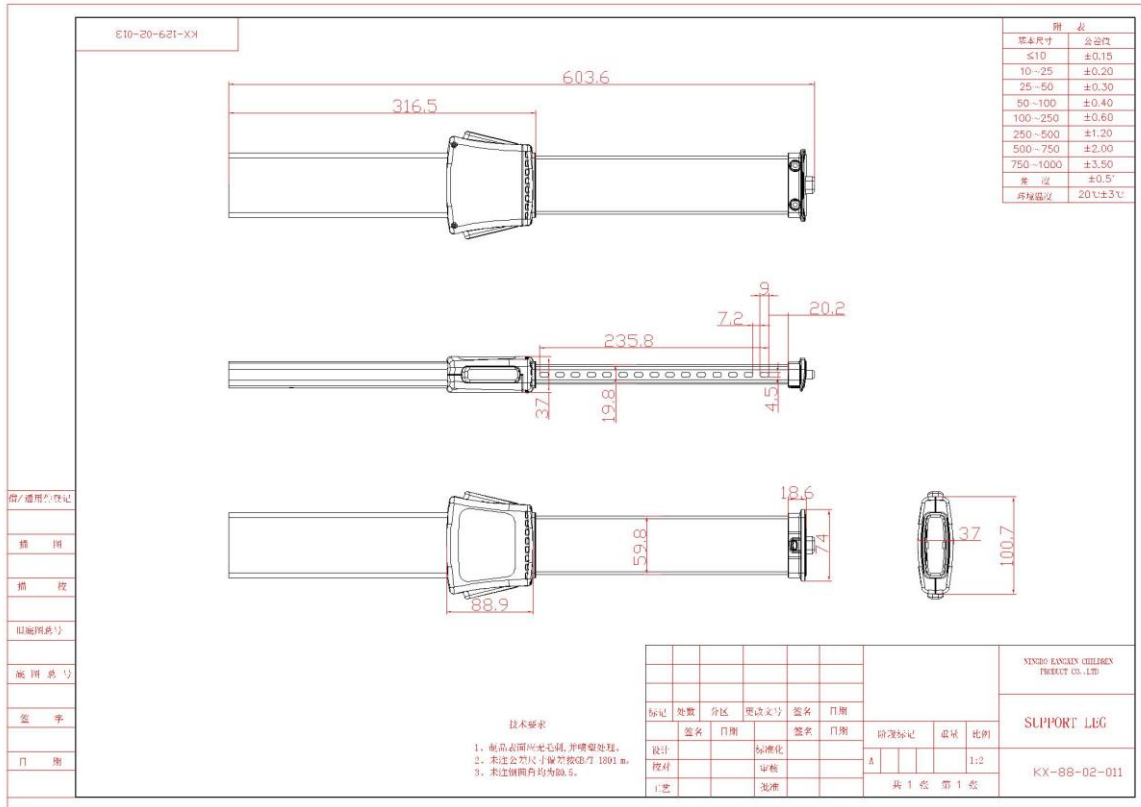
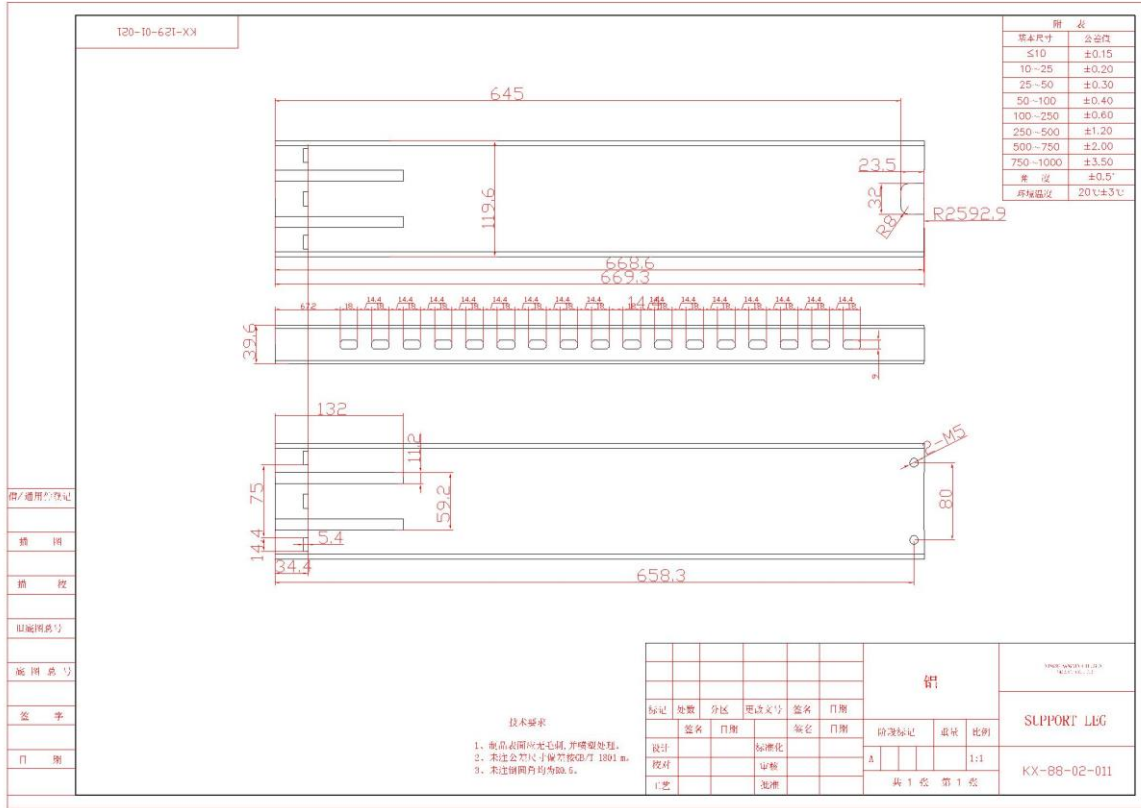


Technical drawings

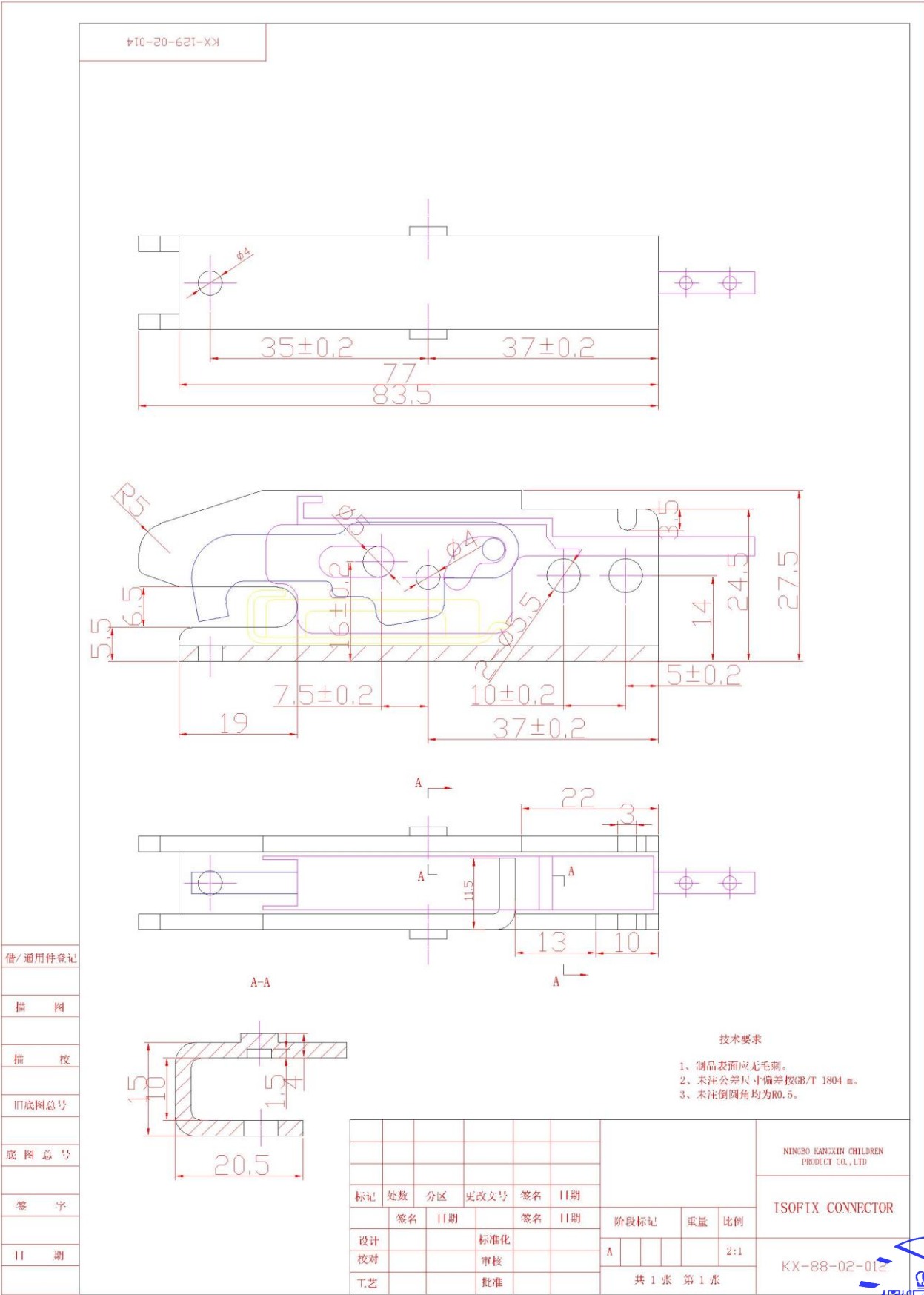
Section number:4

Version: 00

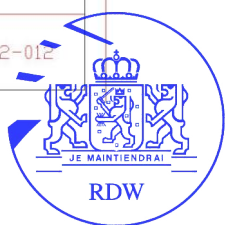
Page number: 17/26



<h1>Technical drawings</h1>	Section number:4
	Version: 00
	Page number: 18/26



借/通用件登记
描 图
描 校
旧版图总号
底图总号
签 字
日 期



<h1>Technical drawings</h1>	Section number:4
	Version: 00
	Page number: 20/26

900
75
18

NINGBO KANGXIN CHILDREN
PRODUCT CO., LTD

ADJUSTOR STRAP

KX-88-02-13

设计	日期	签名	日期	签名	日期	签名	日期	签名
校对	日期	签名	日期	签名	日期	签名	日期	签名
工艺	日期	签名	日期	签名	日期	签名	日期	签名
审核	日期	签名	日期	签名	日期	签名	日期	签名
批准	日期	签名	日期	签名	日期	签名	日期	签名

TRAP
 MATERIAL:POLYESTER-BLACK
 MODEL:KX008
 WIDTH:H:25MM+1MM
 THICKNESS:1.0 ±0.1MM
 TWILL:2STRAP

借/通用件登记	日期	签名
插图	日期	签名
描图	日期	签名
日期	日期	签名
日期	日期	签名
日期	日期	签名
日期	日期	签名

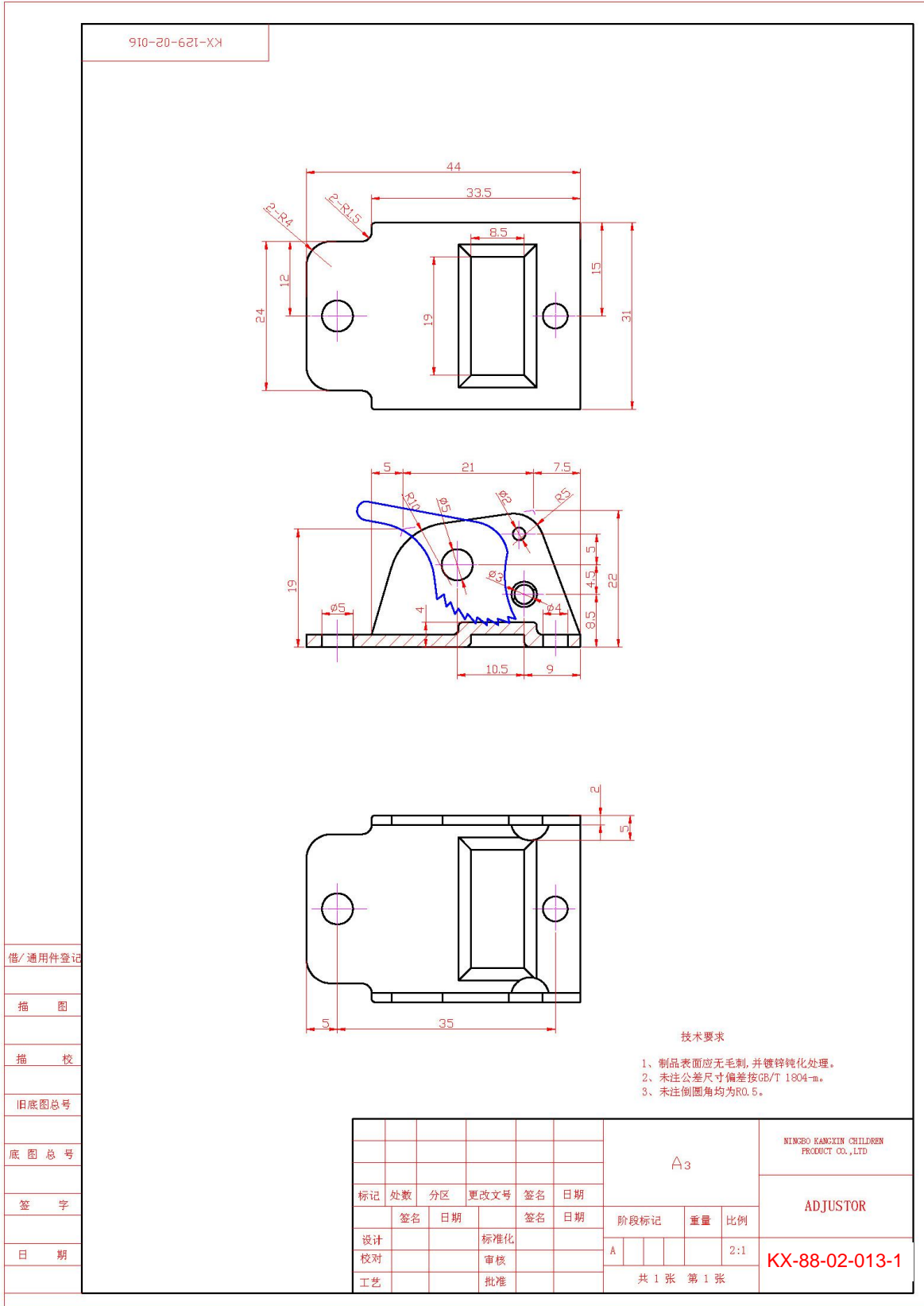


Technical drawings

Section number:4

Version: 00

Page number: 21/26



借/通用件登记

描 图

描 校

旧底图总号

底图总号

签 字

日 期

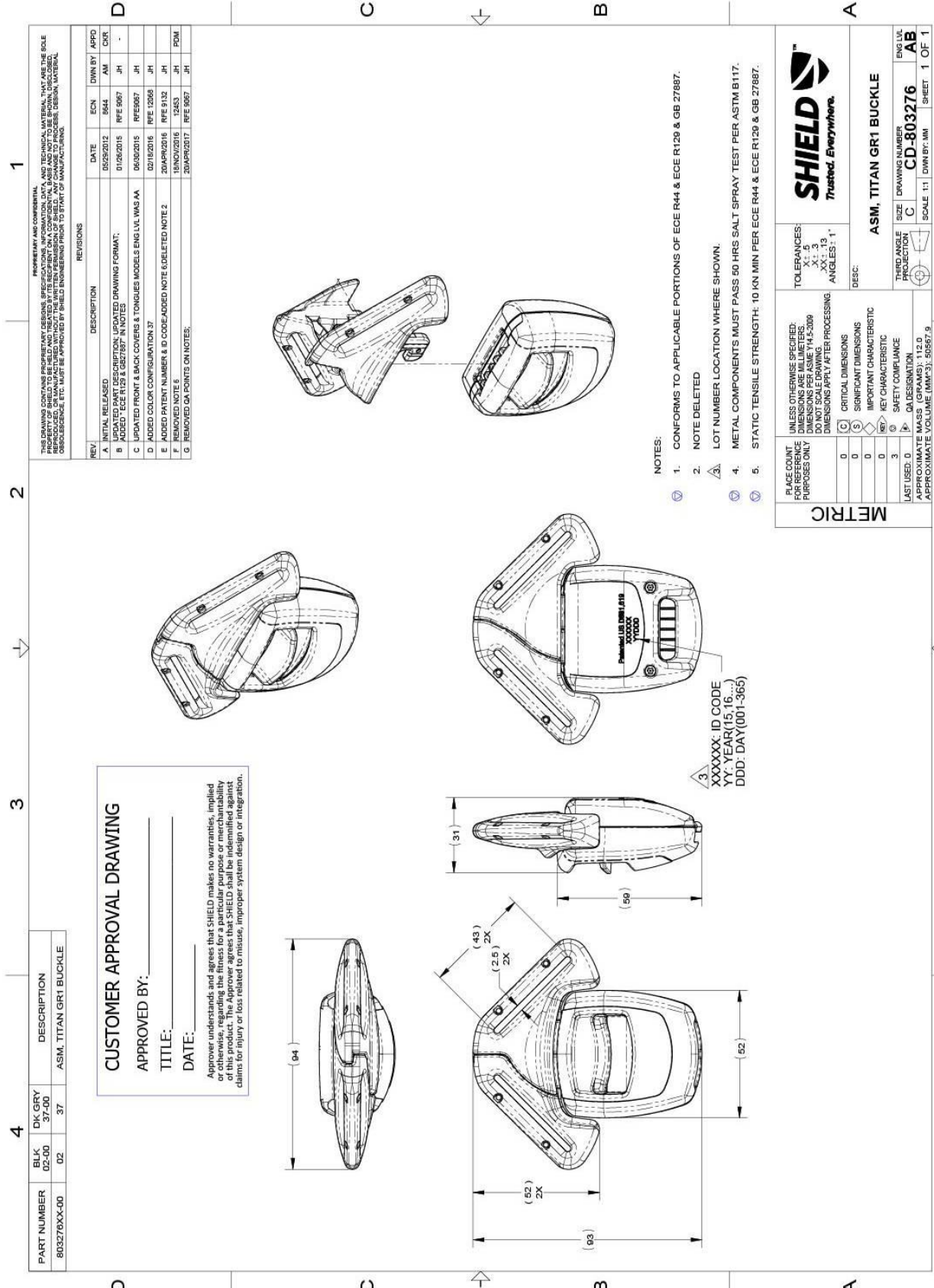


Technical drawings

Section number:4

Version: 00

Page number: 23/26



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REV.	DESCRIPTION	ECN	DATE	DWN BY	APPD
A	INITIAL RELEASED	864	05/29/2012	AM	OKR
B	UPDATED PART DESCRIPTION, UPDATED DRAWING FORMAT, ADDED "ECE R129 & GB27887" IN NOTES	RFE 9067	01/26/2015	JH	-
C	UPDATED FRONT & BACK COVERS & TONGUES MODELS ENG LVL WAS AA	RFE9067	06/02/2015	JH	-
D	ADDED COLOR CONFIGURATION 37	RFE 12068	02/16/2016	JH	-
E	ADDED PATENT NUMBER & ID CODE-ADDED NOTE 2	RFE 9132	20/APR/2016	JH	-
F	REMOVED NOTE 5	12463	15/NOV/2016	JH	POM
G	REMOVED QA POINTS ON NOTES	RFE 9067	20/APR/2017	JH	-

CUSTOMER APPROVAL DRAWING

APPROVED BY: _____

TITLE: _____

DATE: _____

Approver understands and agrees that SHIELD makes no warranties, implied or otherwise, regarding the fitness for a particular purpose or the stability of the product. SHIELD shall be held responsible for any claims for injury or loss related to misuse, improper system design or integration.

PART NUMBER	BLK	DK GRY	DESCRIPTION
803276XX-00	02	37	ASM, TITAN GRI BUCKLE

- NOTES:
- CONFORMS TO APPLICABLE PORTIONS OF ECE R44 & ECE R129 & GB 27887.
 - NOTE DELETED
 - LOT NUMBER LOCATION WHERE SHOWN.
 - METAL COMPONENTS MUST PASS 50 HRS SALT SPRAY TEST PER ASTM B117.
 - STATIC TENSILE STRENGTH: 10 KN MIN PER ECE R44 & ECE R129 & GB 27887.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS PER ASME Y14.5-2009 DO NOT SCALE DRAWING DIMENSIONS APPLY AFTER PROCESSING

PLACE COUNT FOR REFERENCE PURPOSES ONLY

0 CRITICAL DIMENSIONS

0 SIGNIFICANT DIMENSIONS

0 IMPORTANT CHARACTERISTIC

0 KEY CHARACTERISTIC

3 SAFETY COMPLIANCE

LAST USED: 0 ON DESIGNATION

APPROXIMATE MASS (GRAMS): 112.0

APPROXIMATE VOLUME (MM³): 50567.9

TOLERANCES:
X: .5
XX: .3
ANGLES: 1°

DESC: ASM, TITAN GRI BUCKLE

THIRD ANGLE PROJECTION

SIZE: C

DRAWING NUMBER: CD-803276

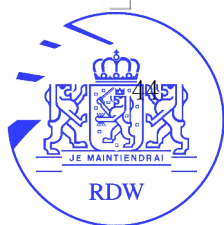
SCALE: 1:1

DWN BY: MI

SHEET: 1 OF 1

ENCL: AB

SHIELD
Trusted. Everywhere.



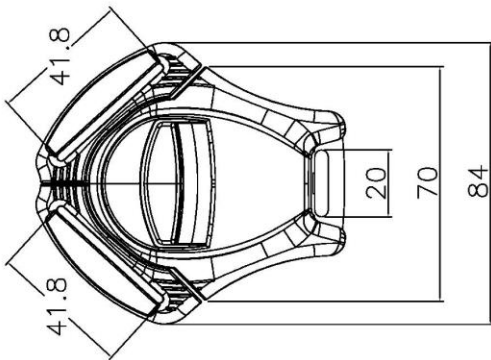
Technical drawings

Section number:4

Version: 00

Page number: 24/26

30920120_MA
Alarm buckle with alarm and green locking indicator



Ref	Code	Description	Qty
1	408001	Metallic body	1
2	306023	Metallic locking device	1
3	41602220	RH black tongue	1
4	41602120	LH black tongue	1
5	302044T_M	Green/Black push button support	1
6	302050	Red push button	1
7	306060C	Black Ejector	2
8	306070	Push button spring	1
9	306080	Ejector spring	2
10	30429320_M	Upper black cover	1
11	30409420_M	Lower black cover	1
12	PCBA01	Alarm circuit board	1

alternatively to item 2 could be used similar locking device code 407034

00	Initial set up	12-02-19	C.N
	Description of the revision	Date	Approval
	Control Plan nb	Scale	Format:
		1:1	A4
	Material	Gen. Tolerances	Drawn by
		ISO2768	Nemtanu C.
	Sup. Treatment	Date	Approved by
		12.02.19	Novara P.
Description Black buckle Group 1 with alarm and green locking indicator			
Code 30920120_MA			



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Technical drawings	Section number:4
	Version: 00
	Page number: 25/26

KX-88-02-16

借/通用件登记						
描 图						
描 校						
旧底图总号						
底 图 总 号						
签 字	标记	处数	分区	更改文号	签名	日期
		签名	日期		签名	日期
日 期	设计			标准化		
	校对			审核		
	工艺			批准		
				PU		NINGBO KANGXIN CHILDREN PRODUCT CO., LTD
				阶段标记		
				A		比例
				共 1 张		第 1 张
						HEADREST INLAY
						KX-88-02-15

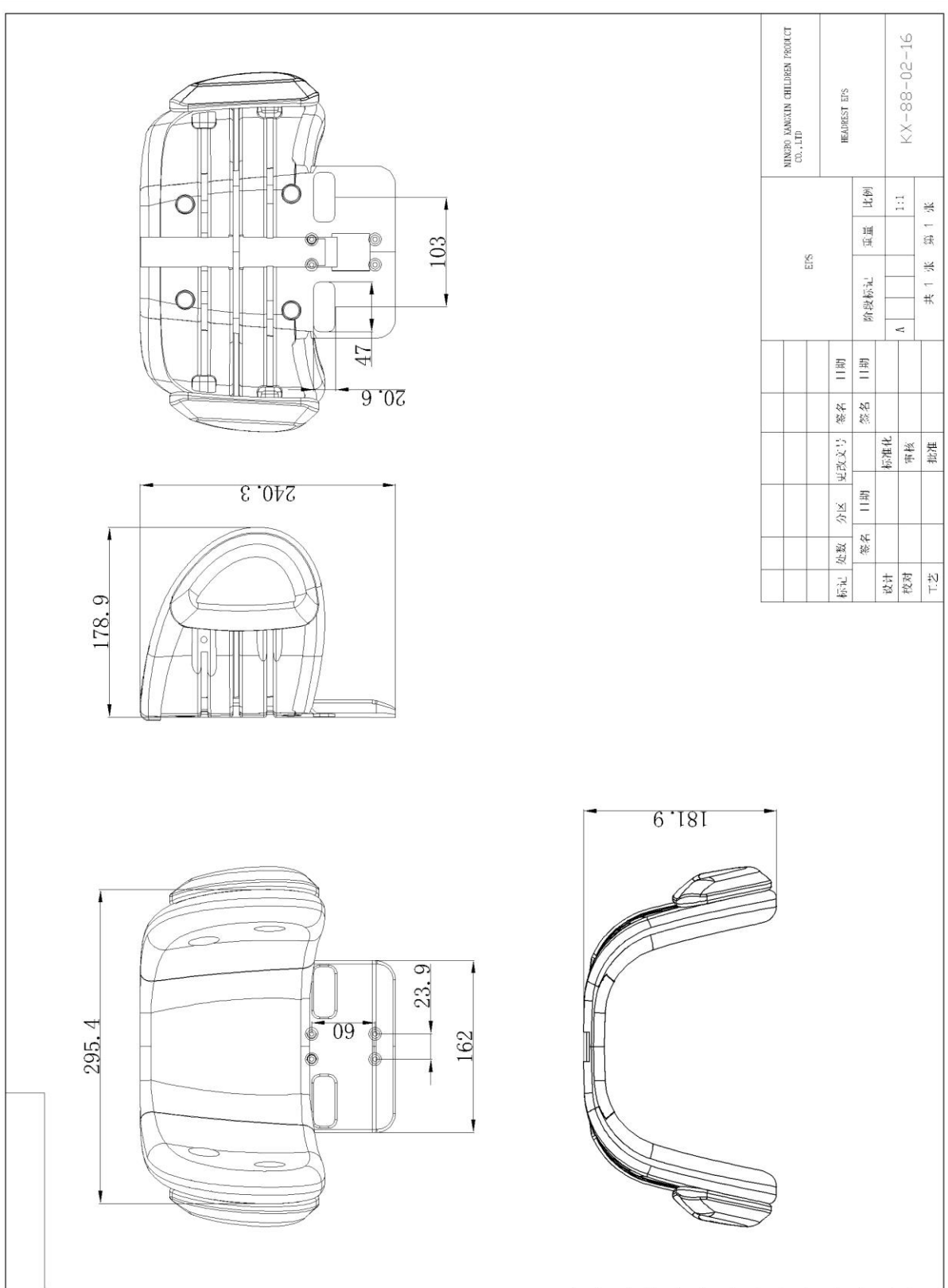


Technical drawings

Section number:4

Version: 00

Page number: 26/26



NINGBO KANGXIN CHILDREN PRODUCT CO., LTD.		HEADREST EFS		KX-88-02-16	
EFS		阶段标记	重量	比例	
		A		1:1	
共 1 张 第 1 张					
标记	处数	分区	更改文号	签名	日期
设计	校对	审核	批准		

借/通零件标记	
插图	
描述	
图例总号	
视图总号	
签字	
日期	



<h1>Technical drawings</h1>	Section number:4
	Version: 00
	Page number: 26/26

NINGBO KANGXIN CHILDREN PRODUCT CO., LTD.

backrest EPE

KX-88-02-17

EPE		阶段标记		重量	比例
		A			1:1
共 1 张 第 1 张					

标记	处数	分区	更改文号	日期	日期
设计	校核	工艺	标准	审核	批准

借/通用件符号

描 图

描 校

图 号

底 图 号

签 字

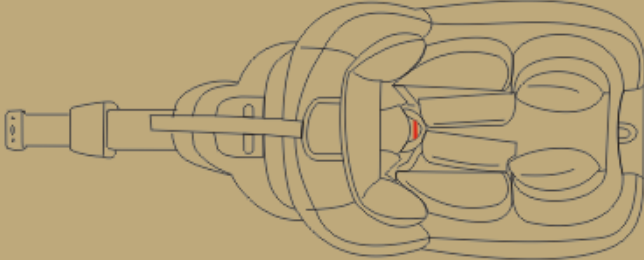
日 期



Packing detail	Section number:5
	Version: 00
	Page number: 1/1

Kissingbaby

I-size
Unversal ISOFIX
Child Restraining System
 Child height: 40-105cm
 Child weight: 18KG
 ITEM NO.: KX-88



Notice

This is an "I-Size" Child Restraint System. It is approved to Regulation No.129, for use in "I-Size compatible" vehicle seating positions as indicated by vehicle manufacturers in the vehicle users' manual.
 If in doubt, consult either the child restraint manufacturer or the retailer.

"IMPORTANT" - DO NOT USE FORWARD FACING BEFORE THE CHILD'S AGE EXCEEDS 15 months (Refer to Instructions)."

ITEM NO.: KX-88
 QTY: 1PCS
 G.W.: 14.2KG
 W.G.: 15.9KG
 C/NO.:

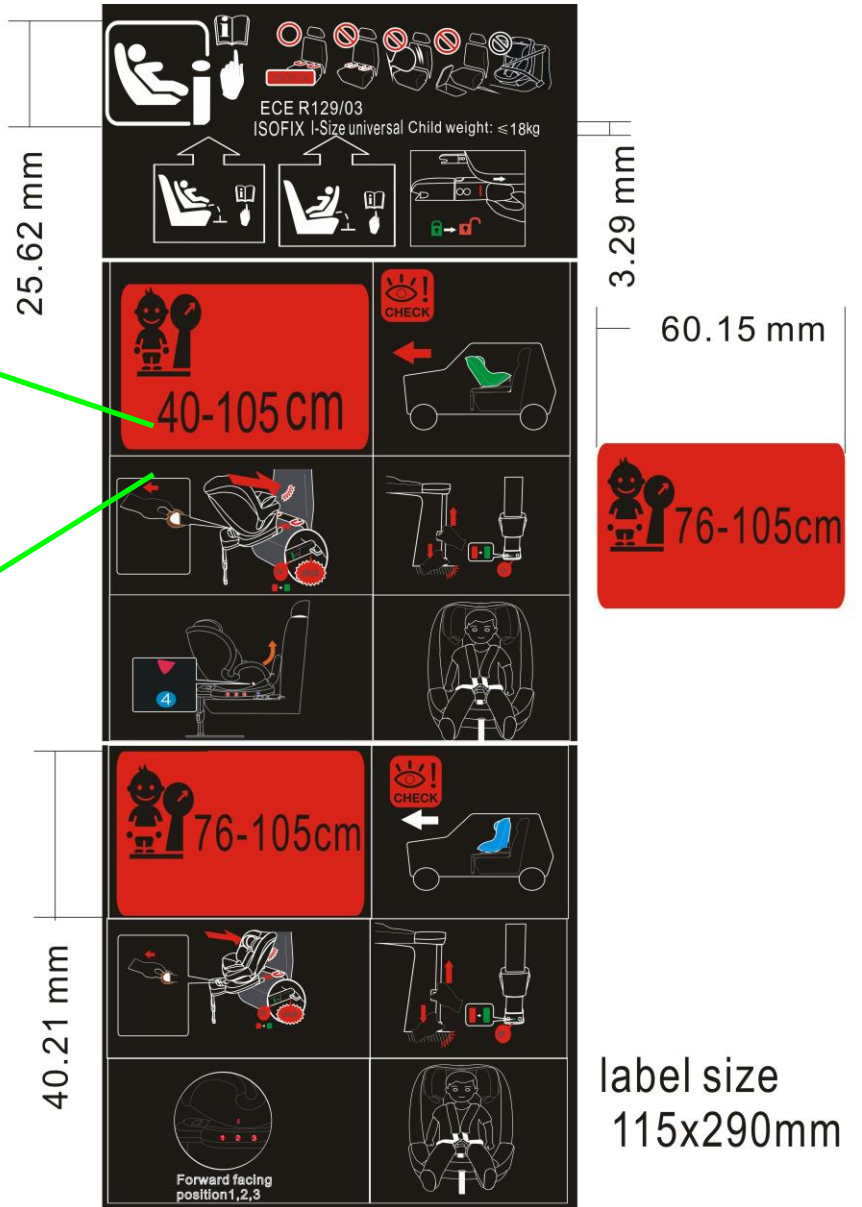
MANUFACTORY: NINGBO KANGXIN
 CHILDREN PRODUCT CO., LTD
 ADD: MEIHU VILLAGE, HENGHE
 TOWN, CIXI CITY, NINGBO, CHINA
 TEL: 0086-574-58968303

ITEM NO.: KX-88
 QTY: 1PCS
 G.W.: 14.2KG
 W.G.: 15.9KG
 C/NO.:

MANUFACTORY: NINGBO KANGXIN
 CHILDREN PRODUCT CO., LTD
 ADD: MEIHU VILLAGE, HENGHE
 TOWN, CIXI CITY, NINGBO, CHINA
 TEL: 0086-574-58968303



Label and label location	Section number:6
	Version: 00
	Page number: 1/5



Label and label location	Section number:6
	Version: 00
	Page number: 2/5



Label and label location	Section number:6
	Version: 00
	Page number: 3/5



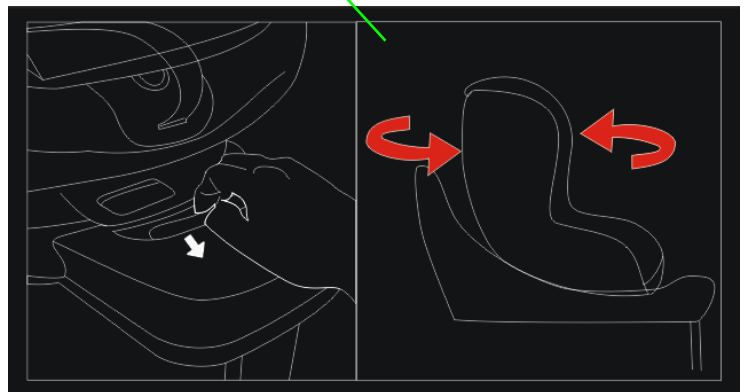
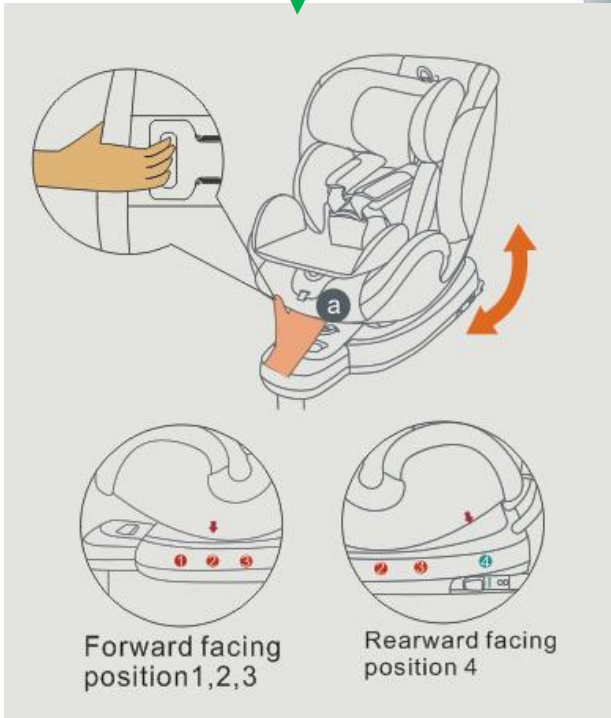
Label and label location	Section number:6
	Version: 00
	Page number: 4/5



Label and label location

Section number:6

Version: 00



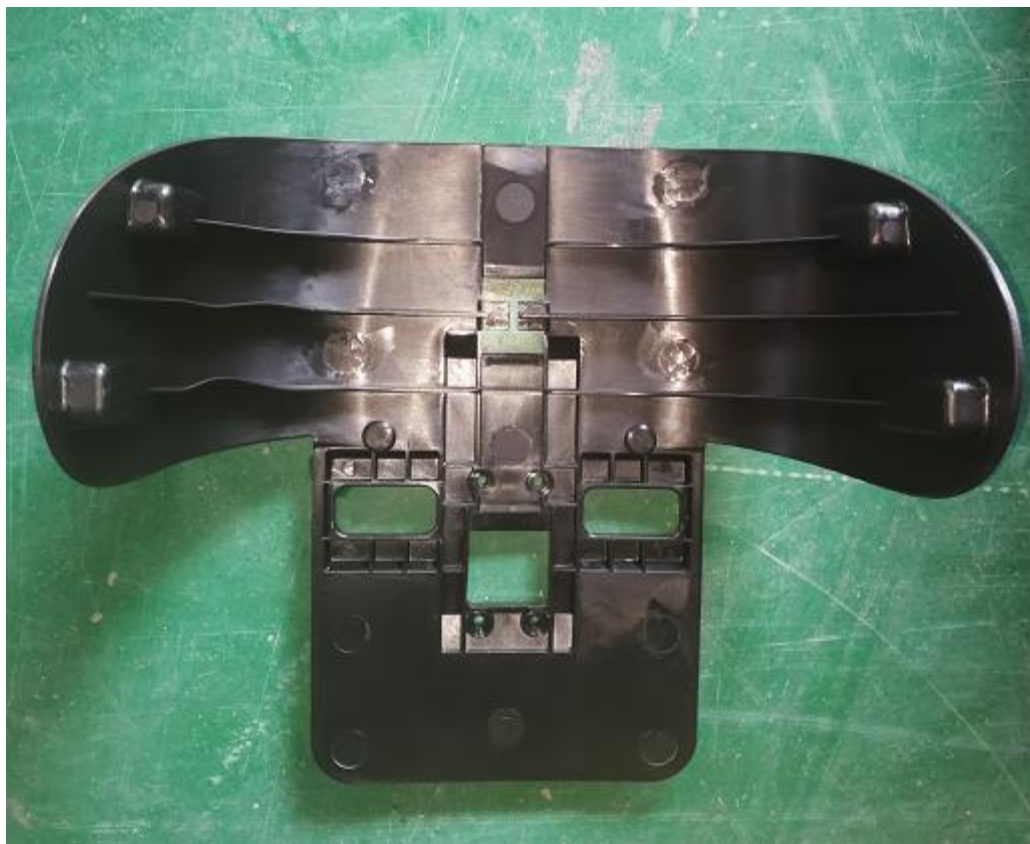
Instruction manual location	Section number:7
	Version: 00
	Page number: 1/1



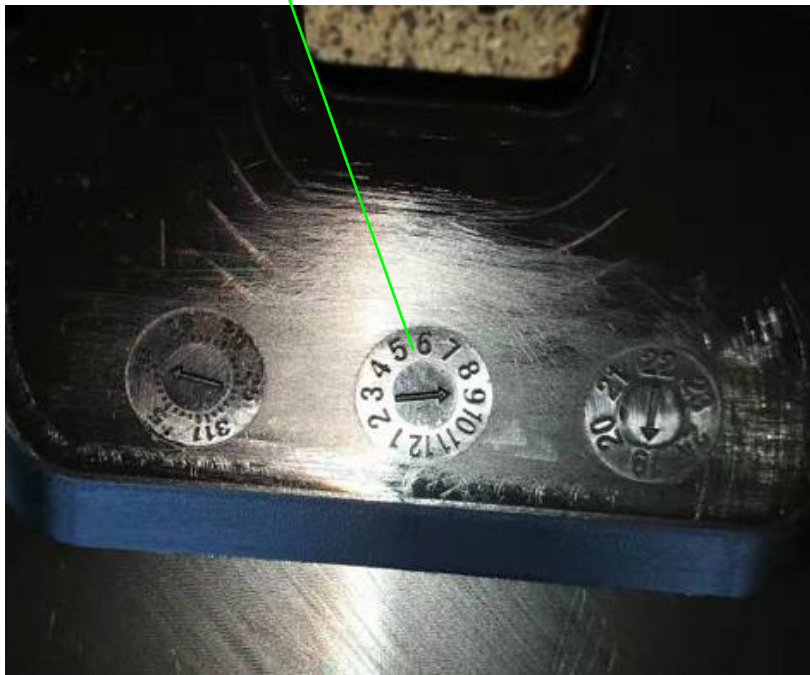
Instruction manual location



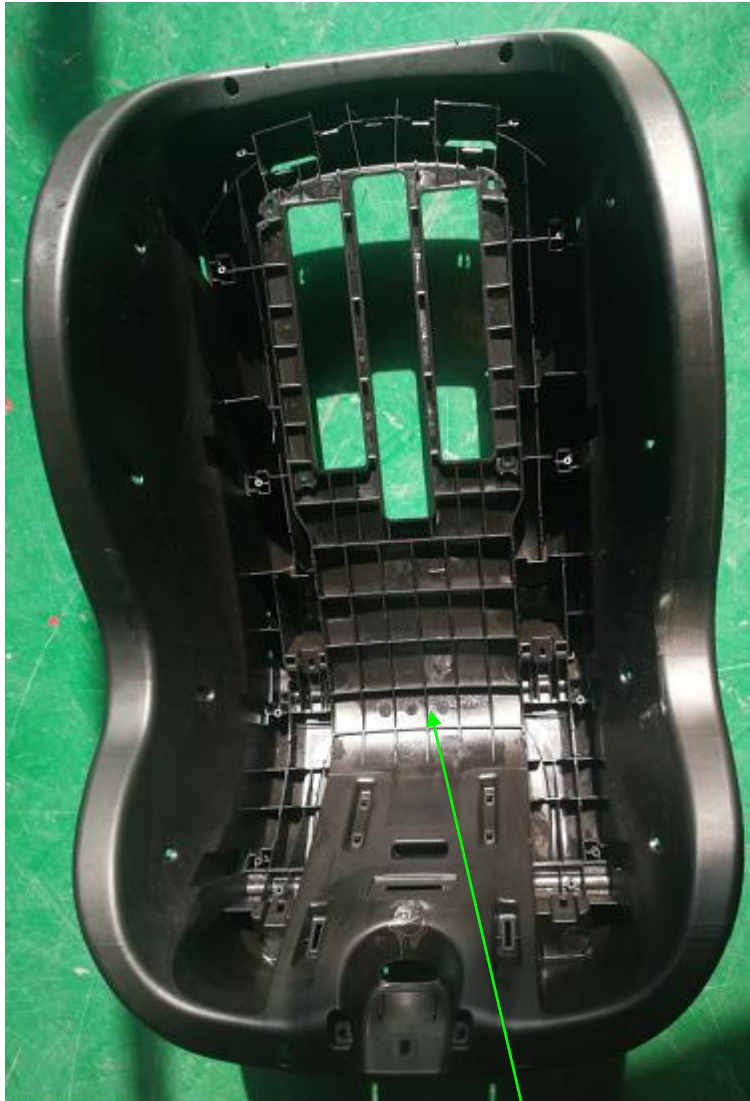
Production date location	Section number:8
	Version: 00
	Page number: 1/4



Production date location	Section number:8
	Version: 00
	Page number: 2/4



Production date location	Section number:8
	Version: 00
	Page number: 3/4



Production date location	Section number:8
	Version: 00
	Page number: 4/4



Declaration and report of Toxicity and Flammability	Section number:9
	Version: 00
	Page number: 1/7

To: RDW
Certification and Supervision Centre
Europaweg 205P.O. Box 777
2700 AT Zoetermeer
The Netherland

Date:AUG.10,2019

We: NINGBO KANGXIN CHILDREN PRODUCT CO., LTD
Address: MEIHU VILLAGE, HENGHE TOWN, CIXI, NINGBO, CHINA
Email: korben@kx-baby.cn
Tax:0086-574-58968303
Item No.: KX-88

We declare that the child restraint system made in our company: The material of toxicity and flammability conform to EN71-2 and EN71-3.

Hereby declared!

NINGBO KANGXIN CHILDREN PRODUCT CO., LTD

GENERAL MANAGER: QISUNLI



Declaration and report of Toxicity and Flammability	Section number: 9
	Version: 00
	Page number: 2/7



TEST REPORT

Report No. : EQO19080426T

Date: Aug.26.2019

Page 1 of 3

Client Name: Ningbo Kangxin children product Co.,Ltd

Address: Meihu industrial park, henghe town, Cixi city, Ningbo, China

Sample Description:

Sample Name: 1#, Black composite fabric

Sample Model No. : /

Material: /

Description: /

Supplier: /

Manufacturer: /

Arrived Date: Aug. 21. 2019

Test Period: Aug. 21. 2019 to Aug. 26. 2019

Test Conclusion:

No.	Sample No.	Request	Standard	Conclusion
1	1#	Safety of toys Part 2: Flammability	EN71-2: 2011+A1: 2014	Pass

Test result: Please see next pages

Approved by : _____

Authorized officer



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Eqo Testing and Certification Co., Ltd

NO.23, Luxi Road, Lujia Town, Kunshan, Jiangsu, China, 215331

Tel: +86 512-57878076

E-mail:KHFw@eqots.com

Website: www.eqots.com



Declaration and report of Toxicity and Flammability	Section number:9
	Version: 00
	Page number: 3/7



TEST REPORT

Report No. : EQO19080426T

Date: Aug.26.2019

Page 2 of 3

Test Result:

1. Refer to the European toy safety technical specification EN71-2-2011 + A1-2014

Flame retardant test(the test basis according to the needs of the applicant)

Clause	Test project	test results			
		1#			
4.1	General requirements	P			
4.2	Toys to be worn on the head	NA			
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA			
4.4	Toys intended to be entered by a child	NA			
4.5	Soft-filled toys	NA			

The following data:

Sample No.	Request (mm/s)	Test result(mm/s)
1#	≤30mm/s or self-extinguishing or 0	14.7

Remarks 1: P=pass NA= Not Applicable F=Fail SE=self-extinguishing

Remark:

- 1.If the sample does not catch fire after the application of flame, or if the first marker wire does not burn off after the fire, the combustion rate is 0;
- 2.If the sample is on fire and the first marking wire is burnt out, but the sample is extinguished before the second marking wire is broken, it is considered to be self-extinguishing.
- 3.If the second marker line is also burned, the time is recorded and the sample combustion rate is calculated in mm/s.



Declaration and report of Toxicity and Flammability	Section number:9
	Version: 00
	Page number: 4/7



TEST REPORT

Report No. : EQO19080426T

Date: Aug.26.2019

Page 3 of 3

Sample Pictures:



The lab is only responsible for the test result of sample in the picture

---End of Report---



Declaration and report of Toxicity and Flammability	Section number:9
	Version: 00
	Page number: 4/7



Test Report No. SHAI1820826802 Date: 26 Dec 2018 Page 1 of 3

NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD
MEIHU VILLAGE HENGHE TOWN CIXI CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : PU FOAM

SGS Job No. : SHHL1812051447IP - SH
 Style No. : KX-03
 Buyer : DOREL
 Supplier : SHUN FA
 Date of Sample Received : 18 Dec 2018
 Testing Period : 18 Dec 2018 - 26 Dec 2018
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Lead (Pb)	PASS
Entry No. 23 of Annex XVII of REACH Regulation (EC) No 1907/2006 amended by Commission Regulation (EU) No 835/2012, (EU) No 494/2011 and (EU) 2016/217 - Cadmium (Cd)	PASS
Flame retardant(s)	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Lucia Liu

Lucia Liu
Approved Signatory



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 中国·上海·徐汇区宜山路888号3号楼 邮编: 200233 TEL (86-21) 61402594 FAX (86-21) 61158899 e sgs.china@sgs.com

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NINGBO KANGXIN CHILDREN PRODUCT CO., LTD
MEIHU VILLAGE, HENGHE TOWN, CIXI, NINGBO, CHINA TEL 0086-574-58968303



Declaration and report of Toxicity and Flammability	Section number:9
	Version: 00
	Page number: 5/7



Test Report No. SHAI1820826802 Date: 26 Dec 2018 Page 2 of 3

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA18-208268.001	White foam

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Lead (Pb)

Test Method : With reference to US EPA Method 3052:1996, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001
Lead (Pb)	100	mg/kg	2	ND
Conclusion				PASS

Notes :

- (1) The maximum permissible limit is quoted from the client requirement.

Entry No. 23 of Annex XVII of REACH Regulation (EC) No 1907/2006 amended by Commission Regulation (EU) No 835/2012, (EU) No 494/2011 and (EU) 2016/217 - Cadmium (Cd)

Test Method : With reference to EN 1122: 2001, Method B, analysis was performed by AAS.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	5	ND
Conclusion				PASS

Flame retardant(s)

Test Method : With reference to US EPA Method 3550C:2007 and US EPA Method 8270D: 2014, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Tris(1,3-dichloro-2-propyl) Phosphate(TDCPP)	13674-87-8	ND	mg/kg	5	ND



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Declaration and report of Toxicity and Flammability	Section number:9
	Version: 00
	Page number: 6/7



Test Report

No. SHAI1820826802

Date: 26 Dec 2018

Page 3 of 3

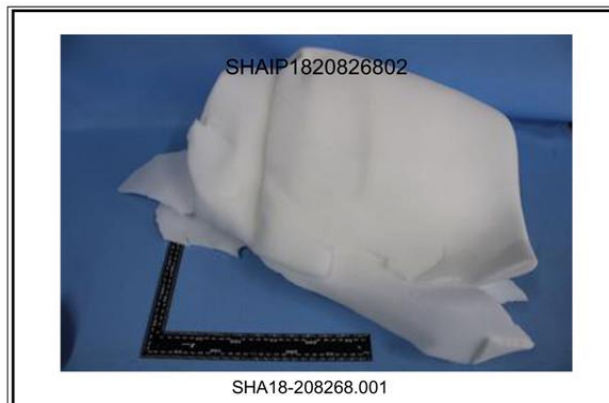
Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Tris(2-chloroethyl) Phosphate(TCEP)	115-96-8	ND	mg/kg	5	ND
Tris(1-chloro-2-propyl) Phosphate (TCPP)	13674-84-5	ND	mg/kg	5	10#
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	mg/kg	5	ND
Conclusion					FAIL

Notes :

The maximum permissible limit is quoted from the client requirement

Remark: # = Exceed the limit

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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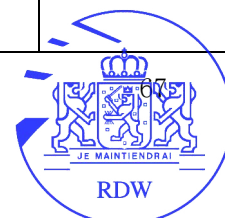
BOM

Section number:10

Version: 00

Page number: 1/2

Part No. 部件号码	Name 名称	Qty/set 件/套	Unit 单位	Size / Type 尺寸/ 规格	Material 材料	Manufactory 生产商	DRAWING NO 图号
1	HEADREST	1	PCS	291X155MM	PP	NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD	KX-88-02-001
2	IM STORAGE	1	PCS	397X182MM	PP	NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD	KX-88-02-002
3	MAIN BODY	1	PCS	678X436X182MM	PP	NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD	KX-88-02-003
4	METEL SIDE RIB	2	PCS	16X16MM TUBE	A3 STEEL	ningbo yingzhou yun long minnuo metal product. Factory	KX-88-02-004
5	LIFE + RIGHT PANEL	1	PCS	5298X435MM	PP	NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD	KX-88-02-005
6	UPPER BASE	1	PCS	355X459MM	STEEL	NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD	KX-88-02-006
7	RECLINING BUTTON	1	PCS	241X157MM	ABS	NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD	KX-88-02-007
8	WHEEL COVER	1	PCS	ø213.5	PP	NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD	KX-88-02-008
9	MAIN STEEL BODY	1	PCS	refer to the drawing	pp	ningbo yingzhou yun long minnuo metal product. Factory	KX-88-02-009
10	LOWER BASE	1	PCS	refer to the drawing	pp	NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD	KX-88-02-010
11	SUPPORT LEG	1	PCS	refer to the drawing	aluminum	ningbo yingzhou yun long minnuo metal product. Factory	KX-88-02-011
12	ISOFIX CONNECTOR	2	PCS	27.5X83M	STEEL	ningbo yingzhou yun long minnuo metal product. Factory	KX-88-02-012



BOM	Section number:10
	Version: 00
	Page number: 2/2

Part No. 部件号码	Name 名称	Qty/set 件/套	Unit 单位	Size / Type 尺寸/ 规格	Material 材料	Manufactory 生产商	DRAWING NO 图号
13	ADJUSTOR STRAP	1	PCS	refer to the drawing	POLYSTER	NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD	KX-88-02-014
13-1	ADJUSTOER	1	PCS	refer to the drawing	STEEL /aluminum	ningbo yingzhou yun long minnuo metal product. Factory	KX-88-02-014-1
14	HARNESS SYSTEM	1	PCS	refer to the drawing	POLYSTER	NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD	KX-88-02-015
14-1	BUCKLE	1	PCS	refer to the drawing	METAL&PLASTIC	SHIELD	CD-803276
				refer to the drawing	METAL&PLASTIC	holmbergs	30920120_MA
15	INFIANT INLAY	1(L)+1(R)	PCS	refer to the drawing	PU FOAM	CIXI KUANGYAN JIAYAN PACKGE FACTORY	KX-88-02-016
16	HEADREST EPS	1	PCS	refer to the drawing	EPS	CIXI KUANGYAN JIAYAN PACKGE FACTORY	KX-88-02-017
17	BACKREST EPS	2	PCS	refer to the drawing	EPS	CIXI KUANGYAN JIAYAN PACKGE FACTORY	KX-88-02-018
18	COVER	1	1SETS	as per customer's design	KINTTED FABRRIC AND SPONGE	NINGBO KANGXIN CHILDREN PRODUCT CO.,LTD	N/A



COP Clearance Documents	Section number:11
	Version:00
	Page number: 1/3

Part/Process No. 零件/过程编号	Process Name /Operation Description 过程名称/操作描述	Machine, Device, Jig, Tools For Mfg. 机器、装置、夹具、工装	Characteristics特性			Evaluation /Measurement Tech. 评价/测量技术	Sample样品		Control Method 控制方法	Reaction Plan 反应计划
			No. 编号	Product 产品	Process 过程		Size 批量	Frequency 频率		
			7	Seat Cover 布套		1.Visual check 目视检查	AQL=1.5	per batch 每批次	Seat Cover inspection specification 布套类材料检验作业规范 (NO.: HGZA.8.2.4.5)	Close off / Return to supplier 隔离 / 退货
20	Send out material 发料	Digital electronic scale 数显电子秤 Platform truck 平台车	1		FIFO 先进先出	Visual check 目视检查	100%	per batch 每批次	Material inspection specification 发料作业规范 (NO.: HGZA.7.5.5.2)	Close off / Rework 隔离 / 返工
30	Semi-finished process 成品加工 半	Electric screw driver电批 Electric hand drill手电钻	1			Appearance inspection 外观检查	100%	per batch 每批次	SOP 作业指导书	Close off / Rework 隔离 / 返工
40	Final assembly 成品组装	Special tools 专用工具	1			Appearance inspection 外观检查	100%	per batch 每批次	SOP 作业指导书	Close off / Rework 隔离 / 返工
50	Final inspection 成品检验		1			Appearance inspection 外观检查	100%	per batch 每批次	Production inspection specification 产品检验作业规范	Close off / Rework 隔离 / 返工
60	Packing 包装		1	Packaging包装 外观		Appearance inspection 外观检查	100%	per batch 每批次	Production order 生产工单 (NO.: HG/ZL.7.2-01)	Close off / Rework 隔离 / 返工
			2	Labeling包装 标识		Appearance inspection 外观检查	100%	per batch 每批次		Close off / Rework 隔离 / 返工
			3	QTY包装数量		Appearance inspection 外观检查	100%	per batch 每批次		Close off / Rework 隔离 / 返工
70	Inspection /Storing 检验/入库	Platform truck 平台车	1	Preservation of product 产品防护	Labeling 贴标签	Appearance inspection 外观检查	100%	per batch 每批次	Production order 生产工单	Close off / Rework 隔离 / 返工
80	Shipment /Dock audit 出货/检验		1	QTY数量	Packaging 包装	Appearance inspection 外观检查	100%	per batch 每批次	Production order 生产工单	Close off / Rework 隔离 / 返工
			1	Strength of Strap		8. 2. 5. 2	once	Per 5000 or annually		Close off / Return to supplier 隔离 / 退货

Part/Process No. 零件/过程编号	Process Name /Operation Description 过程名称/操作描述	Machine, Device, Jig, Tools For Mfg. 机器、装置、夹具、工装	Characteristics特性			Evaluation /Measurement Tech. 评价/测量技术	Sample样品		Control Method 控制方法	Reaction Plan 反应计划
			No. 编号	Product 产品	Process 过程		Size 批量	Frequency 频率		
			7	Seat Cover 布套		1.Visual check 目视检查	AQL=1.5	per batch 每批次	Seat Cover inspection specification 布套类材料检验作业规范 (NO.: HGZA.8.2.4.5)	Close off / Return to supplier 隔离 / 退货
20	Send out material 发料	Digital electronic scale 数显电子秤 Platform truck 平台车	1		FIFO 先进先出	Visual check 目视检查	100%	per batch 每批次	Material inspection specification 发料作业规范 (NO.: HGZA.7.5.5.2)	Close off / Rework 隔离 / 返工
30	Semi-finished process 成品加工 半	Electric screw driver电批 Electric hand drill手电钻	1			Appearance inspection 外观检查	100%	per batch 每批次	SOP 作业指导书	Close off / Rework 隔离 / 返工
40	Final assembly 成品组装	Special tools 专用工具	1			Appearance inspection 外观检查	100%	per batch 每批次	SOP 作业指导书	Close off / Rework 隔离 / 返工
50	Final inspection 成品检验		1			Appearance inspection 外观检查	100%	per batch 每批次	Production inspection specification 产品检验作业规范	Close off / Rework 隔离 / 返工
60	Packing 包装		1	Packaging包装 外观		Appearance inspection 外观检查	100%	per batch 每批次	Production order 生产工单 (NO.: HG/ZL.7.2-01)	Close off / Rework 隔离 / 返工
			2	Labeling包装 标识		Appearance inspection 外观检查	100%	per batch 每批次		Close off / Rework 隔离 / 返工
			3	QTY包装数量		Appearance inspection 外观检查	100%	per batch 每批次		Close off / Rework 隔离 / 返工
70	Inspection /Storing 检验/入库	Platform truck 平台车	1	Preservation of product 产品防护	Labeling 贴标签	Appearance inspection 外观检查	100%	per batch 每批次	Production order 生产工单	Close off / Rework 隔离 / 返工
80	Shipment /Dock audit 出货/检验		1	QTY数量	Packaging 包装	Appearance inspection 外观检查	100%	per batch 每批次	Production order 生产工单	Close off / Rework 隔离 / 返工
			1	Strength of Strap		8. 2. 5. 2	once	Per 5000 or annually		Close off / Return to supplier 隔离 / 退货



<h1>COP Clearance Documents</h1>	Section number:11
	Version:00
	Page number: 2/3

Part/Process No. 零件/过程编号	Process Name /Operation Description 过程名称/操作描述	Machine, Device, Jig, Tools For Mfg. 机器、装置、夹具、工装	Characteristics特性			Evaluation /Measurement Tech. 评价/测量技术	Sample样品		Control Method 控制方法	Reaction 反应
			No. 编号	Product 产品	Process 过程		Size 批量	Frequency 频率		
90	CoP Testing	Outsourcing lab委外实验室	2	Microslip		8.2.3	once	Per 5000 or annually		Close off / F 隔离 / :
			3	Energy absorption		7.1.2	once	Per 5000 or annually		Close off / F 隔离 / :
			4	Preconditioning buckle		7.2.1.7	once	Per 5000 or annually		Close off / R supplie 隔离 / :
			5	Dynamic		8.1.3	once	Per 5000 or annually		Close o R 隔离 / :
			6	Buckle open force under load		8.2.1.1	once	Per 5000 or annually		Close off / R supplie 隔离 / :
			7	Temperature		8.2.8	once	Per 5000 or annually		Close off / R supplie 隔离 / :

Annex 1: APPROX.PRODUCTION VOLUME:(UNITS PER YEAR)

Kind of product	Year 2020	Year 2021	Year 2022
Baby Car Seat KX-88	5000	5000	5000



<h1>COP Clearance Documents</h1>	Section number:11
	Version:00
	Page number: 3/3

Part/Process No. 零件/过程编号	Process Name /Operation Description 过程名称/操作描述	Machine, Device, Jig, Tools For Mfg. 机器、装置、夹具、工装	Characteristics特性			Evaluation /Measurement Tech. 评价/测量技术	Sample样品		Control Method 控制方法	Reaction Plan 反应计划
			No. 编号	Product 产品	Process 过程		Size 批量	Frequence 频率		

Sample size code letters

Lot size	Special inspection levels				General inspection levels		
	S-1	S-2	S-3	S-4	I	II	III
2 to 8	A	A	A	A	A	A	B
9 to 15	A	A	A	A	A	B	
16 to 25	A	A	B	B	B	C	
26 to 50	A	B	B	C	C	D	
51 to 90	B	B	C	C	C	E	
91 to 150	B	B	C	D	D	F	
151 to 280	B	C	D	E	E	G	
281 to 500	B	C	D	E	F	H	
501 to 1200	C	C	E	F	G	J	
1201 to 3200	C	D	E	G	H	K	
3201 to 10000	C	D	F	G	J	L	
10001 to 35000	C	D	F	H	K	M	
35001 to 150000	D	E	G	J	L	N	
150001 to 500000	D	E	G	J	M	P	
500001 to over	D	E	H	K	N	Q	

Annex 3:

Sampling plan ISO 2859-1:1999(Corr 2001)



Part/Process No. 零件/过程编号	Process Name /Operation Description 过程名称/操作描述	Machine, Device, Jig, Tools For Mfg. 机器、装置、夹具、工装	Characteristics特性			Evaluation /Measurement Tech. 评价/测量技术	Sample样品		Control Method 控制方法	Reaction Plan 反应计划
			No. 编号	Product 产品	Process 过程		Size 批量	Frequency 频率		

Single sampling plans for normal inspection

Sample size code letter	Sample size	Acceptance quality limit(AQL) same as ML-STD-105E II															
		0.10		0.15		0.25		0.40		0.65		1.0		1.5		2.5	
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re
A	2	↓		↓		↓		↓		↓		↓		↓		↓	
B	3	↓		↓		↓		↓		↓		↓		↓		↓	
C	5	↓		↓		↓		↓		↓		↓		↓		↓	
D	8	↓		↓		↓		↓		↓		↓		↓		↓	
E	13	↓		↓		↓		↓		↓		↓		↓		↓	
F	20	↓		↓		↓		↓		↓		↓		↓		↓	
G	32	↓		↓		↓		↓		↓		↓		↓		↓	
H	50	↓		↓		↓		↓		↓		↓		↓		↓	
J	80	↓		↓		↓		↓		↓		↓		↓		↓	
K	125	0	1	0	1	0	1	1	2	1	2	2	3	3	4	5	6
L	200	↑		↓		1	2	2	3	3	4	5	6	7	8	10	11
M	315	↓		1	2	2	3	3	4	5	6	7	8	10	11	14	15
N	500	1	2	2	3	3	4	5	6	7	8	10	11	14	15	21	22
P	800	2	3	3	4	5	6	7	8	10	11	14	15	21	22	↑	
Q	1250	3	4	5	6	7	8	10	11	14	15	21	22	↑		↑	
R	2000	5	6	7	8	10	11	14	15	21	22	↑		↑		↑	

↓ = Use the first sampling plan below the arrow. If sample size equals, or exceeds, lot size, carry out 100% inspection.
 ↑ = Use the first sampling plan below the arrow.
 Ac = Acceptance number
 Re = Rejection number

