



Kraftfahrt-Bundesamt

DE-24932 Flensburg



MITTEILUNG

ausgestellt von:

Kraftfahrt-Bundesamt

über die Erteilung einer Genehmigung für einen Schutzhelmtyp mit einem Visiertyp(en) nach der Regelung Nr. 22 einschließlich Änderung Nr. 06 Ergänzung 02

COMMUNICATION

issued by:

Kraftfahrt-Bundesamt

concerning the granting of an approval of a type of protective helmet with one visor type(s) pursuant to Regulation No. 22 including amendment No. 06 supplement 02

Genehmigungsnummer: **E1*22R06/02*301201*00**

Approval number:

1. Fabrik- oder Handelsmarke:

Trade name or mark:

ACERBIS, AIRTRIX, A-PRO, ASTONE HELMETS, bodamoto, CASSIDA, CGM, CORSA, CRN, CRNBIKER, DAWN RISE, DEXTER, EVERONE, FM FIMEZ, FRANK THOMAS, GPTEK, HECHT, HORN helmets, HX-HELMETS, JFM HELMETS, MOTOCUBO, MOTOXPRT, MYTOS MOTORCYCLES, MZONE, NATHUT, PUNTO EXTREMO, RACCEWAY, Red Line, ROCC, SEACUBE, SEC HELMET, SGT TX, SHIRO, SHOT RACE GEAR, SKA-P, STORMER, SWAY, SWIFT, TDR, TOP DRIVE, TORX HELMETS, VINI, VINZ, Vinz, VMC VENTOMATIC MOTUS COMPANY, XVX, YEMA, YEMA HELMET, ZED

2. Typ:

Type:

YM-853-1

3. Größen:

Sizes:

XS 53-54, S 55-56, M 57-58, L 59-60, XL 61

4. Name des Herstellers:

Manufacturer's name:

**LANXI YEMA MOTORCYCLE FITTINGS CO., LTD.
CN-Lanxi City Zhejiang Province**



Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Genehmigungsnummer: **E1*22R06/02*301201*00**

Approval Number:

5. Anschrift:
Address:
Siehe Punkt 4.
See item 4.
6. Name des Vertreters des Herstellers (gegebenenfalls):
Name of manufacturer's representative (if any):
Entfällt
Not applicable
7. Anschrift:
Address:
Siehe Punkt 6.
See item 6.
8. Kurze Beschreibung des Helms:
Brief description of helmet:
Siehe Anlagen
See enclosures
9. **Helm mit schützender unterer Gesichtsabdeckung (P)**
Helmet with protective lower face cover (P)
10. Visiertyp oder Visiertypen:
Type of visor or visors:
YM-853V
11. Kurze Beschreibung des Visiers oder der Visiere:
Brief description of visor(s):
Siehe Anlagen
See enclosures
12. **Helm betriebsbereit für spezifisches Zubehör (SA)/betriebsbereit für universelles Zubehör (UA)**
Helmet ready for specific accessory (SA)/ready for universal accessories (UA)
Entfällt
Not applicable
13. In der Helmhomologation enthaltenes Zubehör und Funktionalität:
Accessories included in the helmet homologation and functionality:
Sonnenblende
Sun shield



Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Genehmigungsnummer: **E1*22R06/02*301201*00**

Approval Number:

14. Wenn UA-Helm:
If UA helmet:
Entfällt
Not applicable
15. Zur Genehmigung vorgelegt am:
Submitted for approval on:
15.08.2024
16. Technischer Dienst, der die Prüfungen für die Genehmigungen durchführt:
Technical service responsible for conducting approval tests:
Technischer Dienst der TÜV Rheinland Kraftfahrt GmbH
DE-51105 Köln
17. Datum des Gutachtens des Technischen Dienstes:
Date of report issued by that service:
13.08.2024
18. Nummer des Gutachtens des Technischen Dienstes:
Number of report issued by that service:
85-R22-1174/24-00
19. Bemerkung(en):
Remark(s):
Entfällt
Not applicable
20. Die Genehmigung wird erteilt
Approval is **granted**
21. Ort: **DE-24932 Flensburg**
Place:
22. Datum: **30.08.2024**
Date:
23. Unterschrift: **Im Auftrag**
Signature:


(D. Stieglitz)





Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Genehmigungsnummer: **E1*22R06/02*301201*00**

Approval Number:

24. Folgende mit der oben erwähnten Genehmigungsnummer versehene Dokumente sind auf Anforderung erhältlich:
The following documents, bearing the approval number shown above, are available on request:

Anlagen:

Enclosures:

Gemäß Inhaltsverzeichnis

According to index



Kraftfahrt-Bundesamt

DE-24932 Flensburg

Zu: **E1*22R06/02*301201*00**

To:

Erklärung über die Einhaltung der Anforderungen hinsichtlich der Übereinstimmung der Produktion gemäß dem Übereinkommen von 1958

Statement of compliance with the conformity of the production requirements of the 1958 Agreement

1. Name des Herstellers:

Manufacturer's name:

LANXI YEMA MOTORCYCLE FITTINGS CO., LTD.

CN-Lanxi City Zhejiang Province

2. Datum der Anfangsbewertung:

Date of the initial assessment:

26.06.2020

3. Datum aller durchgeführten Überwachungstätigkeiten:

Date of any surveillance activities:

Aktenzeichen

Datum der Begehung

Genehmigungsnummer

Register number

Date of inspection

Approval number

CoP-Q:

Entfällt

Not applicable

CoP-P:

Entfällt

Not applicable

E1*22R06/02*301201*00



Kraftfahrt-Bundesamt

DE-24932 Flensburg

Zu: **E1*22R06/02*301201*00**

To:

Inhaltsverzeichnis zu den Beschreibungsunterlagen Index to the information package

Ausgabedatum: **30.08.2024**
Date of issue:

Letztes Änderungsdatum: **--**
Last date of amendment:

Nebenbestimmungen und Rechtsbehelfsbelehrung
Collateral clauses and instruction on right to appeal

Prüfbericht(e) Nr.:
Test report(s) No.:
85-R22-1174/24-00

Datum:
Date:
13.08.2024

Beschreibungsbogen Nr.:
Information document No.:
YEMA-YM-853-1-00

Datum:
Date:
12.08.2024

Liste der Änderungen:
List of modifications:
Entfällt
Not applicable

Datum:
Date:



Kraftfahrt-Bundesamt

DE-24932 Flensburg

Nummer der Genehmigung: **E1*22R06/02*301201*00**

- Anlage -

Nebenbestimmungen und Rechtsbehelfsbelehrung

Nebenbestimmungen

Diese Genehmigung wird unter der auflösenden Bedingung erteilt, dass bis zum 30.08.2025 der Prüfbericht zur Produktionsqualifizierung gemäß Nr. 9. der UN-Regelung Nr. 22 beim Kraftfahrt-Bundesamt eingereicht wird.

Jede Einrichtung, die dem genehmigten Typ entspricht, ist gemäß der angewendeten Vorschrift zu kennzeichnen.

Die Einzelerzeugnisse der reihenweisen Fertigung müssen mit den Genehmigungsunterlagen genau übereinstimmen. Änderungen an den Einzelerzeugnissen sind nur mit ausdrücklicher Zustimmung des Kraftfahrt-Bundesamtes gestattet.

Änderungen der Firmenbezeichnung, der Anschrift und der Fertigungsstätten sowie eines bei der Erteilung der Genehmigung benannten Zustellungsbevollmächtigten oder bevollmächtigten Vertreters sind dem Kraftfahrt-Bundesamt unverzüglich mitzuteilen.

Verstöße gegen diese Bestimmungen können zum Widerruf der Genehmigung führen und können überdies strafrechtlich verfolgt werden.

Die Genehmigung erlischt, wenn sie zurückgegeben oder entzogen wird, oder der genehmigte Typ den Rechtsvorschriften nicht mehr entspricht. Der Widerruf kann ausgesprochen werden, wenn die für die Erteilung und den Bestand der Genehmigung geforderten Voraussetzungen nicht mehr bestehen, wenn der Genehmigungsinhaber gegen die mit der Genehmigung verbundenen Pflichten - auch soweit sie sich aus den zu dieser Genehmigung zugeordneten besonderen Auflagen ergeben - verstößt oder wenn sich herausstellt, dass der genehmigte Typ den Erfordernissen der Verkehrssicherheit oder des Umweltschutzes nicht entspricht.

Das Kraftfahrt-Bundesamt kann jederzeit die ordnungsgemäße Ausübung der durch diese Genehmigung verliehenen Befugnisse, insbesondere die genehmigungsgerechte Fertigung sowie die Maßnahmen zur Übereinstimmung der Produktion, nachprüfen. Es kann zu diesem Zweck Proben entnehmen oder entnehmen lassen. Dem Kraftfahrt-Bundesamt und/oder seinen Beauftragten ist ungehinderter Zutritt zu Produktions- und Lagerstätten zu gewähren.

Die mit der Erteilung der Genehmigung verliehenen Befugnisse sind nicht übertragbar. Schutzrechte Dritter werden durch diese Genehmigung nicht berührt.

Rechtsbehelfsbelehrung

Gegen diese Genehmigung kann innerhalb eines Monats nach Bekanntgabe Widerspruch erhoben werden. Der Widerspruch ist beim **Kraftfahrt-Bundesamt, Fördestraße 16, DE-24944 Flensburg**, schriftlich oder zur Niederschrift einzulegen.



Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Approval No.: **E1*22R06/02*301201*00**

- Attachment -

Collateral clauses and instruction on right to appeal

Collateral clauses

This approval is issued under the dissolving condition that by the 30.08.2025 the test report of production qualification in accordance with UN Regulation No. 22, Paragraph 9, is submitted to the Kraftfahrt-Bundesamt.

All equipment which corresponds to the approved type is to be identified according to the applied regulation.

The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the Kraftfahrt-Bundesamt.

Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorised representative named when the approval was granted is to be immediately disclosed to the Kraftfahrt-Bundesamt.

Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

The Kraftfahrt-Bundesamt may check the proper exercise of the conferred authority taken from this approval at any time. In particular this means the compliant production as well as the measures for conformity of production. For this purpose samples can be taken or have taken. The employees or the representatives of the Kraftfahrt-Bundesamt may get unhindered access to the production and storage facilities.

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Kraftfahrt-Bundesamt, Fördestraße 16, DE-24944 Flensburg.**

Test Report No. 85-R22-1174/24-00

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD**TEST REPORT**

according to

UN-R 22Uniform provisions concerning the approval of protective helmets, of their visors and of their accessories for
drivers and passengers of motorcycles and mopeds

as last amended by

06 series of amendments, Suppl. 2**For the Type Approval of:**

- ☒ Helmet + Visor
☐ Helmet
☐ Visor

Approval Status

UN-approval : ---

Structure of the Test Report

Item no.

0. General information
1. Tested vehicle(s)/object(s)
2. Test record
3. Appendices
4. Statement of conformity

The Test Report shall be reproduced and published only in its entirety by the client. It may however be reproduced and published partially, but only with the written permission of the Technical Service.

Type : YM-853-1

 Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
 CO., LTD
0. General information

- 0.1. Make (trade name of the manufacturer) : ACERBIS, AIRTRIX, A-PRO, ASTONE HELMETS, bodamoto, CASSIDA, CGM, CORSA, CRN, CRNBIKER, DAWN RISE, DEXTER, EVERONE, FM FIMEZ, FRANK THOMAS, GPTEK, HECHT, HORN helmets, HX-HELMETS, JFM HELMETS, MOTOCUBO, MOTOXPERT, MYTOS MOTORCYCLES, MZONE, NATHUT, PUNTO EXTREMO, RACCEWAY, Red Line, ROCC, SEACUBE, SEC HELMET, SGTTX, SHIRO, SHOT RACE GEAR, SKA-P, STORMER, SWAY, SWIFT, TDR, TOP DRIVE, TORX HELMETS, VINI, VINZ, Vinz, VMC VENTOMATIC MOTUS COMPANY, XVX, YEMA, YEMA HELMET, ZED
- 0.2. Type : YM-853-1
- Commercial description(s) : ---
- Version(s) : ---
- 0.3. Helmet category : see appendix L, item 9
- 0.4. Name and address of the manufacturer : LANXI YEMA MOTORCYCLE FITTINGS CO., LTD
NO. 18 HUILAN ROAD,
ECONOMIC DEVELOPMENT ZONE,
LANXI CITY, ZHEJIANG PROVINCE, P.R. CHINA
- 0.5. No. of the information document : YEMA-YM-853-1-00
- Date of issue : August 12, 2024
- Date of last change : ---

1. Tested vehicle(s) / object(s)

- 1.1. Description
- 1.1.1. Object : see appendix L, item 8
- Trade name : see appendix L, item 1
- Type(s) / variant(s) / version(s) : see appendix L, item 2
- Identification number : without
- 1.1.2. Condition of vehicle(s)/object(s) : new, ~~used, pretested~~
- 1.2. Worst case configuration : No worst case assessment required (only one variant/version or no variants/versions)
- ~~There is no worst case selection required because all versions mentioned in the information folder are tested.~~
- 1.3. Remarks : without

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD**2. Test record**

2.1. Equipment for measuring and testing : The test and measurement equipment used were in compliance with the test requirements.

2.1.1. Specifications for the test site : not applicable

2.1.2. Subcontracting : not applicable

2.2. Test results

Test results referring to measurements : passed

Test results of not measurable attributes : not applicable

Alternative test methods : not applicable

2.3. Additional information : The results of the test refer exclusively to the object(s) mentioned under point 1. of this report.

Test site(s) : TÜV Rheinland (Guangdong) Ltd.
Guangzhou Helmet Laboratory
No.767 Tianyuan Road, Tianhe District,
Guangzhou 510650, P.R. China

Test date : July 19, 2024

2.4. Remarks : without

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD

3. Appendices

- Appendix 0 : List of modifications
- Appendix L : Technical description of type and Communication concerning the UN-approval
- Appendix 1 : Test minutes
- Information document : YEMA-YM-853-1-00 (20 pages)

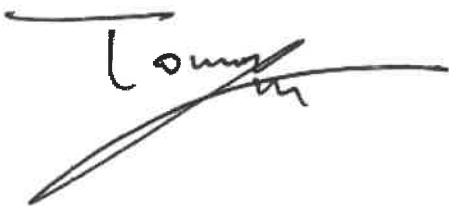
4. Statement of conformity

The Information Document listed in section 0.5., and the type described therein, comply with the requirements stated on page 1. The test results in this report refer to the vehicle(s)/object(s) described under section 1.1. With regards to the required level of performance to be achieved, the tested samples were representative for the type to be approved (see section 1.2).

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025:2017.

Engineering Centre Shanghai, August 13, 2024

TTY



M.S. Tony Yan
Technical Expert Technical Service

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD

Appendix 0

List of modifications

Correction of : -

Modification of : -

Addition of : -

Deletion of : -

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Type : YM-853-1

 Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
 CO., LTD

Communication concerning the type approval

Appendix L

- 1 Trade name or mark : ACERBIS, AIRTRIX, A-PRO, ASTONE HELMETS, bodamoto, CASSIDA, CGM, CORSA, CRN, CRNBIKER, DAWN RISE, DEXTER, EVERONE, FM FIMEZ, FRANK THOMAS, GPTEK, HECHT, HORN helmets, HX-HELMETS, JFM HELMETS, MOTOCUBO, MOTOXPERT, MYTOS MOTORCYCLES, MZONE, NATHUT, PUNTO EXTREMO, RACCEWAY, Red Line, ROCC, SEACUBE, SEC HELMET, SGTTX, SHIRO, SHOT RACE GEAR, SKA-P, STORMER, SWAY, SWIFT, TDR, TOP DRIVE, TORX HELMETS, VINI, VINZ, Vinz, VMC VENTOMATIC MOTUS COMPANY, XVX, YEMA, YEMA HELMET, ZED
- 2 Type : YM-853-1
- Commercial description(s) : ---
- Versions(s) : ---
- 3 Sizes : XS 53-54, S 55-56, M 57-58, L 59-60, XL 61
- 4 Manufacturer's name : LANXI YEMA MOTORCYCLE FITTINGS CO., LTD
- 5 Address : NO. 18 HUILAN ROAD,
ECONOMIC DEVELOPMENT ZONE,
LANXI CITY, ZHEJIANG PROVINCE, P.R. CHINA
- 6 Name of manufacturer's representative (if any) : not applicable
- 7 Address : not applicable
- 8 Brief description of helmet : The integral-faced helmet YM-853-1 is composed of ABS shell (Acrylonitrile-Butadiene-Styrene). The protective padding is made of one EPS (Expanded Poly Styrene) size liner, one EPS crown liner in the top area, two EPS side liners and one EPS chin liner. The adoption to the different head sizes is done by different thickness of the size liner, and different thickness of the comfort padding.
- The helmet is fitted with 1 visor and with 1 sun shield.
- The sun shield of YM-655S is tinted, made of Polycarbonate (PC), and a thickness of 1.6 mm.
- 9 Helmet category : With protective lower face cover (P)
- 10 Type of visor or visors : YM-853V
- 11 Brief description of visor or visors, and inner visor if any : Clear visors, made of Polycarbonate (PC) with hardened coating on the surface, and a thickness of 2.0 mm.

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD

-
- | | | |
|----|---|-------------------|
| 12 | Helmet ready for specific accessory (SA)/ready for universal accessories (UA) | : not applicable |
| 13 | Accessories included in the helmet homologation and functionality | : not applicable |
| 14 | If UA helmet | : not applicable |
| 15 | Submitted for approval on | : July 19, 2024 |
| 17 | Date of report issued by that service | : August 13, 2024 |

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Type : YM-853-1

 Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
 CO., LTD

Test minutes

Appendix 1

General Requirements for Helmets

- | | | |
|-----|--|--|
| 1 | Basic construction
(6.1) | : The helmet consists of a shell, protective padding, comfort padding and a retention system. |
| 2 | Additional construction
(6.2/ 6.2.1) | : refer Appendix L, item 8 |
| 3 | Lower face cover
(6.2.2.) | : refer Appendix L, item 9 |
| 4 | Protection areas
(6.4) | : The shell and padding of the helmets of each size cover the required areas. |
| 5 | Hearing ability and temperature
(6.5) | : The wearer's ability to hear is not dangerously affected by the helmet.

The helmet has ventilation holes in the shell to prevent overheating. |
| 6 | Outer projections
(6.6 / 6.7) | : All external projections are rounded and smooth.
All external projections ≤ 2 mm have a radius ≥ 1 mm

There are projections of the outer shell, greater than 2mm. All external projections > 2 mm have a radius ≥ 2 mm. The shear assessment was successful. |
| 7 | Inner projections
(6.8) | : No inward facing sharp edges. All internal parts are covered with padding. |
| 8 | Helmet components
(6.9) | : The components of the helmet are assembled in a way that they do not become easily detached as a result of impact. |
| 9 | Retention system | |
| 9.1 | Abrasion protection
(6.10) | : The wearer is protected from abrasion by the retention system. |
| 9.2 | General
(6.11) | : The retention system fully complies with the requirements of the regulation:

<ul style="list-style-type: none"> - Retention System is permanently attached - Chin strap is adjustable and maintains tension - Strap has a width of minimum 20 mm - No chin-cup - No rigid parts 130 mm below head form reference plane |

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD

- Total opening of retention system only with voluntary action
- Detailed instructions for use of the buckle
- If sliding bar or double D ring: red pulling flap with minimum dimensions of 10x20 mm is provided
- Buckle cannot be left in partially closed position

9.3	Chin strap (6.11.1 / 7.12.1.1)	: Under a load of 150 N the width of the chin strap is > 20 mm. The chin strap is covered with an additional comfort padding. It is not possible to open the quick-release mechanism with a ball of diameter 100 mm.
10	Detachable/movable face cover (6.12)	: Not applicable
11	Materials (6.13)	: The materials used for the helmet comply with the regulation.
12	Breakage and deformation (6.14)	: The helmet does not show breakage or deformation dangerous to the wearer after testing.
13	Peripheral vision (6.15)	: Complies with the requirements of the regulation, refer test results.
14	Sun shield	:
14.1	General (6.17.1)	: The sun shield does not affect the visor in any way. The sun shield is controlled separately from the visor.
14.2	Field of Vision (6.17.2)	: Complies with the requirements of the regulation, see also test results: - Field of Vision - Luminous transmittance - No defects impairing vision - No noticeable distortion - Spectral transmittance - Reflective power values
15	Conspicuity marking (6.18)	: The helmet is not equipped with retroreflective parts.
16	Accessories (6.19)	: not applicable
17	Information (14)	: Manufacturer-information about size and weight are located on the outer shell by adhesive label(s). Additional consumer information in accordance with the UN-R 22 is given by the owner's manual. It has to always be enclosed to the offered helmet.

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD

6.15. Peripheral vision

Helmet Size	Testhead	horizontal angle min. 210°	upwards angle min. 7°	downwards angle min. 45°
S 55-56	555	212	7	48
L 59-60	605	212	7	49

7.3. Impact-absorption-tests

All values are within the limits of the regulation, 275 g respectively 2400 HIC.

helmet size : XS 53-54
 test-head-size : 535
 anvil : Flat (Helm. 1), Kerbstone (Helm. 2)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 1 Low Temp. (-10°C)	B	187	1586
	X	179	1339
	P	191	2153
	R	176	1365
	S	52	111
Helmet 2 High Temp. (+50°C)	B	142	1062
	X	140	990
	P	148	1199
	R	147	829
	S	---	---

Type : YM-853-1

 Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
 CO., LTD

helmet size : M 57-58

test-head-size : 575

anvil : Flat (Helm. 3), Kerbstone (Helm. 4)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 3	B	215	1630
Low Temp. (-10°C)	X	229	2002
	P	185	2052
	R	168	1290
	S	99	252
Helmet 4	B	137	1010
High Temp. (+50°C)	X	142	1018
	P	158	1125
	R	126	948
	S	---	---

helmet size : XL 61

test-head-size : 605

anvil : Flat (Helm. 5), Kerbstone (Helm. 6)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 5	B	198	1688
Low Temp. (-10°C)	X	197	1498
	P	197	1878
	R	160	1126
	S	139	389
Helmet 6	B	140	1062
High Temp. (+50°C)	X	131	890
	P	146	1165
	R	143	1046
	S	---	---

Type : YM-853-1

 Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
 CO., LTD

 helmet size : XL 61
 test-head-size : 605
 anvil : Flat (Helm. 7), Kerbstone (Helm. 8), Kerbstone (Helm. 9)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 7	B	205	1603
Ambient	X	216	1731
	P	201	1989
	R	151	1070
	S	---	---
Helmet 8	B	142	1116
Ambient	X	137	960
	P	170	1261
	R	151	1072
	S	---	---
Helmet 9	B	140	1109
Artificial ageing	X	151	1035
	P	159	1293
	R	144	1099
	S	---	---

Low energy impact

All values are within the limits of the regulation, 180 g respectively 1300 HIC.

 helmet size : XL 61
 test-head-size : 605
 anvil : Flat (Helm. 10)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 10	B	165	1106
Ambient	X	156	905
	P	144	998
	R	135	607
	S	---	---

Type : YM-853-1

 Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
 CO., LTD
High energy impact

All values are within the limits of the regulation, 275 g respectively 2880 HIC.

 helmet size : XL 61
 test-head-size : 605
 anvil : Flat (Helm. 11)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 11	B	200	2006
Ambient	X	231	2139
	P	249	2794
	R	171	1517
	S	---	---

Extra point

All values are within the limits of the regulation, 275 g respectively 2400 HIC.

 helmet size : XL 61
 test-head-size : 605
 anvil : Flat (Helm. 12), Kerbstone (Helm. 13)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 12	BXR	207	1750
Ambient	RXPR	187	1708
	BXPL	210	2068
	RXL	177	1365
Helmet 13	BXL	153	1159
Ambient	RXPL	146	1173
	RXR	129	952
	BXPR	151	1207

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD

7.4.2 Test for projections and surface friction (method B).

All values are within the limits of the regulation.

Test of outer surface friction at point P of the outer shell.

Helmet size	M 57-58	
Test head size	575	
	Test with positive result at the following points of the outer shell:	
1.	Rear air vent sliding tangential at the projection	Positive

7.5 Rigidity test

All values are within the limits of the regulation.

Helmet Size	Direction	Deformation (max. 40 mm)	Permanent deformation (max. 15 mm)
XL 61	longitudinal	17	6
	transversal	10	3

7.6. Dynamic test of the retention system

All values are within the limits of the regulation.

Helmet Size	Headsize	dyn.movement (max. 35 mm)	stat.movement (max.25 mm)	Remarks
XS 53-54	535	29.5	12.4	--

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD

7.7.2. Retention (detaching) test
 [Weight hooked to the front border]

All values are within the limits of the regulation.

Helmet Size	Headsizes	angle of movement (max. 30°)	Remarks
XS 53-54	535	23	Front to rear

7.7.3./4. Retention (detaching) test
 [Falling mass]

All values are within the limits of the regulation.

Helmet Size	Headsizes	angle of movement (max. 30°)	Remarks
XS 53-54	535	15	Rear to front

7.10 Microslip-test of the chin strap

All values are within the limits of the regulation.

Movement:	< 5.0 mm	Limit ≤ 10 mm
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7.11 Test for resistance to abrasion of the chin strap

Not necessary, because the movement of the chin strap after 500 cycles was less than 5 mm.

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD

7.12 Tests for retention systems relying on quick-release mechanisms

All values are within the limits of the regulation.

Operation force of the automatic buckle ≤ 30 N (Measured at static load of 150 N)

Resistance of the automatic buckle

The load of 2000 N at the automatic buckle made no fracture or disengage. After the test the automatic buckle was still be capable of operation.

7.13. Oblique impact test method of measuring rotational acceleration

All values are within the limits of the regulation, 10400 rad/s² respectively BrIC 0,78.

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Rotation [rad/s ²]	BrIC	Remark
605	AMB	45°	FLR	XL 61	1902	0.35	--
605	AMB	45°	Rear	XL 61	1629	0.33	--
605	AMB	45°	LL	XL 61	2244	0.28	--
605	AMB	45°	Front	XL 61	1595	0.31	--
605	AMB	45°	RLR	XL 61	2624	0.40	--

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD

7.8 Visor tests (of visor type YM-853V)

All values are within the limits of the regulation.

Mechanical characteristics [7.8.2.1.]

Helmet size	XL
Conditioning of the visor	Low temp. (-10°C)
no penetration, no sharp splinter	

Mechanical characteristics [High Speed particle test 7.8.2.3.]

Impact speed: 60 m/s, conditioning +50°C and -10°C
Results: no fracture, no deformation

Refractive powers

	Spherical effect [m ⁻¹]	Astigmatic effect [m ⁻¹]	Horizontal Base [cm/m]		Vertical Base [cm/m]
			Out	In	
Limits	≤ ±0.12	≤ 0.12	≤ 1.00	≤ 0.25	≤ 0.25
Visor test piece 1	-0.01	0.08	0.24	--	0.05
Visor test piece 2	-0.01	0.07	0.26	--	0.05
Visor test piece 3	-0.02	0.06	0.25	--	0.05

Type : YM-853-1

Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD

Optical qualities and scratch resistance

Light diffusion before abrasion test ($\leq 0,65 \text{ cd/m}^2/\text{l}$)	Light diffusion after abrasion test ($\leq 5,0 \text{ cd/m}^2/\text{l}$)	Spectral transmittance ($\geq 0,2\tau_v$)
0.08	2.66	0.91
0.05	2.96	0.90
0.11	3.07	0.91

Luminous transmittance / road traffic sign and signals

Luminous transmittance τ_v (D65) ($\geq 0,8$) (~~daytime : $\geq 0,35$~~)	$Q_{\text{Red}} \geq 0,8$	$Q_{\text{Yellow}} \geq 0,6$	$Q_{\text{green}} \geq 0,6$	$Q_{\text{blue}} \geq 0,6$
0.92	Pass	Pass	Pass	Pass
0.92	Pass	Pass	Pass	Pass
0.92	Pass	Pass	Pass	Pass

7.9. Sun shield tests of YM-655S

All values are within the limits of the regulation.

Luminous transmittance [6.17.2.2.] / road traffic sign and signals [6.17.2.4.]

Type : YM-853-1

 Manufacturer : LANXI YEMA MOTORCYCLE FITTINGS
 CO., LTD

Luminous transmittance τ_v (D65) ($\geq 0,8$) (daytime : $\geq 0,35$; Sun shield: $\geq 0,20$)	$Q_{Red} \geq 0,8$	$Q_{Yellow} \geq 0,6$	$Q_{green} \geq 0,6$	$Q_{blue} \geq 0,6$
0.35	Pass	Pass	Pass	Pass
0.36	Pass	Pass	Pass	Pass
0.36	Pass	Pass	Pass	Pass

Spectral transmittance ($\geq 0,2\tau_v$) [6.17.2.5]

0.287
0.291
0.291

Refractive powers

Spherical effect [m^{-1}]	Astigmatic effect [m^{-1}]	Prismatic Diff. Effect [cm/m]		
		horizontal base		vertical base
		outside	inside	
$\leq \pm 0.12$	≤ 0.12	≤ 1.00	≤ 0.25	≤ 0.25
-0.02	0.09	0.17	--	0.05
-0.03	0.08	0.18	--	0.06
-0.02	0.07	0.18	--	0.06

LANXI YEMA MOTORCYCLE FITTINGS CO., LTD

Information folder No. YEMA-YM-853-1-00

Application date: August 12, 2024

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Type YM-853-1

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LANXI YEMA MOTORCYCLE FITTINGS CO., LTD

Information folder No. YEMA-YM-853-1-00

Application date: August 12, 2024

INFORMATION DOCUMENT FOR TYPE-APPROVAL OF PROTECTIVE HELMETS AND/OR¹ OF THEIR VISORS AND/OR¹ OF THEIR ACCESSORIES FOR DRIVERS AND PASSENGERS OF MOTOR CYCLES AND MOPEDS

1. Make (trade name or mark of the manufacturer) : ACERBIS, AIRTRIX, A-PRO, ASTONE HELMETS, bodamoto, CASSIDA, CGM, CORSA, CRN, CRNBIKER, DAWN RISE, DEXTER, EVERONE, FM FIMEZ, FRANK THOMAS, GPTEK, HECHT, HORN helmets, HX-HELMETS, JFM HELMETS, MOTOCUBO, MOTOXPRT, MYTOS MOTORCYCLES, MZONE, NATHUT, PUNTO EXTREMO, RACCEWAY, Red Line, ROCC, SEACUBE, SEC HELMET, SGTTX, SHIRO, SHOT RACE GEAR, SKA-P, STORMER, SWAY, SWIFT, TDR, TOP DRIVE, TORX HELMETS, VINI, VINZ, Vinz, VMC VENTOMATIC MOTUS COMPANY, XVX, YEMA, YEMA HELMET, ZED
2. Type : YM-853-1
Commercial description(s) : ---
Version(s) : ---
3. Sizes : XS 53-54, S 55-56, M 57-58, L 59-60, XL 61
4. Name of the manufacturer : LANXI YEMA MOTORCYCLE FITTINGS CO., LTD
5. Address of the manufacturer : NO. 18 HUILAN ROAD,
ECONOMIC DEVELOPMENT ZONE,
LANXI CITY, ZHEJIANG PROVINCE,
P.R. CHINA
6. Name of the manufacturer's representative : Not applicable
7. Address of the manufacturer's representative : Not applicable

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LANXI YEMA MOTORCYCLE FITTINGS CO., LTD

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Brief description of the helmet

and/or¹

Protective helmet equipped with visor for drivers and passengers of mopeds and motorcycles, and with the tinted sun shield of YM-655S, made of Polycarbonat (PC), and a thickness of 1.6 mm.

Brief description of visor, and inner visor if any

Clear visors, made of Polycarbonat (PC) with hardened coating on the surface, and a thickness of 2.0 mm, used for helmet with lower face cover for drivers and passengers of motorcycles and mopeds.

NOTE:

¹ strikethrough where not applicable

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LANXI YEMA MOTORCYCLE FITTINGS CO., LTD

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ADDITIONAL INFORMATION

Helmet ~~without lower face cover (J)~~ / with
protective lower face cover (P) / ~~with non~~
~~protective lower face cover (NP)~~

Type of visor or visors : YM-853V

Types of helmet to which the visor may be fitted : YM-853-1

Helmet ready for specific accessory (SA)/ready for universal accessories (UA) : Not applicable

Accessories included in the helmet homologation and functionality : Not applicable

If UA helmet : Not applicable

Name and address of assembly plant : LANXI YEMA MOTORCYCLE FITTINGS
CO., LTD
NO. 18 HUILAN ROAD,
ECONOMIC DEVELOPMENT ZONE,
LANXI CITY, ZHEJIANG PROVINCE,
P.R. CHINA

Applicable regulation : UN-Reg. No. 22, 06 series of amendments,
Suppl. 2

NOTE:

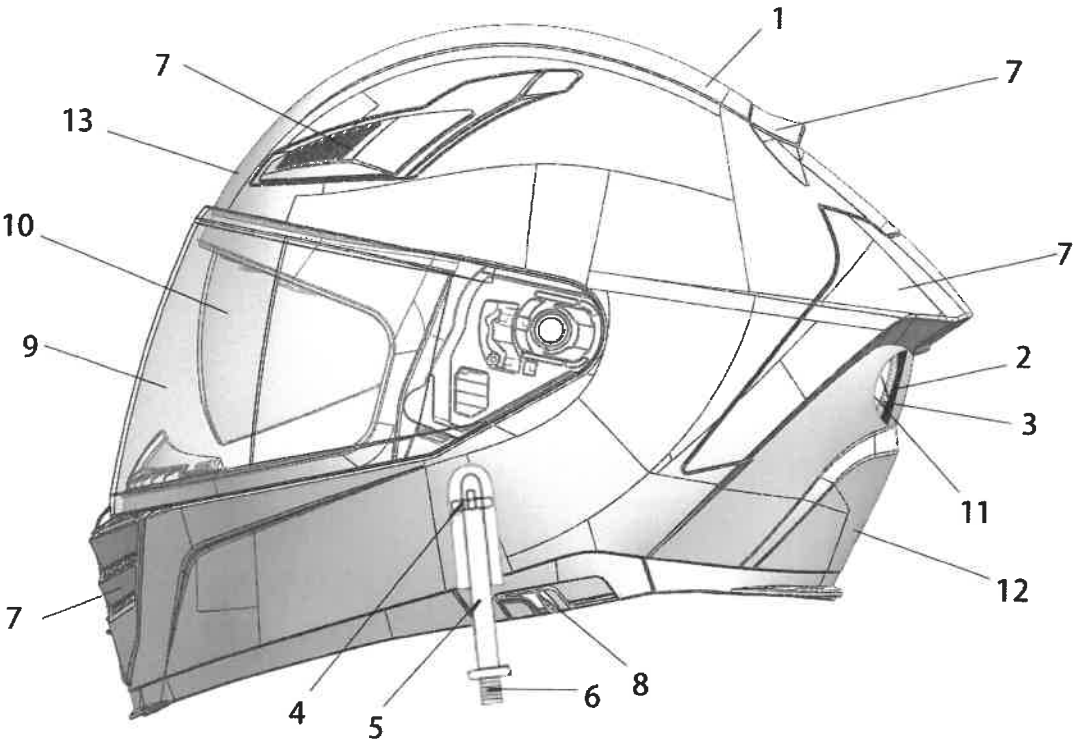
¹ strikethrough where not applicable

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DRW.	YM-853-1-01	Assembly Drawing
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Part No.	Subject or name	Material
1	Outer shell	ABS
2	Protective padding	EPS
3	Comfort padding	Fabric
4	Triangle iron	Stainless steel
5	Chin Strap	Nylon
6	Buckle	Iron & plastic
7	Ventilations	PC
8	Ratchet system	POM
9	Visor	PC
10	Sun shield	PC
11	Production Year label	Cloth, sewn on the lining
12	Size and Weight label	PVC
13	Trademark	Paint
		Material list of parts

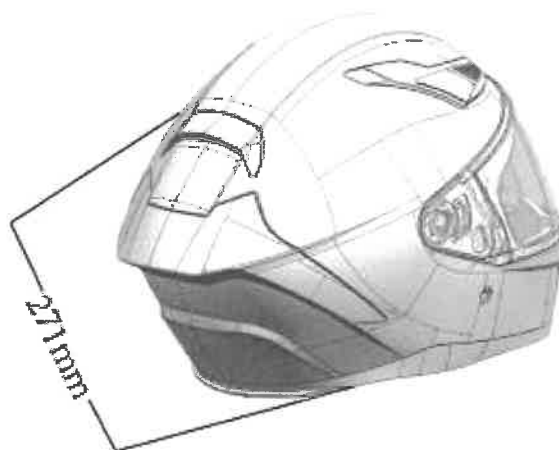
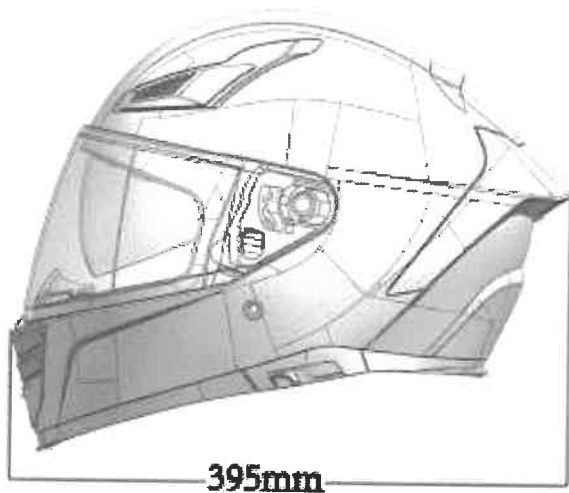
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XS-XL



DRW.

YM-853-1-02

**Helmet section view
(for SIZES XS-XL)**

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Impact absorption material thickness in millimeter, SHELL					
Size	Section B-Point	Section P-Point	Section R-Point	Section X-Point	Lower Face cover
XS	3.5	3.5	3.5	3.5	3.0
S	3.5	3.5	3.5	3.5	3.0
M	3.5	3.5	3.5	3.5	3.0
L	3.5	3.5	3.5	3.5	3.0
XL	3.5	3.5	3.5	3.5	3.0

Impact absorption material thickness in millimeter, LINER					
Size	Section B-Point	Section P-Point	Section R-Point	Section X-Point	Section S-Point
XS	38	42	50	45	15
S	38	42	50	45	15
M	34	42	40	39	15
L	32	42	33	36	15
XL	32	42	33	36	15

Impact absorption material thickness in millimeter, LINING					
Size	Section B-Point	Section P-Point	Section R-Point	Section X-Point	Side Part Lining
XS	12	14	12	12	12
S	10	14	10	10	10
M	12	14	12	12	12
L	10	14	10	10	10
XL	8	14	8	8	8

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LANXI YEMA MOTORCYCLE FITTINGS CO., LTD

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Dimension and weight

1. Dimension of the shell:

SIZE	Length (mm)	Width (mm)	Height (mm)
XS-XL	395	267	271

2. Total weight of the helmet:

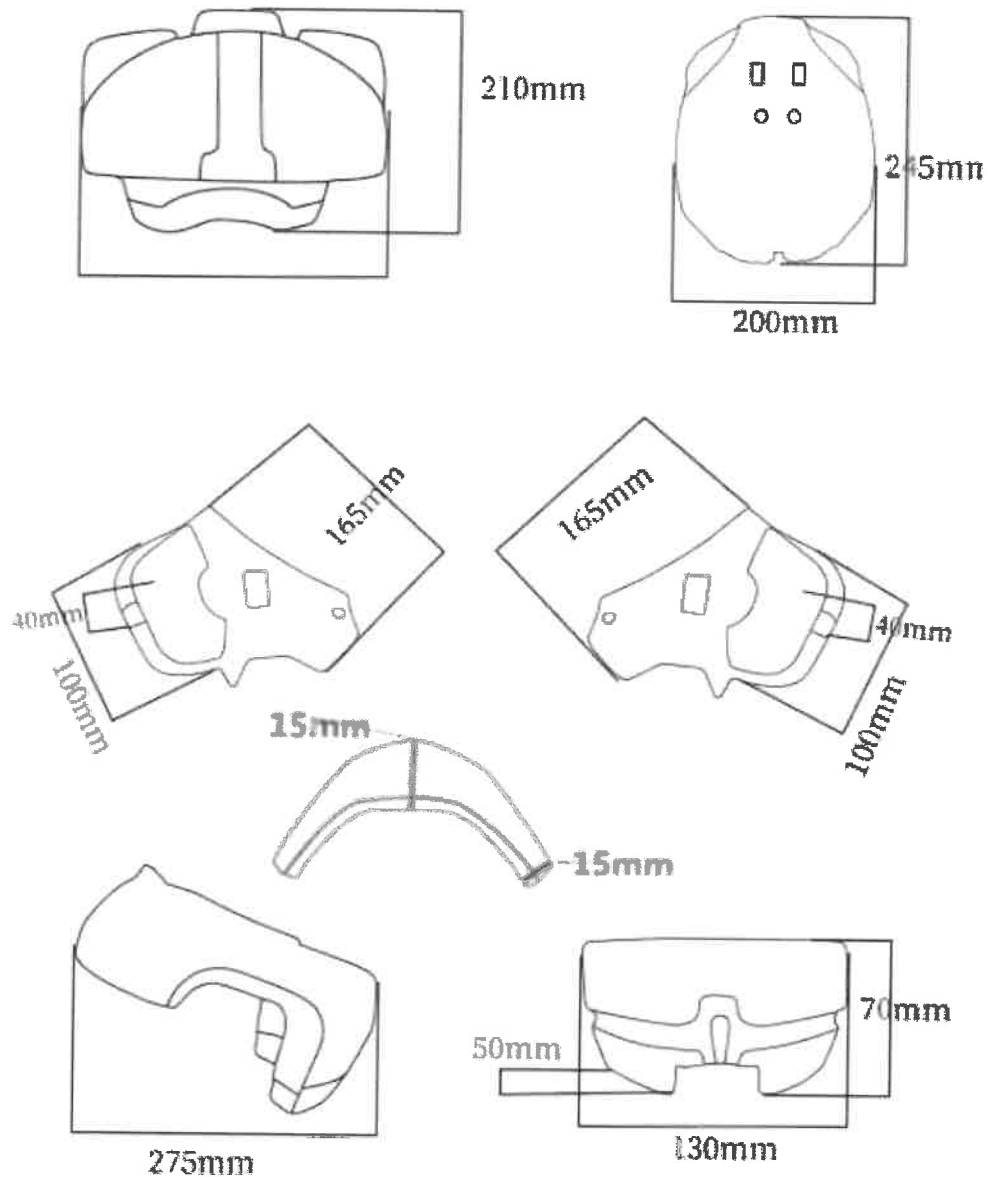
Size	Weight (g)	Tolerance (g)
XS	1650	± 50
S	1650	± 50
M	1650	± 50
L	1650	± 50
XL	1650	± 50

3. Specific gravity of the impact absorption liner

Size	Specific gravity of size liner (kg/m ³)	Specific gravity of side liner (kg/m ³)	Specific gravity of crown liner (kg/m ³)	Specific gravity of chin liner (kg/m ³)
XS	40	45	20	60
S	40	45	20	60
M	45	50	20	60
L	55	65	20	60
XL	55	65	20	60

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XS-S



DRW.	YM-853-1-03	EPS details (for SIZES XS-S)
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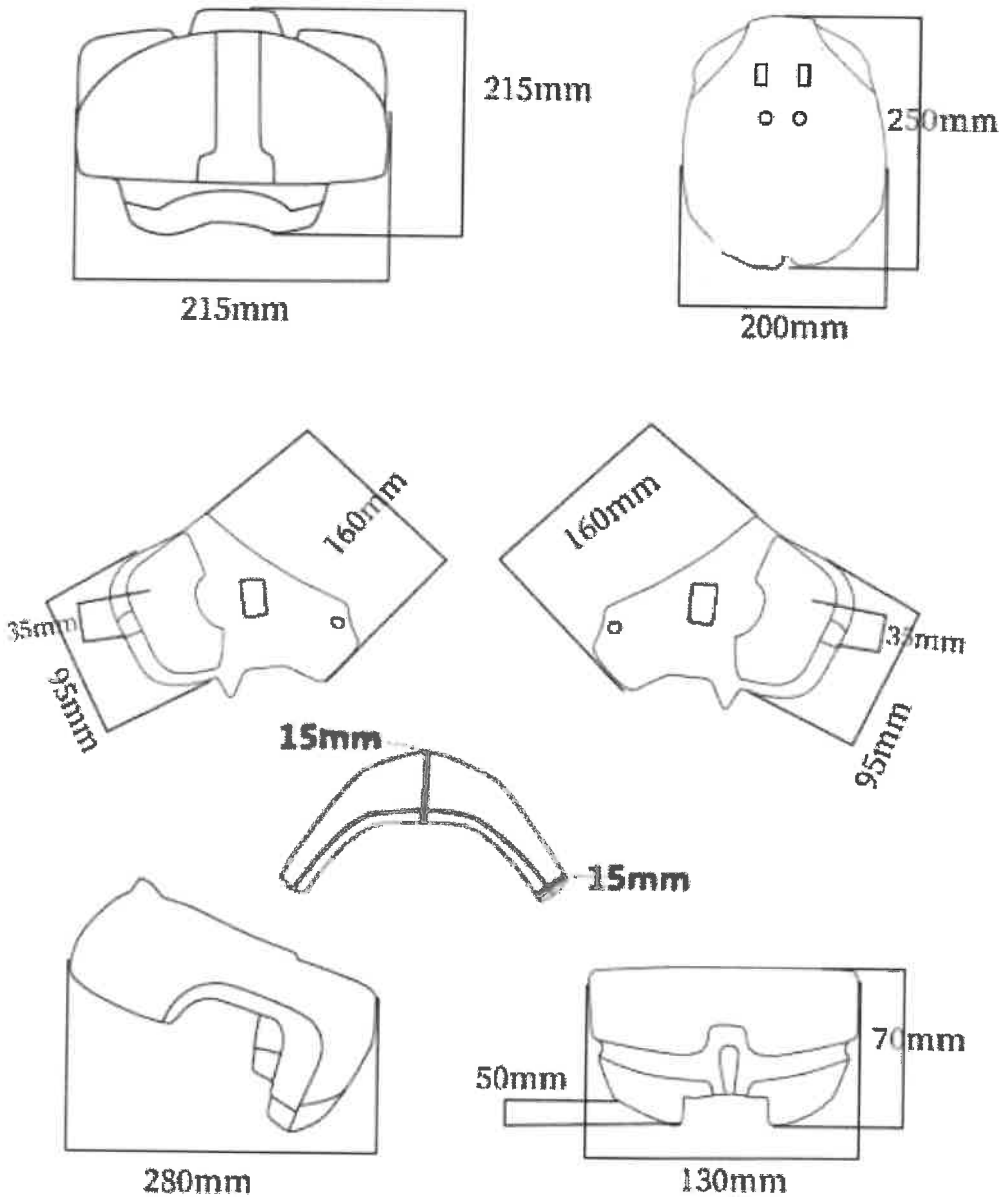
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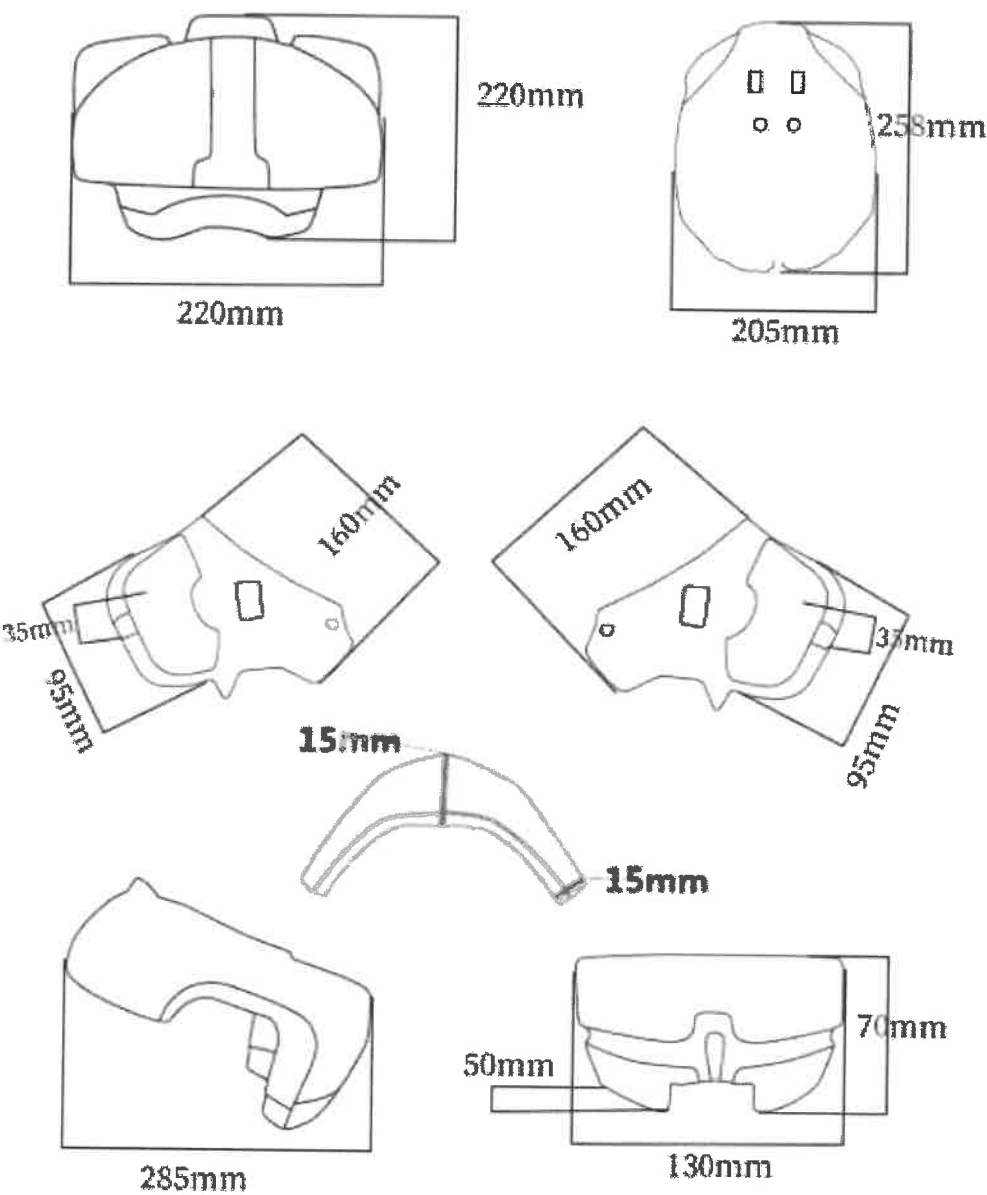
M



DRW.	YM-853-1-04	EPS details (for SIZE M)
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L-XL



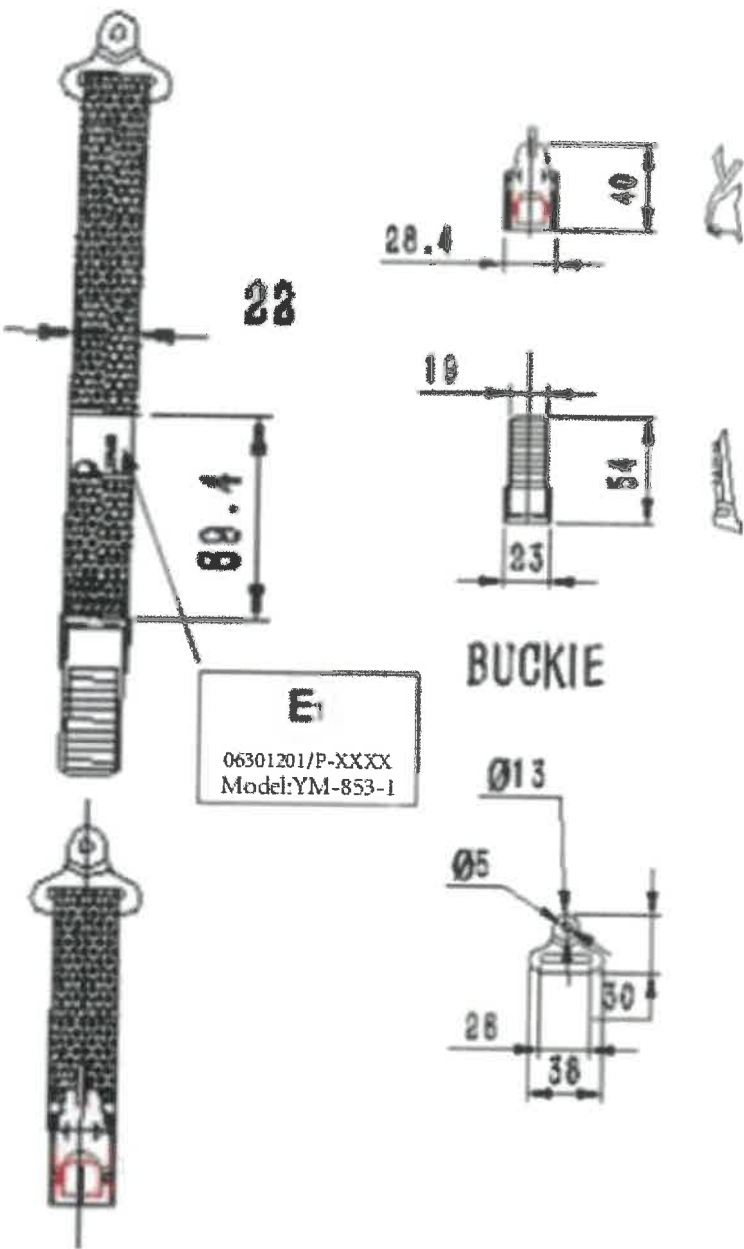
DRW.	YM-853-1-05	EPS details (for SIZES L-XL)
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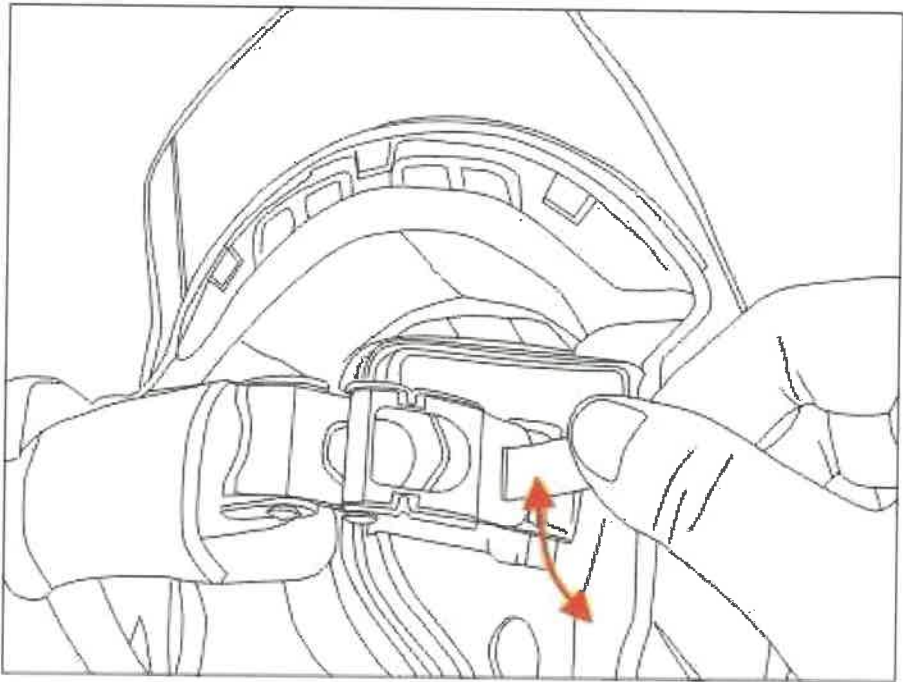
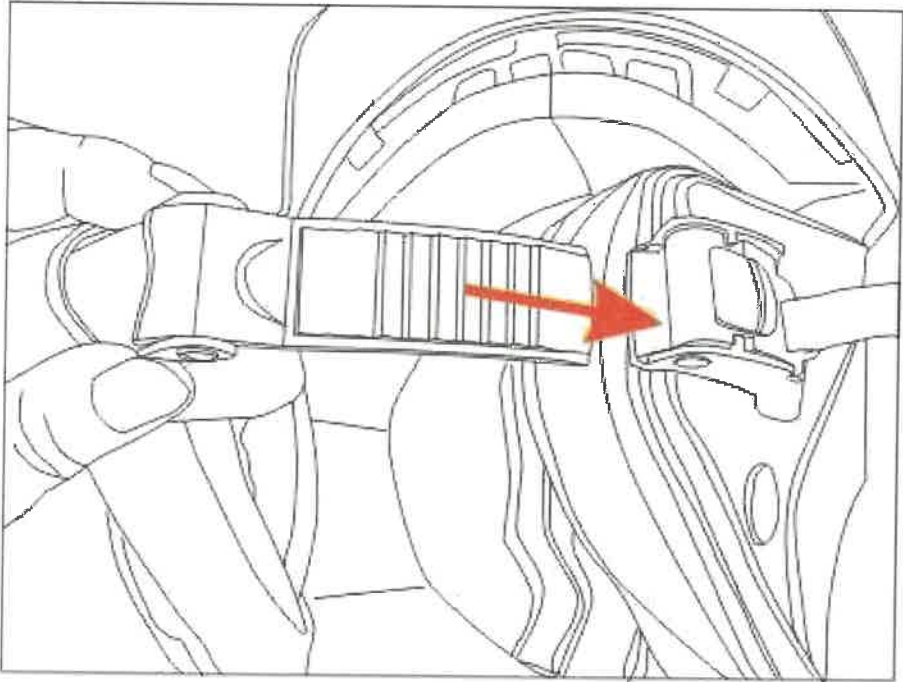
LANXI YEMA MOTORCYCLE FITTINGS CO., LTD
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Part No.	Subject or name		Material
1	Buckle		Iron & plastic
2	Sewing Line		Nylon
3	Chin strap		Nylon
	DRW.	YM-853-1-06	Retention system (with YM-7 buckle)

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DRW.

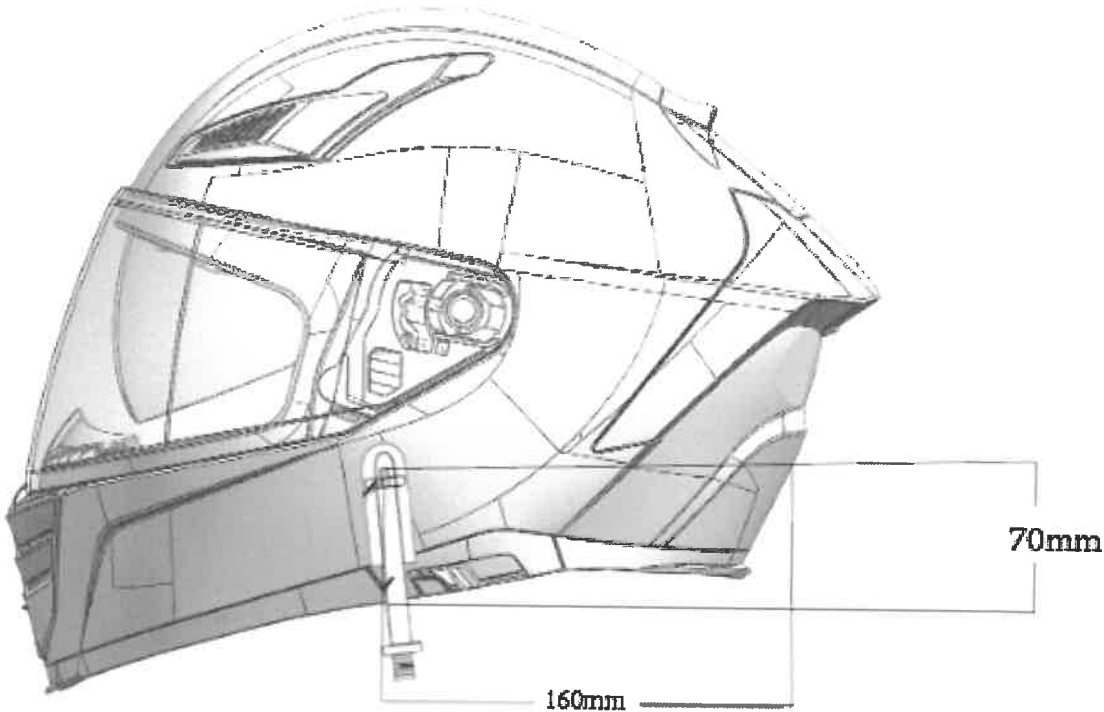
YM-853-1-07

Retention system, chin strap operation

Type YM-853-1

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XS-XL



DRW.	YM-853-1-08	Retention system, position details
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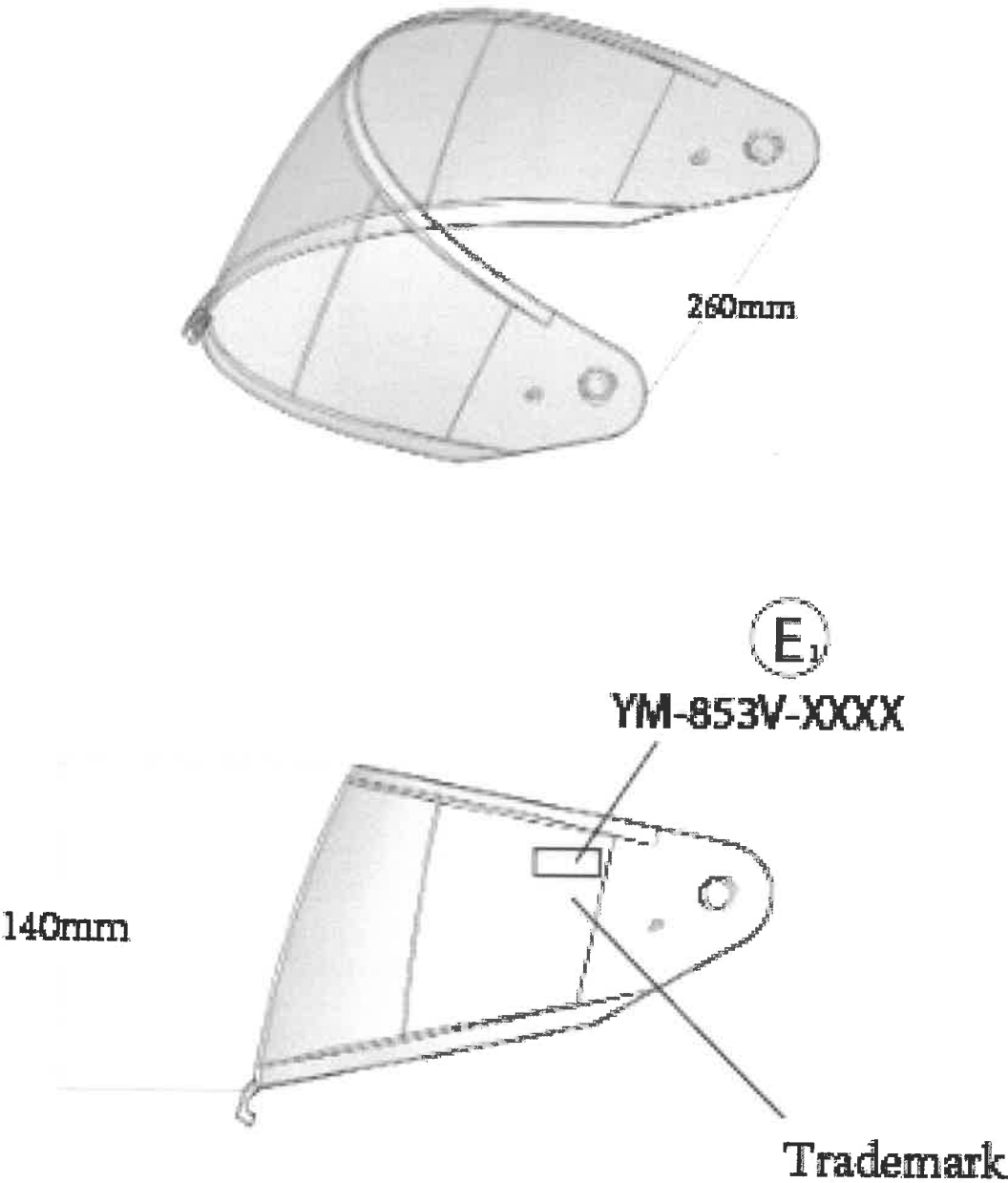
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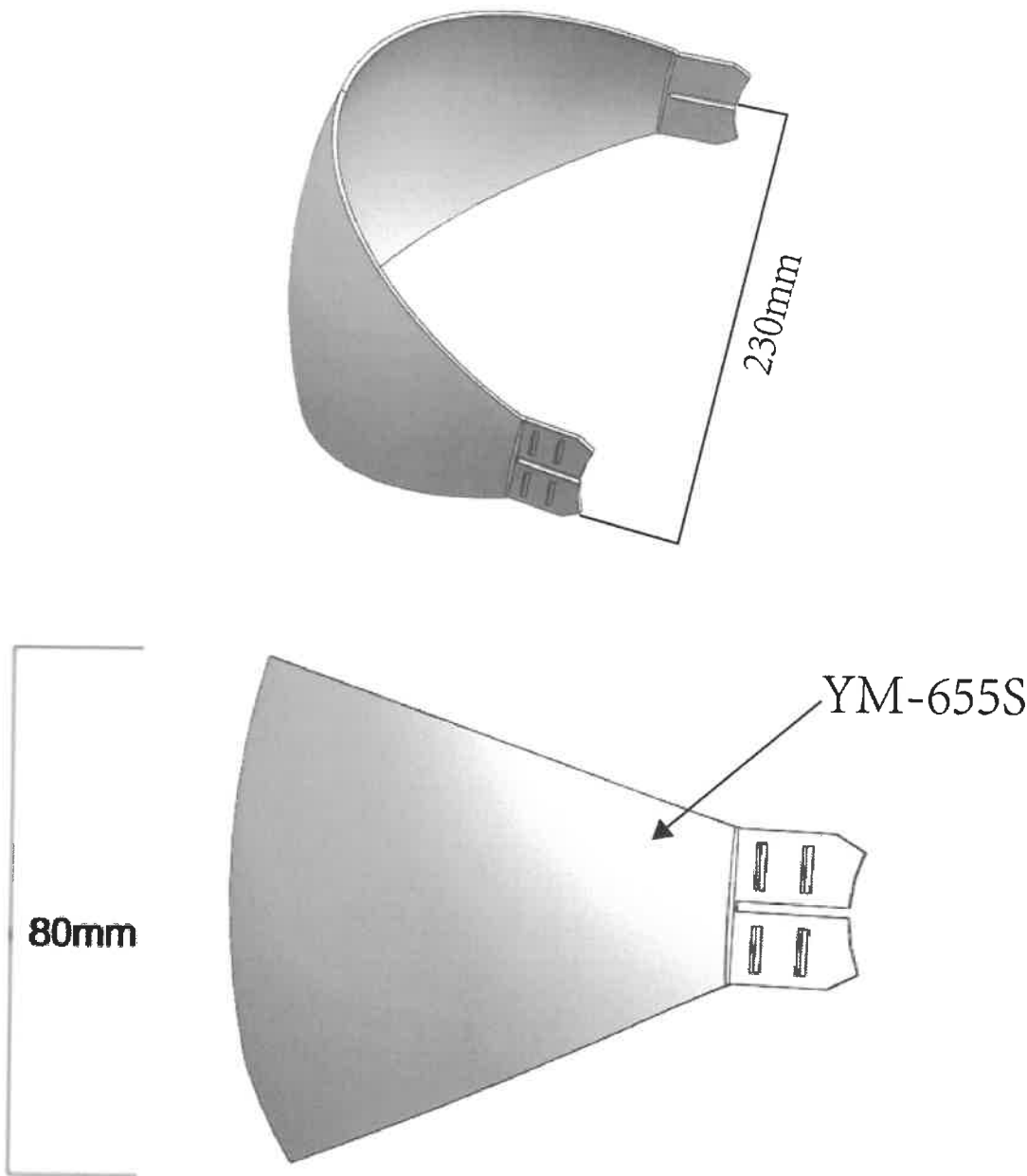
Remark: the thickness of the visor is 2.0 mm

DRW.		YM-853-1-09	Drawing and details of visor (for visor type YM-853V)
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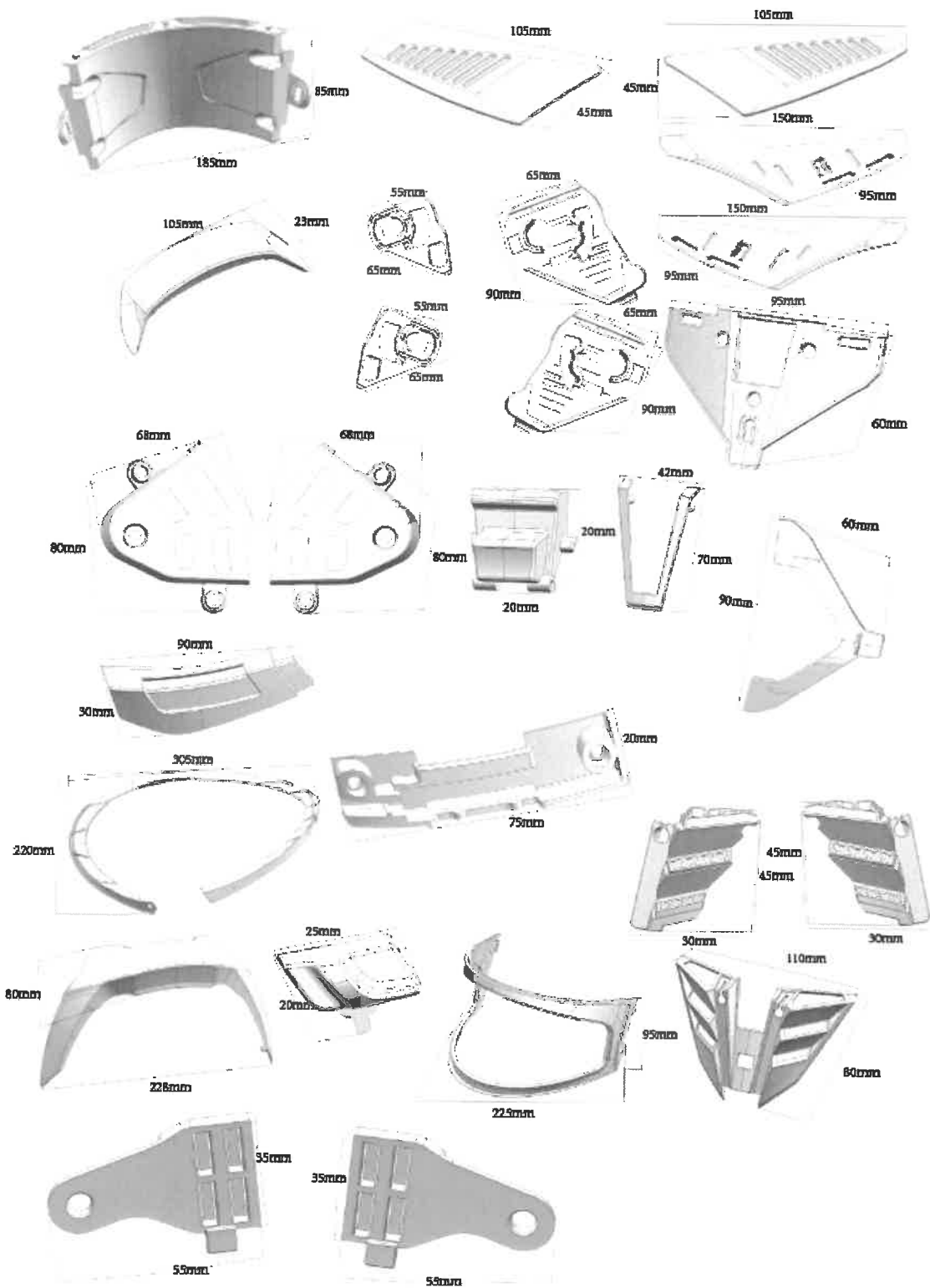
Remark: the thickness of inner visor is 1.6mm.

DRW.	YM-853-1-10	Drawing and details of sun shield (for Sun Shield of YM-655S)	
		Type	YM-853-1
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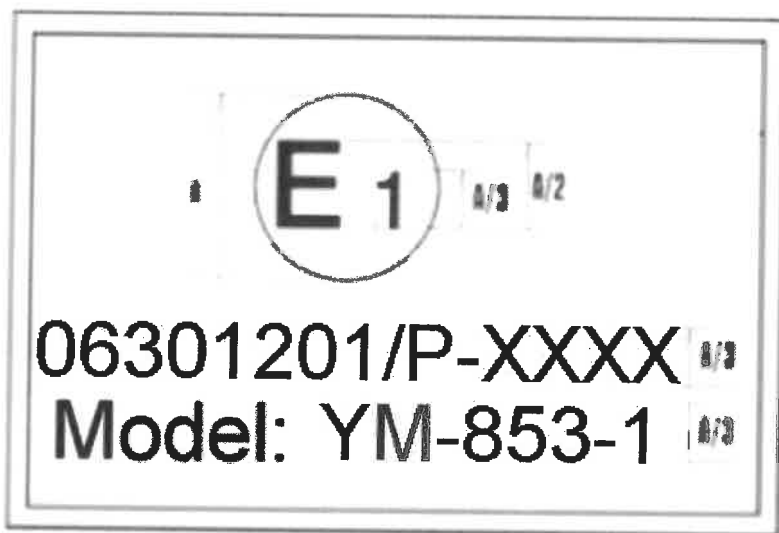
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DRW.	YM-853-1-11	Accessories
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A = 9 mm

HELMET TYPE: YM-853-1
COLOR OF LABEL: WHITE
COLOR OF PRINT: BLACK
MATERIAL OF LABEL: CLOTH



YM-853V-XXXX

B = 9 mm

VISOR TYPE: YM-853V

DRW.	YM-853-1-12	Approval marking(s)
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SIDE VIEW



FRONT VIEW



TOP VIEW



BACK VIEW

DRW.

YM-853-1-13

Helmet assembly pictures

Type

YM-853-1

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