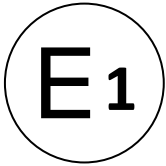




# Kraftfahrt-Bundesamt

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\*301139\*00**

Approval number:

1. Fabrik- oder Handelsmarke:  
Trade name or mark:  
**MHR, LS2, TAKAI, KTM**
2. Typ:  
Type:  
**OF599 PLUS**
3. Größen:  
Sizes:  
**XS 53-54, S 55-56, M 57-58, L 59-60, XL 61-62, XXL 63-64**
4. Name des Herstellers:  
Manufacturer's name:  
**JIANGMEN PENGCHENG HELMETS LTD.  
CN-Gonghe Town, Heshan City**
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**



# Kraftfahrt-Bundesamt

DE-24932 Flensburg

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2

Genehmigungsnummer: **E1\*22R06/02\*301139\*00**

Approval Number:

7.      Anschrift:  
          Address:  
          **Siehe Punkt 6.**  
          **See item 6.**
  
8.      Kurze Beschreibung des Helms:  
          Brief description of helmet:  
          **Siehe Anlagen**  
          **See enclosures**
  
9.      **Helm ohne Kinnbügel (J)**  
          **Helmet without lower face cover (J)**
  
10.     Visiertyp oder Visiertypen:  
          Type of visor or visors:  
          **SF-MHR-18 (E9 22R 066384)**
  
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:  
          **Entfällt**  
          **Not applicable**
  
14.     Wenn UA-Helm:  
          If UA helmet:  
          **Entfällt**  
          **Not applicable**
  
15.     Zur Genehmigung vorgelegt am:  
          Submitted for approval on:  
          **07.02.2024**
  
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**



# Kraftfahrt-Bundesamt

DE-24932 Flensburg

3

Genehmigungsnummer: **E1\*22R06/02\*301139\*00**

Approval Number:

17. Datum des Gutachtens des Technischen Dienstes:  
Date of report issued by that service:  
**01.02.2024**
18. Nummer des Gutachtens des Technischen Dienstes:  
Number of report issued by that service:  
**85-R22-176/24-00**
19. Bemerkung(en):  
Remark(s):  
**Handelsbezeichnung(en):**  
**General commercial description(s):**  
**OF599, OF599 PLUS, OF599-5, SPITFIRE, SPITFIRE II**
20. Die Genehmigung wird **erteilt**  
Approval is **granted**
21. Ort: **DE-24932 Flensburg**  
Place:
22. Datum: **15.02.2024**  
Date:
23. Unterschrift: **Im Auftrag**  
Signature:

  
(D. Stieglitz)



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\*301139\*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:  
**JIANGMEN PENGCHENG HELMETS LTD.**  
**CN-Gonghe Town, Heshan City**
2. Datum der Anfangsbewertung:  
Date of the initial assessment:  
**10.08.2015**
3. Datum aller durchgeführten Überwachungstätigkeiten:  
Date of any surveillance activities:  

Aktenzeichen Register number	Datum der Begehung Date of inspection	Genehmigungsnummer Approval number
CoP-Q: <b>Entfällt</b> <b>Not applicable</b>		
CoP-P: <b>P-501834</b>	<b>12.06.2018</b>	<b>05300517, Erweiterung 02</b>
<b>P-503485</b>	<b>17.03.2022</b>	<b>E1*22R05/03*300584*02</b>



# Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Zu: **E1\*22R06/02\*301139\*00**

To:

## Inhaltsverzeichnis zu den Beschreibungsunterlagen Index to the information package

Ausgabedatum: **15.02.2024**

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-R22-176/24-00**

Datum:

Date:

**01.02.2024**

Beschreibungsbogen Nr.:

Information document No.:

**MHR-OF599 PLUS-00**

Datum:

Date:

**01.01.2024**

Liste der Änderungen:

List of modifications:

**Entfällt**

**Not applicable**

Datum:

Date:



# Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Nummer der Genehmigung: **E1\*22R06/02\*301139\*00**

- Anlage -

## Nebenbestimmungen und Rechtsbehelfsbelehrung

### Nebenbestimmungen

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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2

Approval No.: **E1\*22R06/02\*301139\*00**

- Attachment -

## **Collateral clauses and instruction on right to appeal**

### **Collateral clauses**

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.**

Type : OF599 PLUS

Manufacturer : Jiangmen Pengcheng Helmets Ltd.

---

**TEST REPORT**

according to

**UN-R 22**

Uniform provisions concerning the approval of protective helmets and their visors for drivers and passengers of motor cycles 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 : E1\*22R06/02\*301139\*00 (resevered)

---

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 : OF599 PLUS

Manufacturer : Jiangmen Pengcheng Helmets Ltd.

**0. General information**

- 0.1. Make (trade name of the manufacturer) : MHR, LS2, TAKAI, KTM
- 0.2. Type : OF599 PLUS
  - Commercial description(s) : OF599, OF599 PLUS, OF599-5, SPITFIRE, SPITFIRE II
  - Version(s) : ---
- 0.3. Helmet category : see appendix L, item 9
- 0.4. Name and address of the manufacturer : Jiangmen Pengcheng Helmets Ltd.  
NO.01-7 Dongsheng Road, Gonghe Town, Heshan City, Jiangmen City, Guangdong Province, 529728, P.R.China
- 0.5. No. of the information document : MHR-OF599 PLUS-00
  - Date of issue : January 01, 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 applicable because all versions mentioned in the information folder are tested.~~
  - 1.3. Remarks : without

**Type** : **OF599 PLUS**  
**Manufacturer** : **Jiangmen Pengcheng Helmets 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**

Remarks concerning extension : not applicable

~~The helmet type has been tested according to the modification(s) mentioned in appendix 0.~~

~~The new parts meet the requirements of the regulation.~~

~~An actual practical test of the helmet was not necessary. The results of the previous test(s) are still valid.~~

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 : January 11-12, 2024

2.4. Remarks : without

R22 E1\*22R06/02\*301139\*00

**Type** : **OF599 PLUS**

**Manufacturer** : **Jiangmen Pengcheng Helmets Ltd.**

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**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	: MHR-OF599 PLUS-00 (26 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, February 01, 2024

KWU / CGC



Kevin Wu

Technical Expert Technical Service

**Type** : **OF599 PLUS**

**Manufacturer** : **Jiangmen Pengcheng Helmets Ltd.**

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**List of modifications**

**Appendix 0**

Correction of	:	-
Modification of	:	-
Addition of	:	-
Deletion of	:	-

R22 E1\*22R06/02\*301139\*00

Type : OF599 PLUS

Manufacturer : Jiangmen Pengcheng Helmets Ltd.

## Communication concerning the type approval

Appendix L

1	Trade mark	:	MHR, LS2, TAKAI, KTM
2	Type	:	OF599 PLUS
	Commercial description(s)	:	OF599, OF599 PLUS, OF599-5, SPITFIRE, SPITFIRE II
	Versions(s)	:	---
3	Sizes	:	XS 53-54, S 55-56, M 57-58, L 59-60, XL 61-62, XXL 63-64
4	Manufacturer's name	:	Jiangmen Pengcheng Helmets Ltd.
5	Address of manufacturer	:	NO.01-7 Dongsheng Road, Gonghe Town, Heshan City, Jiangmen City, Guangdong Province, 529728, P.R.China
6	If applicable, name of manufacturer's representative	:	not applicable
7	Address of manufacturer's representative	:	not applicable
8	Brief description of helmet	:	<p>The helmet is composed of ABS shell (Acrylonitrile-Butadiene-Styrene).</p> <p>The XXL-M helmet protective padding is made of one EPS (Expanded Poly Styrene) size liner, one EPS crown liner in the top area, two EPS side liners; The S-XS helmet protective padding is made of one EPS (Expanded Poly Styrene) size liner, and two EPS side liners.</p> <p>The adoption to the different head sizes is done by different sizes of shell, different thickness of the size liner, and different thickness of the comfort padding.</p> <p>The helmet is fitted with 1 visor.</p> <p>The visor type: SF-MHR-18 (E9 22R 066384), made of Polycarbonate (PC), and a thickness of 2.0 mm.</p>
9	Helmet category	:	without lower face cover (J)
10	Type of visor or visors	:	SF-MHR-18
11	Brief description of visor or visors, and inner visor if any	:	<p>Clear visor, made of Polycarbonate (PC) with hardened coating on the surface, and a thickness of 2.0mm.</p> <p>Refer to the type approval: SF-MHR-18(E9 22R 066384)</p>
12	Helmet ready for	:	<del>Specific accessory (SA)/ Universal accessories(UA)</del>
13	Accessories included in the helmet homologation and functionality	:	not applicable
14	If UA helmet	:	not applicable
		:	<del>speakers (S or S45)/Microphone (M)/Front mounting (F) / Side mounting (L), Rear mounting (R)</del>
15	Submitted for approval on	:	January 11-12, 2024

**Type** : **OF599 PLUS**

**Manufacturer** : **Jiangmen Pengcheng Helmets Ltd.**

- |    |   |   |  |
|----|---|---|--|
| 16 | Technical service responsible for conducting approval tests | : | Technischer Dienst der<br>TÜV Rheinland Kraftfahrt GmbH<br>Am Grauen Stein, 51105 Cologne, Germany |
| 17 | Date of report issued by that service                       | : | February 01, 2024  |
| 18 | Number of report issued by that service                     | : | 85-R22-176/24-00   |
| 19 | Comments  | : | not applicable   |
| 20 | Approval  | : | Granted / <del>extended</del> / <del>refused</del> / <del>withdrawn</del>                          |

R22 E1\*22R06/02\*301139\*00

Type : OF599 PLUS

Manufacturer : Jiangmen Pengcheng Helmets Ltd.

Test minutes

Appendix 1

### General Requirements for Helmets

- |     |   |   |  |
|-----|---|---|--|
| 1   | Basic construction<br>(6.1)                     | : | The helmet consists of a shell, protective padding, comfort padding and a retention system.  |
| 2   | Additional construction<br>(6.2/ 6.2.1)         | : | Refer Appendix L, item 8   |
| 3   | Lower face cover<br>(6.2.2.)                    | : | Refer Appendix L, item 9   |
| 4   | Helmet with accessories<br>(6.3)                | : | Not applicable   |
| 4.1 | Helmet with universal<br>accessories<br>(6.3.1) | : | Not applicable   |
| 4.2 | Helmet with specific accessories<br>(6.3.2)     |   | Not applicable   |
| 5   | Protection areas<br>(6.4)                       | : | The shell and padding of the helmets of each size cover the required areas.  |
| 6   | Hearing ability and temperature<br>(6.5)        | : | The wearer's ability to hear is not dangerously affected by the helmet.<br><br><del>The helmet has ventilation holes in the shell to prevent overheating.</del>  |
| 7   | Outer projections<br>(6.6 / 6.7)                | : | All external projections are rounded and smooth.<br>All external projections $\leq 2$ mm have a radius $\geq 1$ mm.<br><br>There are projections of the outer shell, greater than 2mm.<br>All external projections $> 2$ mm have a radius $\geq 2$ mm.<br>The shear assessment was successful. |
| 8   | Inner projections<br>(6.8)                      | : | No inward facing sharp edges. All internal parts are covered with padding.   |
| 9   | Helmet components<br>(6.9)                      | : | The components of the helmet are assembled in a way that they do not become easily detached as a result of impact.   |

**Type** : **OF599 PLUS**

**Manufacturer** : **Jiangmen Pengcheng Helmets Ltd.**

10	Retention system	
10.1	Abrasion protection (6.10)	: The wearer is protected from abrasion by the retention system.
10.2	General (6.11)	: The retention system fully complies with the requirements of the regulation: <ul style="list-style-type: none"> <li>- Retention System is permanently attached</li> <li>- Chin strap is adjustable and maintains tension</li> <li>- Strap has a width of minimum 20 mm</li> <li>- No chin-cup</li> <li>- No rigid parts 130 mm below head form reference plane</li> <li>- Total opening of retention system only with voluntary action</li> <li>- Detailed instructions for use of the buckle</li> <li>- If sliding bar or double D ring: red pulling flap with minimum dimensions of 10x20 mm is provided</li> <li>- Buckle cannot be left in partially closed position</li> </ul>
10.3	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.
11	Detachable/movable face cover (6.12)	: Not applicable
12	Materials (6.13)	: The materials used for the helmet comply with the regulation.
13	Breakage and deformation (6.14)	: The helmet does not show breakage or deformation dangerous to the wearer after testing.
14	Peripheral vision (6.15)	: Complies with the requirements of the regulation, refer test results.
15	Visor	: Refer to the visor approval: SF-MHR-18 (E9 22R 066384)
16	Sun shield	: not applicable
17	Conspicuity marking (6.18)	: The helmet is not equipped with retroreflective parts.
18	Accessories (6.19)	: Not applicable



**Type** : **OF599 PLUS****Manufacturer** : **Jiangmen Pengcheng Helmets Ltd.**

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19 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.

R22 E1\*22R06/02\*301139\*00

**Type** : **OF599 PLUS**

**Manufacturer** : **Jiangmen Pengcheng Helmets Ltd.**

6.15. Peripheral vision

Helmet Size	Test head	horizontal angle [°] (min. 210°)	upwards angle [°] (min. 7°)	downwards angle [°] (min. 45°)
XS 53-54	535	212	7	Jet
XXL 63-64	625	213	7	Jet

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	186	1448
	XL	229	1964
	P	169	1564
	R	155	1328
	S	---	---
Helmet 2 High Temp. (+50°C)	B	200	1167
	XL	143	1095
	P	127	975
	R	129	898
	S	---	---

R22 E1\*22R06/02\*301139\*00

Type : **OF599 PLUS**

Manufacturer : **Jiangmen Pengcheng Helmets Ltd.**

helmet size : S 55-56  
 test-head-size : 535  
 anvil : Flat (Helm. 3), Kerbstone (Helm. 4)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 3 Low Temp. (-10°C)	B	189	1554
	XL	219	1870
	P	166	1536
	R	154	1276
	S	---	---
Helmet 4 High Temp. (+50°C)	B	177	1119
	XL	150	1133
	P	146	1079
	R	128	993
	S	---	---

helmet size : S 55-56  
 test-head-size : 535  
 anvil : Flat (Helm. 5), Kerbstone (Helm. 6), Kerbstone (Helm. 7)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 5 Ambient	B	183	1578
	XR	210	1776
	P	173	1536
	R	150	1226
	S	---	---
Helmet 6 Ambient	B	130	1057
	XR	156	1215
	P	147	1114
	R	124	954
	S	---	---
Helmet 7 Artificial ageing	B	138	1080
	XL	157	1231
	P	125	1015
	R	123	959
	S	---	---

R22 E1\*22R06/02\*301139\*00

Type : **OF599 PLUS**

Manufacturer : **Jiangmen Pengcheng Helmets Ltd.**

helmet size : M 57-58  
 test-head-size : 575  
 anvil : Flat (Helm. 8), Kerbstone (Helm. 9)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 8 Low Temp. (-10°C)	B	198	1597
	XL	227	1977
	P	199	2141
	R	213	2032
	S	---	---
Helmet 9 High Temp. (+50°C)	B	226	1405
	XL	156	1172
	P	148	1061
	R	142	1052
	S	---	---

helmet size : L 59-60  
 test-head-size : 605  
 anvil : Flat (Helm. 10), Kerbstone (Helm. 11), Flat (Helm. 12)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 10 Ambient	B	177	1286
	XR	220	1777
	P	195	1897
	R	209	1825
	S	---	---
Helmet 11 Ambient	B	165	1075
	XR	165	1221
	P	131	1002
	R	147	1106
	S	---	---
Helmet 12 Artificial ageing	B	175	1267
	XL	204	1630
	P	193	1974
	R	208	1823
	S	---	---

Type : OF599 PLUS

Manufacturer : Jiangmen Pengcheng Helmets Ltd.

helmet size : L 59-60  
 test-head-size : 605  
 anvil : Flat (Helm. 13), Kerbstone (Helm. 14)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 13 Low Temp. (-10°C)	B	217	1394
	XL	219	1818
	P	200	2032
	R	216	1789
	S	---	---
Helmet 14 High Temp. (+50°C)	B	264	1344
	XL	194	1259
	P	131	982
	R	168	1190
	S	---	---

helmet size : XXL 63-64  
 test-head-size : 625  
 anvil : Flat (Helm. 15), Kerbstone (Helm. 16), Kerbstone (Helm. 17)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 15 Ambient	B	179	1565
	XR	210	1769
	P	200	2067
	R	209	1858
	S	---	---
Helmet 16 Ambient	B	159	1134
	XR	174	1165
	P	162	1178
	R	141	1082
	S	---	---
Helmet 17 Artificial ageing	B	151	1080
	XL	162	1085
	P	160	1140
	R	145	1090
	S	---	---

Type : **OF599 PLUS**

Manufacturer : **Jiangmen Pengcheng Helmets Ltd.**

helmet size : XXL 63-64  
 test-head-size : 625  
 anvil : Flat (Helm. 18), Kerbstone (Helm. 19)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 18 Low Temp. (-10°C)	B	191	1694
	XL	199	1641
	P	206	2151
	R	210	1900
	S	---	---
Helmet 19 High Temp. (+50°C)	B	200	1207
	XL	189	1227
	P	164	1102
	R	143	1054
	S	---	---

Low energy impact

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

helmet size : S 55-56  
 test-head-size : 535  
 anvil : Kerbstone (Helm. 20)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 20 Ambient	B	106	549
	XL	128	728
	P	116	568
	R	111	588
	S	---	---

helmet size : L 59-60  
 test-head-size : 605  
 anvil : Flat (Helm. 21)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 21 Ambient	B	128	660
	XL	156	916
	P	154	1098
	R	165	1066
	S	---	---

R22 E1\*22R06/02\*301139\*00

Type : **OF599 PLUS**

Manufacturer : **Jiangmen Pengcheng Helmets Ltd.**

helmet size : XXL 63-64  
 test-head-size : 625  
 anvil : Kerbstone (Helm. 22)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 22 Ambient	B	100	543
	XL	104	518
	P	111	568
	R	107	596
	S	---	---

High energy impact

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

helmet size : S 55-56  
 test-head-size : 535  
 anvil : Flat (Helm. 23)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 23 Ambient	B	242	2084
	XL	251	2388
	P	208	2001
	R	179	1634
	S	---	---

helmet size : L 59-60  
 test-head-size : 605  
 anvil : Flat (Helm. 24)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 24 Ambient	B	214	1772
	XL	237	2223
	P	215	2423
	R	234	2339
	S	---	---

Type : **OF599 PLUS**

Manufacturer : **Jiangmen Pengcheng Helmets Ltd.**

helmet size : XXL 63-64  
 test-head-size : 625  
 anvil : Flat (Helm. 25)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 25 Ambient	B	197	1749
	XL	238	2205
	P	223	2546
	R	229	2155
	S	---	---

Extra point

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

helmet size : L 59-60  
 test-head-size : 605  
 anvil : Kerbstone (Helm. 26)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 26 Ambient	BXPR	145	1058
	BXL	170	1095
	RXPL	173	1262
	RXR	178	1262

helmet size : XXL 63-64  
 test-head-size : 625  
 anvil : Flat (Helm. 27)

Conditioning	Impact point	Res. acceleration [g]	HIC [-]
Helmet 27 Ambient	BXR	203	1554
	BXPL	181	1757
	RXL	221	2024
	RXPR	219	2302



Type : **OF599 PLUS**

Manufacturer : **Jiangmen Pengcheng Helmets Ltd.**

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

All values are within the limits of the regulation.

Helmet size	M 57-58	
Test head size	575	
	Test with positive result at the following points of the outer shell:	
1.	Rear part of helmet sliding tangential at the projection	Positive
2.	Main outer shell area test for friction assessment	Positive

7.4.3 Test for projections of the category P/J with movable lower face cover. (strength assessment of the movable face cover in the position "J")

Not applicable.

7.5 Rigidity test

All values are within the limits of the regulation.

Helmet Size	Direction	Deformation [mm] (max. 40 mm)	Permanent deformation [mm] (max. 15 mm)
S 55-56	longitudinal	22	10
	transversal	20	8
L 59-60	longitudinal	14	3
	transversal	16	5
XXL 63-64	longitudinal	16	5
	transversal	16	5

R22 E1\*22R06/02\*301139\*00

**Type : OF599 PLUS**

**Manufacturer : Jiangmen Pengcheng Helmets Ltd.**

7.6. Dynamic test of the retention system

All values are within the limits of the regulation.

With DD Ring

Helmet Size	Headsizes	dyn.movement [mm] (max. 35 mm)	stat.movement [mm] (max.25 mm)	Remarks
XS 53-54	535	19.8	3.6	--
M 57-58	575	23.1	9.0	--
XL 61-62	625	21.3	9.1	--

With No. 22 Buckle

Helmet Size	Headsizes	dyn.movement [mm] (max. 35 mm)	stat.movement [mm] (max.25 mm)	Remarks
XS 53-54	535	24	7.6	--
M 57-58	575	22	6.6	--
XL 61-62	625	20.7	6.3	--

7.7.2. Retention (detaching) test  
[Weight hooked to the front border]  
All values are within the limits of the regulation.

With DD Ring

Helmet Size	Headsizes	angle of movement [°] (max. 30°)	Remarks
XS 53-54	535	25	Front to rear
M 57-58	575	23	Front to rear
XL 61-62	625	16	Front to rear

**Type** : **OF599 PLUS**

**Manufacturer** : **Jiangmen Pengcheng Helmets Ltd.**

With No. 22 Buckle

Helmet Size	Headsizes	angle of movement [°] (max. 30°)	Remarks
XS 53-54	535	29	Front to rear
M 57-58	575	14	Front to rear
XL 61-62	625	20	Front to rear

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

All values are within the limits of the regulation.

With DD Ring

Helmet Size	Headsizes	angle of movement [°] (max. 30°)	Remarks
XS 53-54	535	21	Rear to front
M 57-58	575	27	Rear to front
XL 61-62	625	27	Rear to front

With No. 22 Buckle

Helmet Size	Headsizes	angle of movement [°] (max. 30°)	Remarks
XS 53-54	535	29	Rear to front
M 57-58	575	23	Rear to front
XL 61-62	625	29	Rear to front

7.8. Visor tests

Refer to visor type approval No.: SF-MHR-18 (E9 22R 066384)

7.9. Sun shield tests

Not applicable.

Type : OF599 PLUS

Manufacturer : Jiangmen Pengcheng Helmets Ltd.

7.10 Microslip-test of the chin strap

All values are within the limits of the regulation.

Movement:	< 10.0 mm	Limit: ≤ 10 mm
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7.11 Test for resistance to abrasion of the chin strap

The tests according to 7.11.1 to 7.11.4 were performed, the strap withstand a tension of 3 kN without breaking.

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.

R22 E1\*22R06/02\*301139\*00

Type : OF599 PLUS

Manufacturer : Jiangmen Pengcheng Helmets Ltd.

## 7.13. Oblique impact test method of measuring rotational acceleration

All values are within the limits of the regulation, 10400 rad/s<sup>2</sup> respectively BrIC 0,78.

Headsize	Cond.	Anvil Shape	Point	Helmet Size	Rotation [rad/s <sup>2</sup> ]	BrIC	Remark
535	AMB	45°	FLR	S 53-54	1408	0.27	--
535	AMB	45°	Rear	S 53-54	2128	0.35	--
535	AMB	45°	LL	S 53-54	2567	0.45	--
535	AMB	45°	Front	S 53-54	2659	0.31	--
535	AMB	45°	RLR	S 53-54	3235	0.41	--
605	AMB	45°	FLR	L 59-60	1533	0.21	--
605	AMB	45°	Rear	L 59-60	2204	0.33	--
605	AMB	45°	LL	L 59-60	3424	0.34	--
605	AMB	45°	Front	L 59-60	2348	0.27	--
605	AMB	45°	RLR	L 59-60	2478	0.33	--
625	AMB	45°	FLR	XXL 63-64	1305	0.21	--
625	AMB	45°	Rear	XXL 63-64	1883	0.29	--
625	AMB	45°	LL	XXL 63-64	2141	0.26	--
625	AMB	45°	Front	XXL 63-64	2154	0.29	--
625	AMB	45°	RLR	XXL 63-64	1835	0.25	--

R22 E1\*22R06/02\*301139\*00

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024

## Content

	DOCUMENT	PAGE
	Technical description	2-3
	Assembly drawing	4
	Material list of parts	5
	Helmet section view	6-8
Dimension and weight of helmet (tolerances incorporated)		9
	Impact absorption material thickness	10
	EPS details	11-15
	Retention system	16-17
	Retention system position	18-20
	Retention system operation	21
	Drawings and details for visor	22
	Approval marking(s)	23
	Label marking(s)	24-25
	Helmet assembly pictures	26
	Type	OF599 PLUS
	Page	1 of 26

R22 E1\*22R06/02\*301139\*00

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024

INFORMATION DOCUMENT FOR TYPE-APPROVAL OF PROTECTIVE HELMETS AND/  
~~OR<sup>1</sup> OF THEIR VISORS~~ FOR DRIVERS AND PASSENGERS OF MOTOR CYCLES AND  
MOPEDS

1. Make (trade name or mark of the manufacturer) : MHR, LS2, TAKAI,KTM
2. Type : OF599 PLUS  
Commercial description(s) : OF599, OF599 PLUS, OF599-5,  
SPITFIRE, SPITFIRE II  
Version : N/A
3. Sizes : XS (53cm-54cm), S (55cm-56cm), M (57cm-58cm), L (59cm-60cm), XL (61cm-62cm),  
XXL (63cm-64cm)
4. Name of the manufacturer : Jiangmen Pengcheng Helmets Ltd.
5. Address of the manufacturer : NO.01-7 Dongsheng Road,Gonghe  
Town,Heshan,Jiangmen  
City,Guangdong,529728  
P.R. China
6. Name of the manufacturer's representative : N/A
7. Address of the manufacturer's representative : N/A
8. Brief description of the helmet : The helmet is composed of ABS shell  
(Acrylonitrile-Butadiene-Styrene).  
and / or<sup>1</sup>  
Brief description of visor  
The XXL-M helmet protective padding is made of one EPS (Expanded Poly Stvrene) size liner, one EPS crown liner in the top area, two EPS side liners; The S-XS helmet protective padding is made of one EPS (Expanded Poly Stvrene) size liner, and two EPS side liners.  
The adoption to the different head sizes is done by different sizes of shell, different thickness of the size liner, and different thickness of the comfort padding.

	Type	OF599 PLUS
	Page	2 of 26

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024

The helmet is fitted with 1 visor.

The visor type: SF-MHR-18 (E9 22R 066384), made of Polycarbonate (PC), and a thickness of 2.0 mm.

## ADDITIONAL INFORMATION

Helmet without lower face cover (J) / ~~with protective lower face cover (P) / with non protective lower face cover (NP) / with detachable or movable lower face cover (P/J)~~<sup>1</sup> J

Type of visor or visors : SF-MHR-18

Types of helmet to which the visor may be fitted

Name and address of assembly plant : Jiangmen Pengcheng Helmets Ltd.  
NO.01-7 Dongsheng Road, Gonghe Town, Heshan, Jiangmen City, Guangdong, 529728 P.R. China

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

### NOTE:

<sup>1</sup> strike through where not applicable

	Type	OF599 PLUS
	Page	3 of 26



# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



6	镜片 visor	个 piece	1	PC
5	帽带 chin strap	条 unit	2	NYLON
4	壳体扣环 buckle/ring	套 set	2	stainless steel
3	内衬 comfort padding	套 set	6	NYLON
2	泡沫 protective padding	个 piece	5	EPS
1	壳体 Outer shell	个 piece	3	ABS
序号 number	名称 name	单位 unit	数量 piece	材料 material

MODEL	OF599 PLUS XXL-XL		OF599 PLUS L-M		OF599 PLUS S-XS	
SIZE		XXL	XL	L	M	S XS
CM		63-64	61-62	59-60	57-58	55-56 53-54

技术要求  
TECHNICAL REQUIREMENTS

1. The surface of the outshell should be smooth and bright no mottle, pinhold, bulb, drop lack of oil, discolour of basic color.
2. Every spare parts should be fixed correctly, and not be loose, missed.

DRW.

OF599 PLUS-01

Assembly Drawing

	Type	OF599 PLUS
	Page	4 of 26

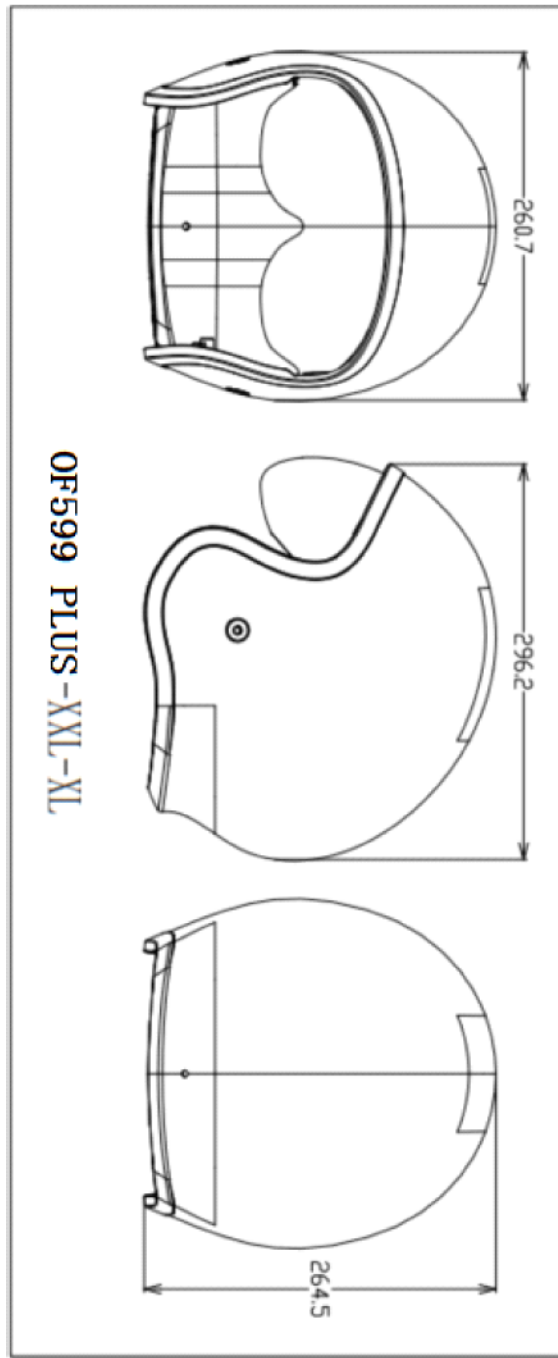
R22 E1\*22R06/02\*301139\*00



# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



Unit: mm

DRW.	OF599 PLUS-02	Helmet section view (For SIZE XL-XXL)
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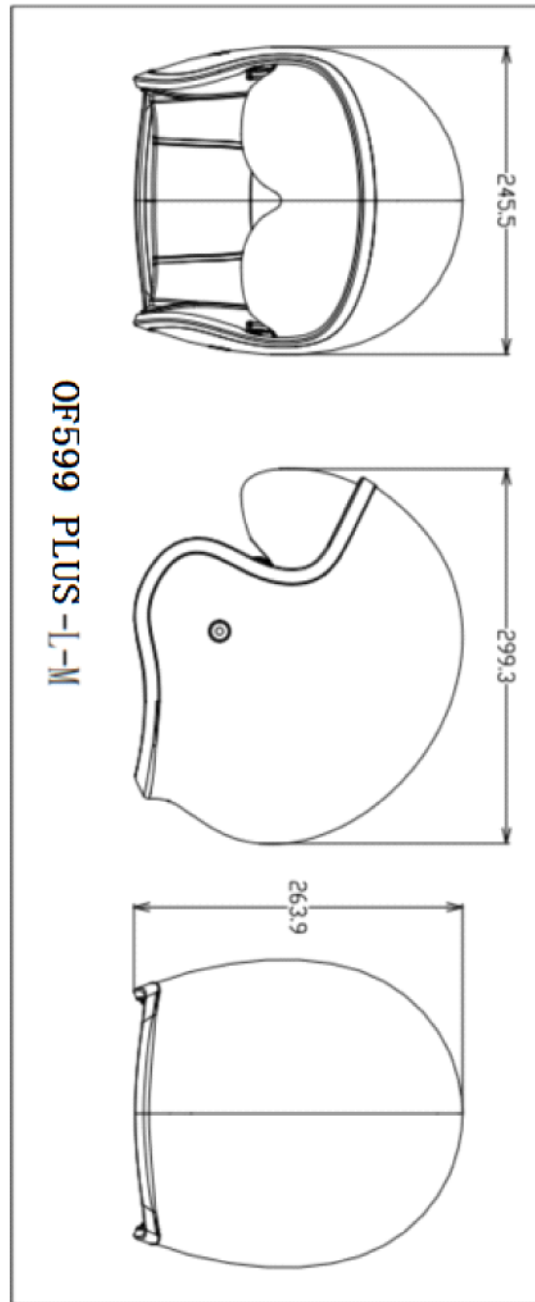
	Type	OF599 PLUS
	Page	6 of 26

R22 E1\*22R06/02\*301139\*00

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



Unit: mm

DRW.	OF599 PLUS-03	Helmet section view (For SIZE L-M)
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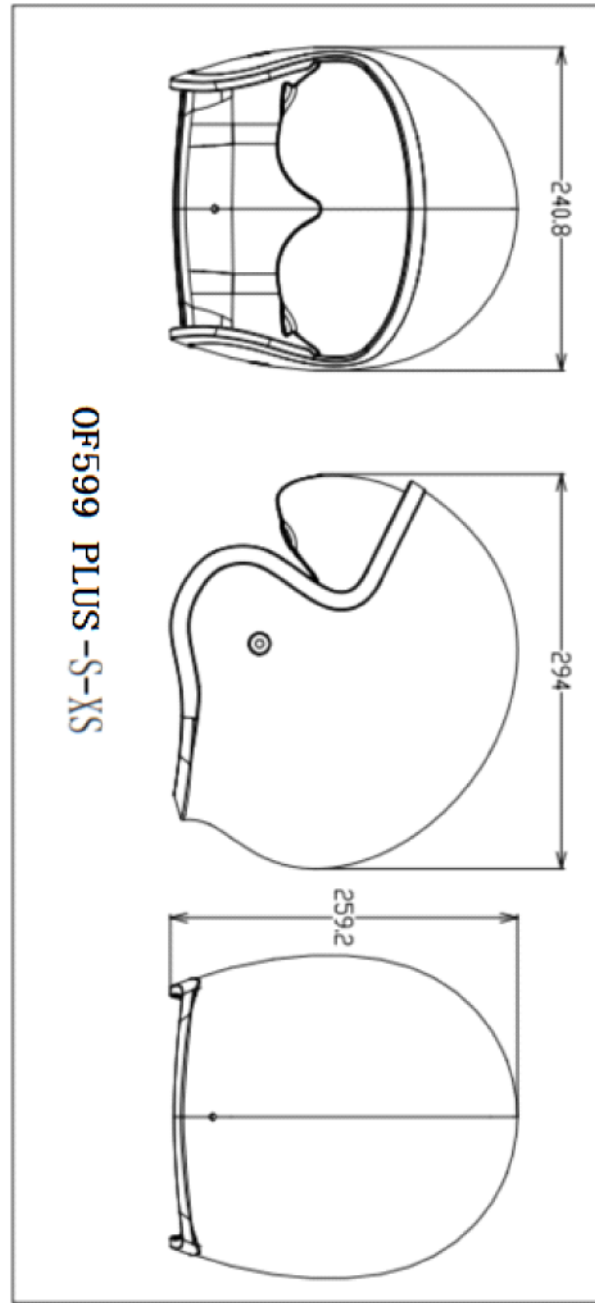
	Type	OF599 PLUS
	Page	7 of 26

R22 E1\*22R06/02\*301139\*00

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



Unit: mm

DRW.	OF599 PLUS-04	Helmet section view (For SIZE XS-S)
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	Type	OF599 PLUS
	Page	8 of 26

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024

## Dimension and weight

### 1. Dimension of the shell:

SIZE	Length (mm)	Width (mm)	Height (mm)
XXL-XL	296.2	260.7	264.5
L-M	299.3	245.5	263.9
S-XS	294.0	240.8	259.2

### 2. Total weight of the helmet:

Size	Weight (g)	Tolerance (g)
XS	1050	±50
S	1050	±50
M	1150	±50
L	1150	±50
XL	1200	±50
XXL	1200	±50

### 3. Specific gravity of the impact absorption liner

Size	Specific gravity of Size Liner (kg/m <sup>3</sup> )	Specific gravity of Crown Liner (kg/m <sup>3</sup> )	Specific gravity of Side Liner (kg/m <sup>3</sup> )	Specific gravity of Chin Liner (kg/m <sup>3</sup> )
XS	35	/	50	/
S	35	/	50	/
M	50	24	50	/
L	50	24	60	/
XL	55	24	65	/
XXL	55	24	65	/

	Type	OF599 PLUS
	Page	9 of 26

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024

## Impact absorption material thickness in millimeter, SHELL

Size	Section B-Point	Section P-Point	Section R-Point	Section X-Point	Lower Face cover
XS	3.2	3.2	3.2	2.7	/
S	3.2	3.2	3.2	2.7	/
M	3.2	3.2	3.2	3.0	/
L	3.2	3.2	3.2	3.0	/
XL	3.2	3.2	3.2	3.0	/
XXL	3.2	3.2	3.2	3.0	/

## Impact absorption material thickness in millimeter, EPS

Size	Section B-Point	Section P-Point	Section R-Point	Section X-Point	Section S-Point
XS	36	43	41	36.5	/
S	35	42	38	34	/
M	32	42	44	33	/
L	37	40	36	32.5	/
XL	34.4	41	35	32	/
XXL	34.4	41	35	32	/

## Impact absorption material thickness in millimeter, LINING

Size	Section B-Point	Section P-Point	Section R-Point	Section X-Point	Side Part Lining
XS	16	16	16	22	22
S	10	10	10	22	22
M	16	16	16	12	12
L	10	10	10	12	12
XL	10	10	10	12	12
XXL	6	6	6	12	12

Type OF599 PLUS

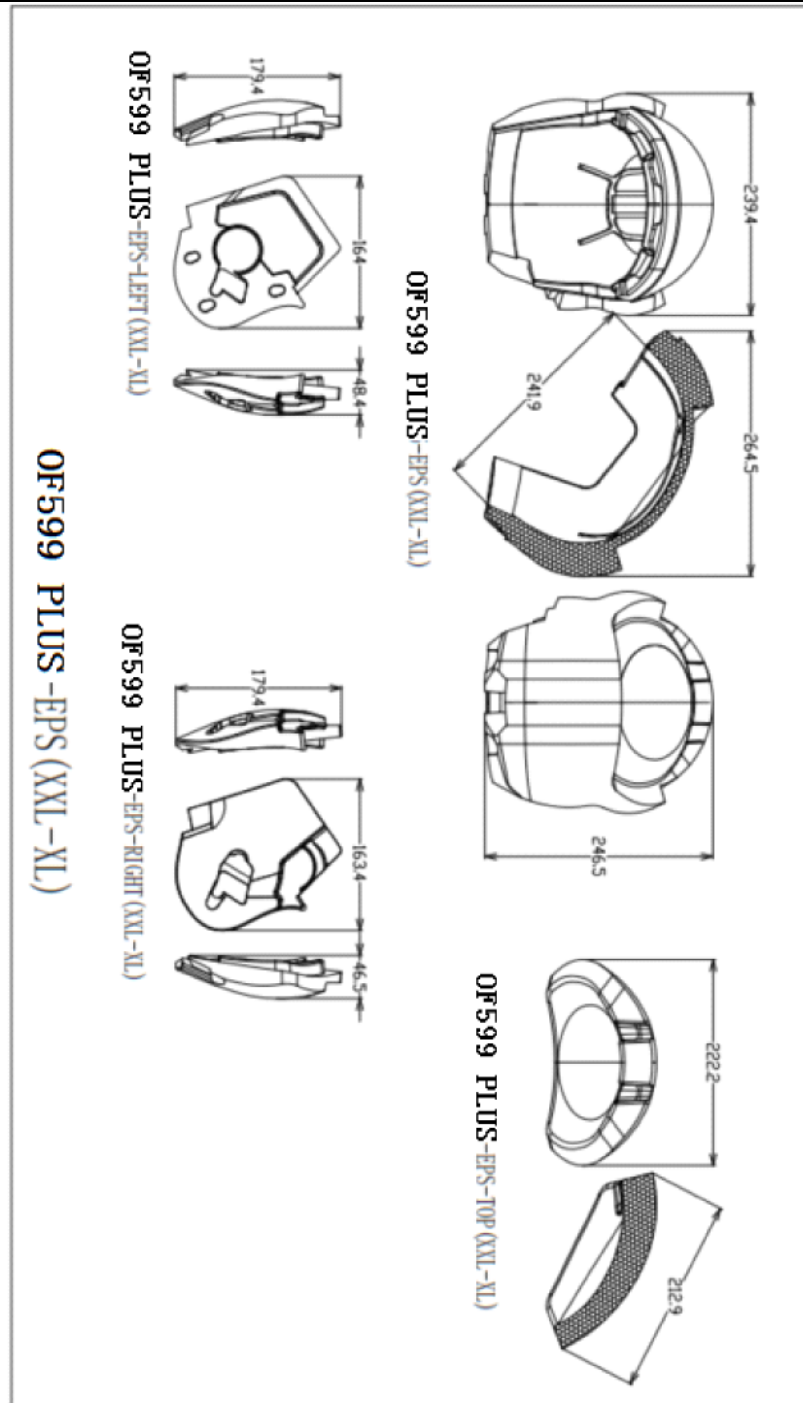
Page 10 of 26

R22 E1\*22R06/02\*301139\*00

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



Unit: mm

	DRW.	OF599 PLUS-05	EPS details (For SIZE XL-XXL)
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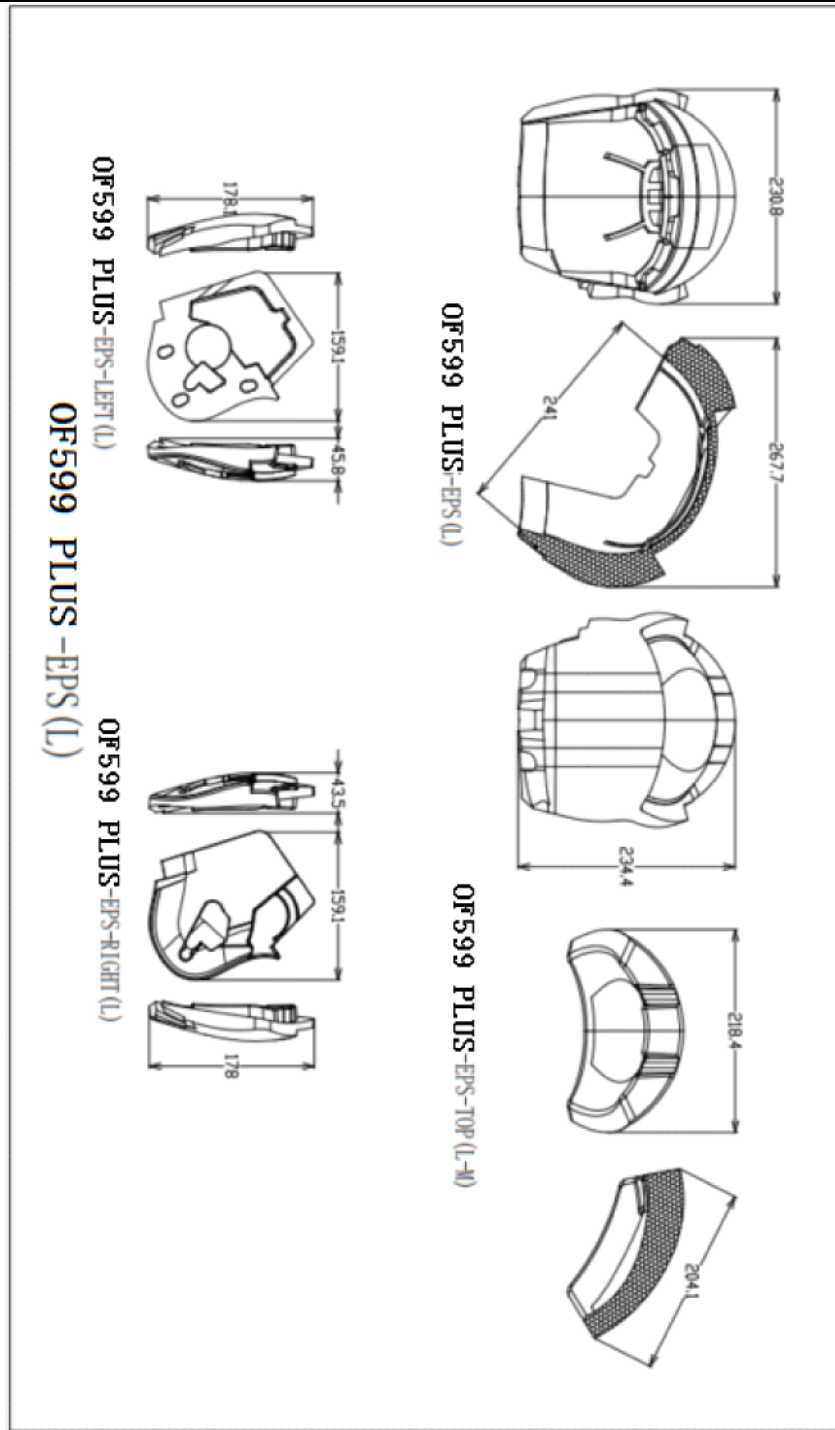
	Type	OF599 PLUS
	Page	11 of 26



# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



Unit: mm

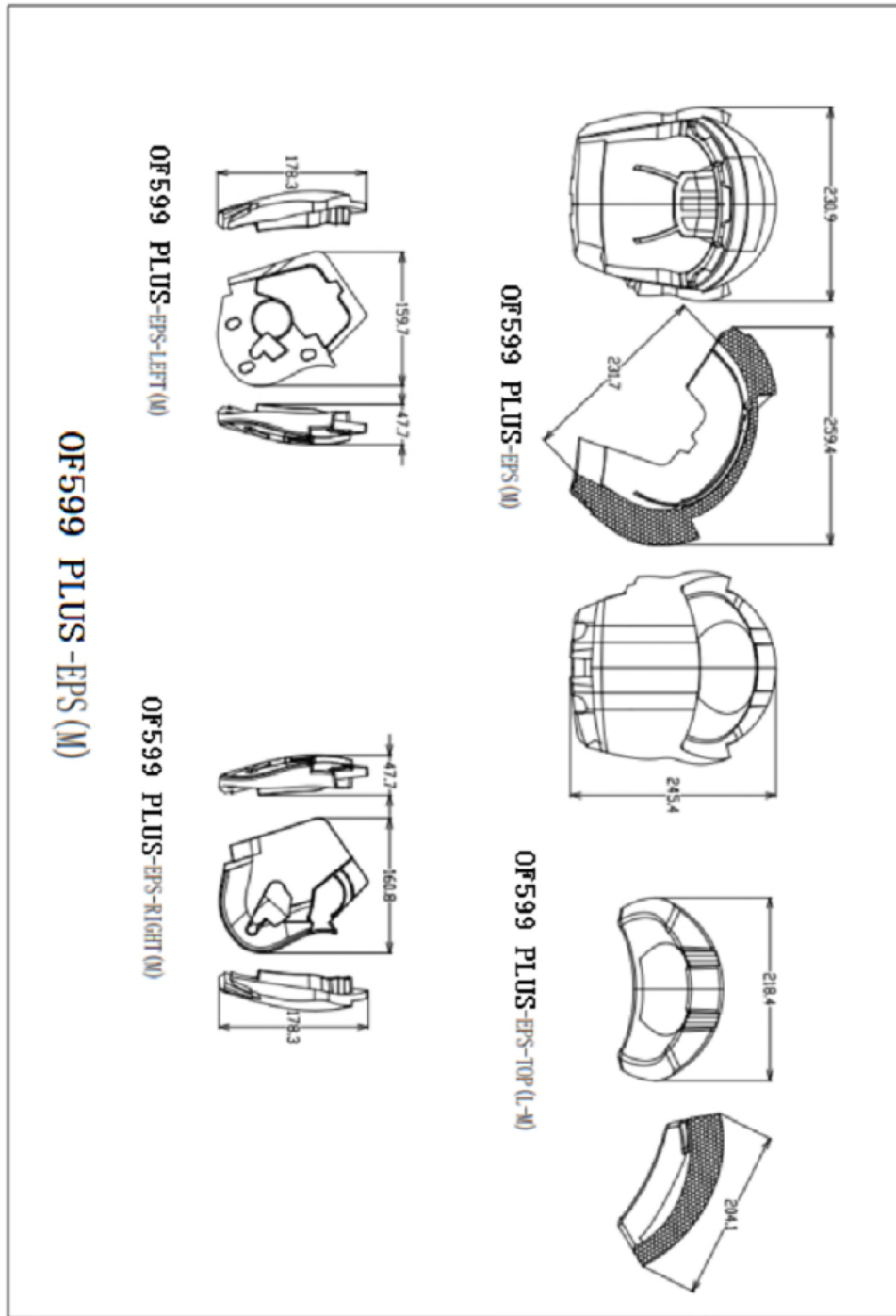
	DRW.	OF599 PLUS-06	EPS details (For SIZE L)
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	Type	OF599 PLUS
	Page	12 of 26

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



Unit: mm

DRW.	OF599 PLUS-07	EPS details (For SIZE M)
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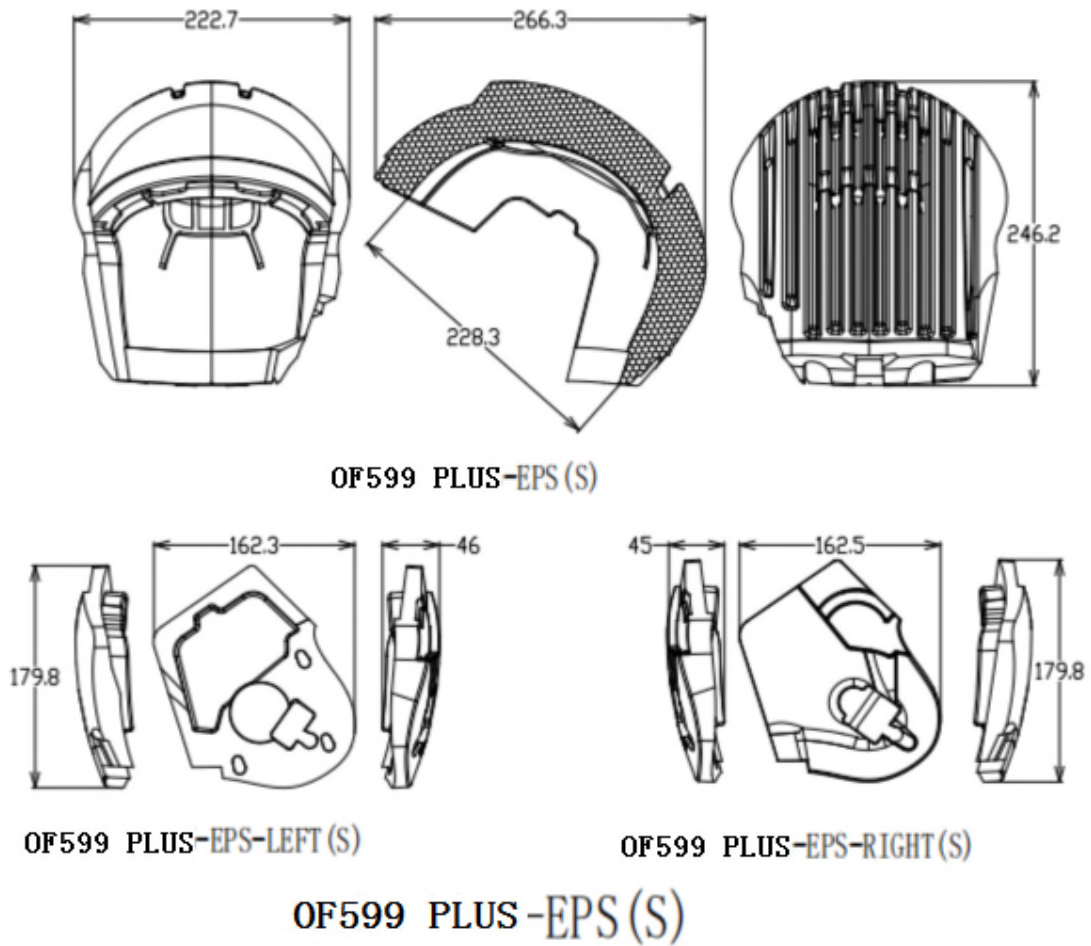
	Type	OF599 PLUS
	Page	13 of 26

R22 E1\*22R06/02\*301139\*00

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



Unit: mm

	<b>DRW.</b>	<b>OF599 PLUS-08</b>	<b>EPS details (For SIZE S)</b>
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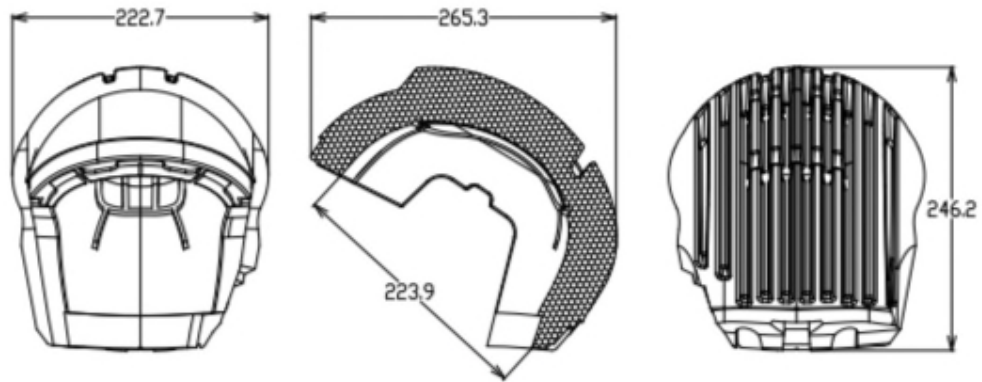
	Type	OF599 PLUS
	Page	14 of 26

R22 E1\*22R06/02\*301139\*00

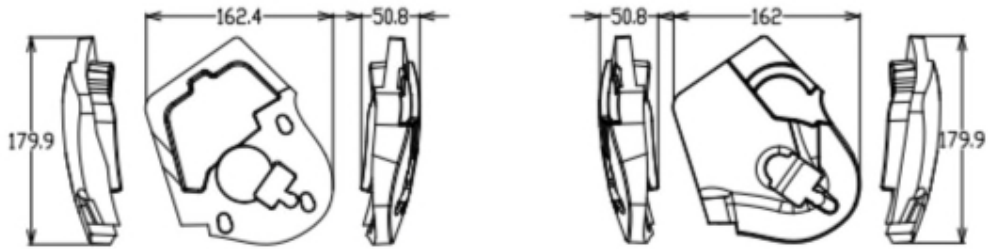
# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



OF599 PLUS-EPS (XS)



OF599 PLUS-EPS-LEFT (XS)

OF599 PLUS-EPS-RIGHT (XS)

OF599 PLUS-EPS (XS)

Unit: mm

DRW.	OF599 PLUS-09	EPS details (For SIZE XS)
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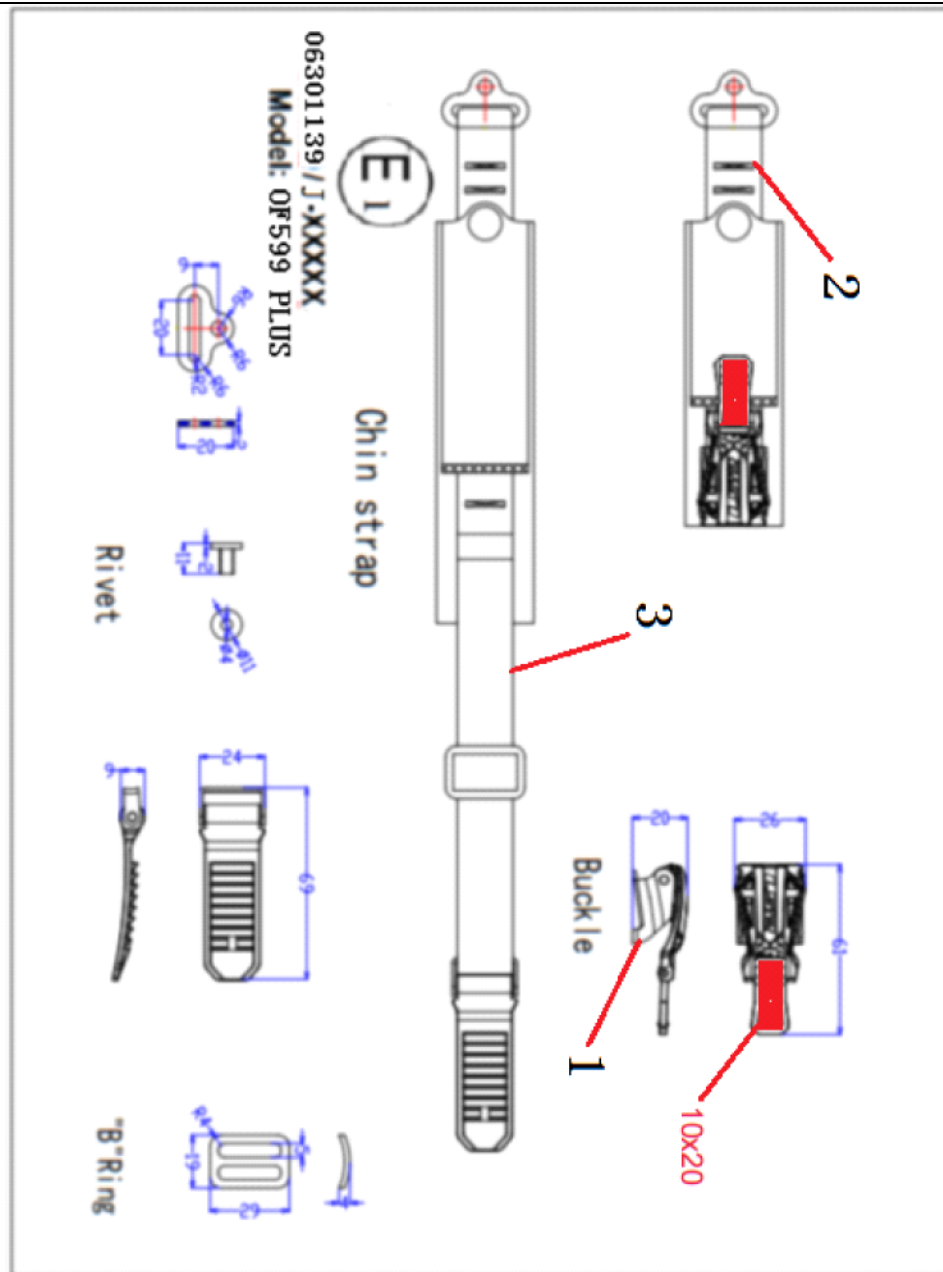
	Type	OF599 PLUS
	Page	15 of 26

R22 E1\*22R06/02\*301139\*00

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



Part No.	Subject or name	Material
1	Buckle	No.22 buckle
2	Sewing Line	Nylon
3	Chin strap	Nylon
	DRW.	OF599 PLUS-10
		Retention system (With No.22 buckle)

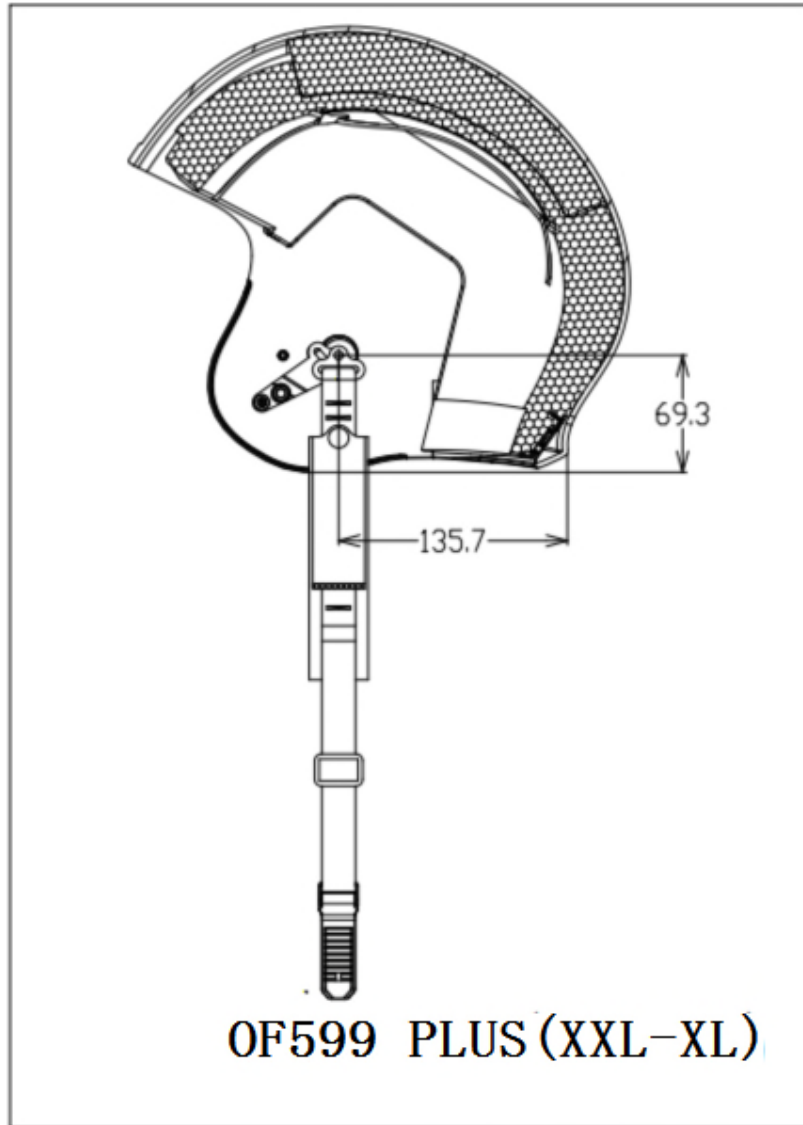
	Type	OF599 PLUS
	Page	16 of 26



# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



DRW.

OF599 PLUS-12

Retention system position  
(For SIZE XL-XXL)

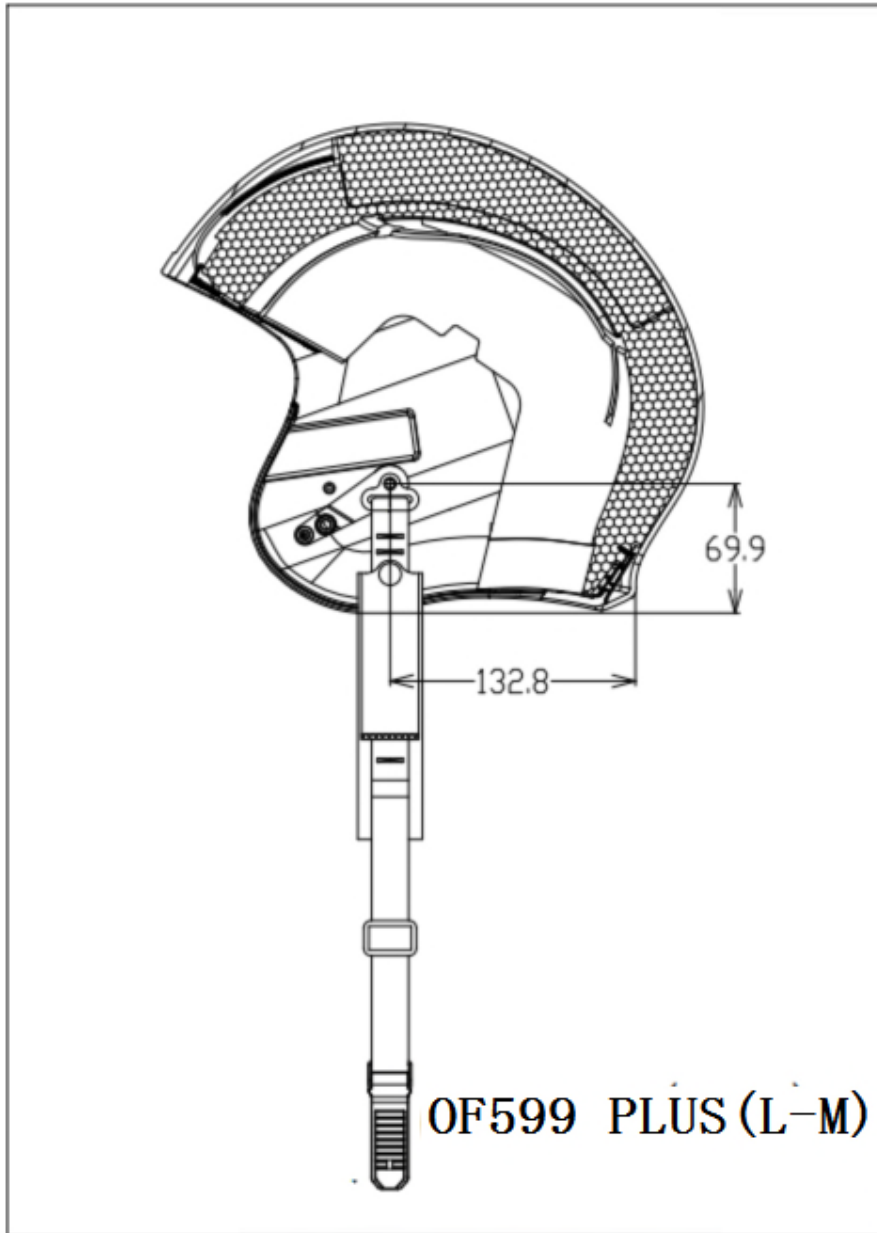
	Type	OF599 PLUS
	Page	18 of 26

R22 E1\*22R06/02\*301139\*00

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



Unit: mm

DRW.

OF599 PLUS-13

Retention system position  
(For SIZE L-M)

	Type	OF599 PLUS
	Page	19 of 26

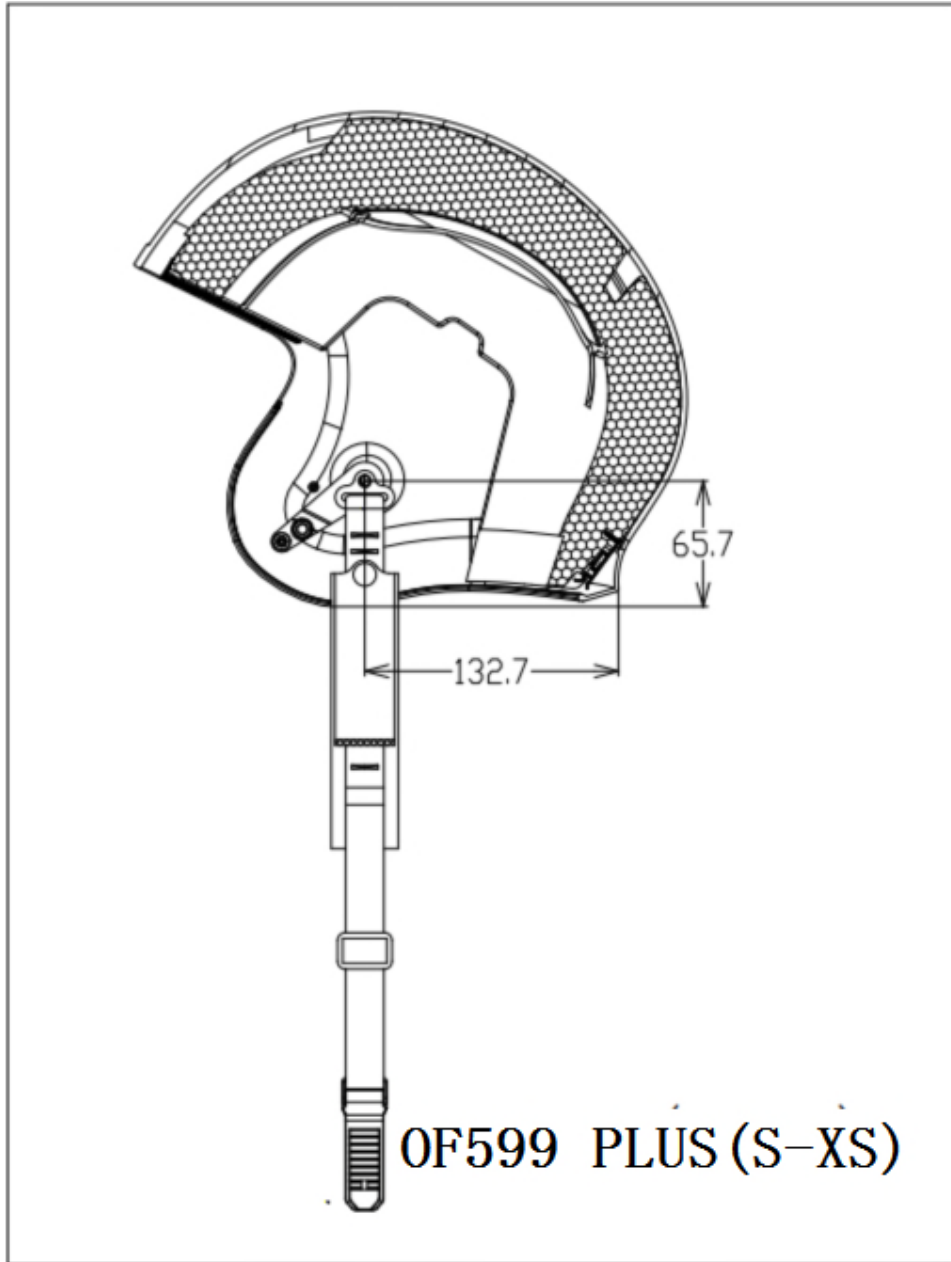
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# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



Unit: mm

DRW.

OF599 PLUS-14

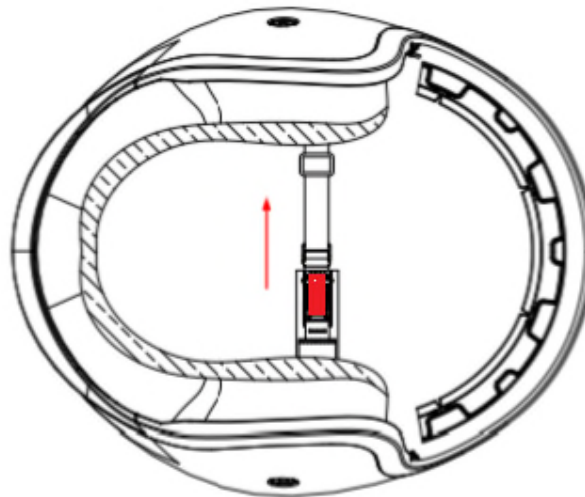
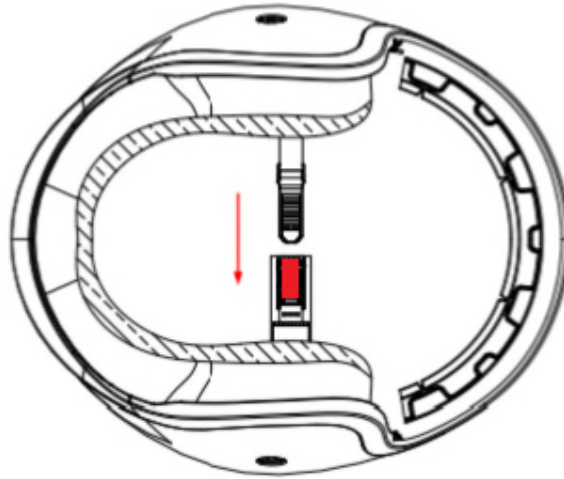
Retention system position  
(For SIZE S-XS)

	Type	OF599 PLUS
	Page	20 of 26

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



DRW.

OF599 PLUS-15

Retention system operation  
(With No.22 buckle)

Type OF599 PLUS

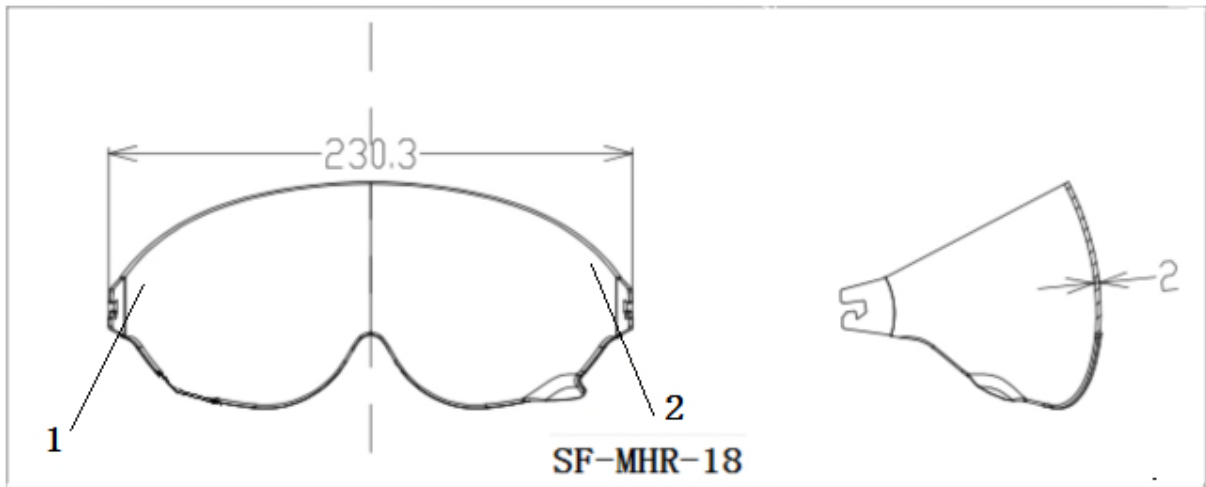
Page 21 of 26

R22 E1\*22R06/02\*301139\*00

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



LS2



066384

SF-MHR-18

Serial Number: XXXX

a = 8 mm min.

1

2

DRW.

OF599 PLUS-16

Drawing and details for Visor

Type OF599 PLUS

Page 22 of 26

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



06301139 /J-XXXX

**Model: OF599 PLUS**

a = 8 mm min.

DRW.

OF599 PLUS-17

Approval marking(s)

Type OF599 PLUS

Page 23 of 26

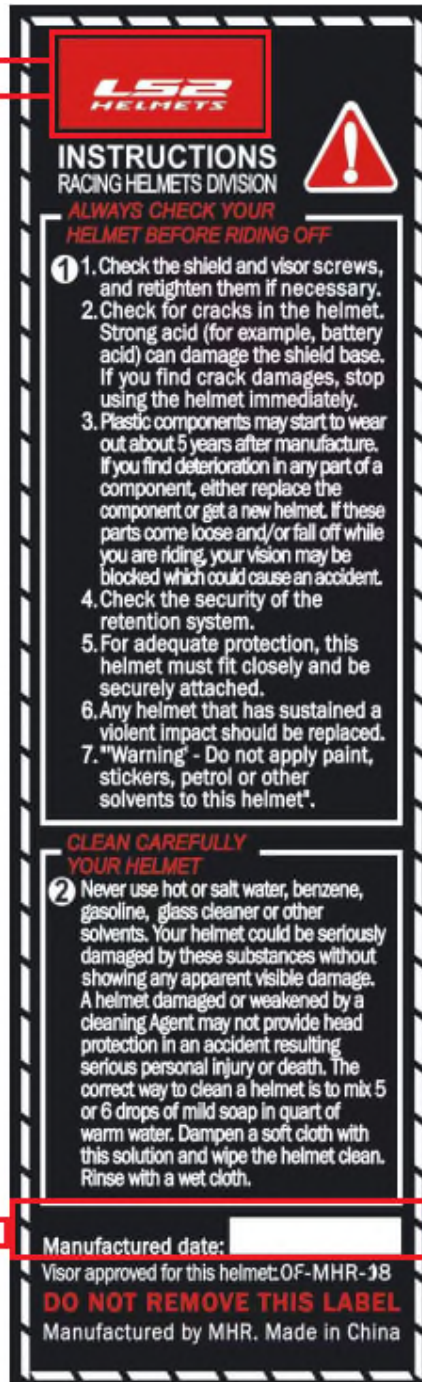
# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024

R22 E1\*22R06/02\*301139\*00

Trade Mark



Manufacture date

DRW.	OF599 PLUS-18	Label marking(s)
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	Type	OF599 PLUS
	Page	24 of 26

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024

Weight Size Model label : contains product weight and size.



DRW.

OF599 PLUS-19

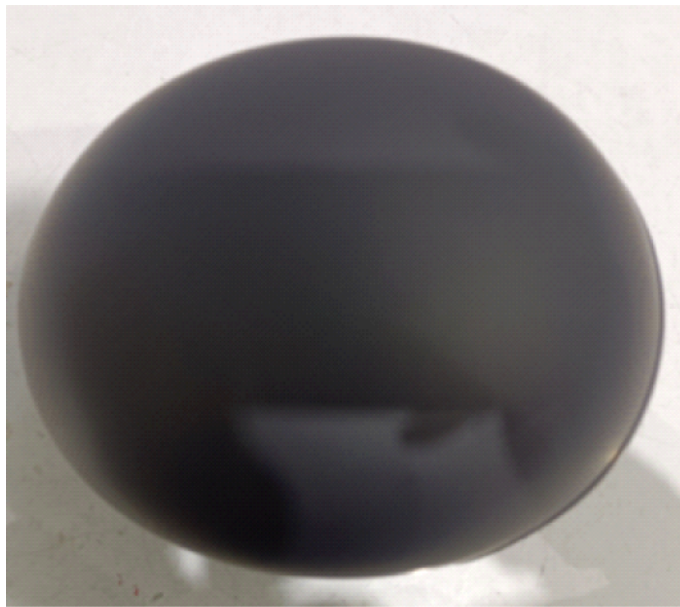
Label marking(s)

	Type	OF599 PLUS
	Page	25 of 26

# Jiangmen Pengcheng Helmets Ltd.

Information folder No. MHR-OF599 PLUS-00

Application date: January 01, 2024



DRW.

OF599 PLUS-20

Helmet assembly pictures

	Type	OF599 PLUS
	Page	26 of 26

R22 E1\*22R06/02\*301139\*00