




Repubblica di San Marino
Autorità per l'Omologazione
Republic of San Marino
Authority for Homologation

Via Consiglio dei Sessanta, 99
47891 Dogana - Repubblica di San Marino

Comunicazione
Communication

	Concernente ^{2/} Concerning ^{2/}	Il rilascio dell'omologazione <i>Approval granted</i> L'estensione dell'omologazione <i>Approval extended</i> Il rifiuto dell'omologazione <i>Approval refused</i> La revoca dell'omologazione <i>Approval withdrawn</i> La cessazione definitiva della produzione <i>Production definitively discontinued</i>
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of a type of protective helmet ~~without~~/with² one/more² visor type(s) pursuant to ECE Regulation No. 22

Omologazione N. <i>Approval No.</i>	E57*22R06/00*0015	Estensione N. <i>Extension No.</i>	00
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Marchio di omologazione <i>Approval mark</i>	<i>See information document No. M820-00</i>
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1. Trade mark:

MHX, LIVEHOOD,NOSS

2. Type:

Helmet type: M820

Commercial name(s): H602,NS-801

3. Sizes:

XS(53-54), S(55-56), M(57-58), L(59-60), XL(61-62), XXL(63-64)


4. Manufacturer's name: **Zhejiang Hengtai Motorcycle Fittings Co., Ltd.**
5. Address: Chaoyoubu Village, Lanxi City, Jinhua City, Zhejiang Province, China
6. If applicable, name of manufacturer's representative: Not Applicable
7. Address: Not Applicable
8. Brief description of helmet: The helmet is composed by:
Shell
Material used: ABS
Manufacture Process: By Injection
Border Join's Material: Plastic
Retention System
Chin Strap composed by double deck Nylon weaving strap
The retention system is equipped with a quick release mechanism
Accessories
Visor
9. ~~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)²:~~ Helmet with protective lower face cover (P)
10. ~~Type of visor or visors:~~ Type of visor fitted: 815-SP VISOR (E57*22R06/00*0014)
11. Brief description of visor or visors: Visor Type: 815-SP VISOR (E57*22R06/00*0014)
Material: PC
Net weight: 120 g
Geometrical Characteristics of the visor: See approval of visor

LIBERTAS

REPUBBLICA
DI SAN MARINO

12. Submitted for approval on: 22.05.2023
13. Technical service responsible for conducting approval tests: **AUTOMOTIVE TECHNICAL SERVICE S.r.l.**
Via Consiglio dei Sessanta, 99
47891 – DOGANA Repubblica di San Marino
14. Date of report issued by that service: 24.07.2023
15. Number of report issued by that service: ATS-SM-IR-22-06700
16. Comments: None
17. Approval **GRANTED/REFUSED/EXTENDED/WITHDRAWN²**
18. Place: DOGANA – Repubblica di San Marino
19. Date: 25.07.2023
20. Signature:




Ing. Marco CONTI
Direttore Generale
General Director

21. The following documents, bearing the approval number shown above, are available on request

(2) *Strike out what does not apply.*

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DI SAN MARINO

Allegato <i>Enclosure</i>			
Al certificato di omologazione ECE N. <i>To ECE approval certificate No.</i>		E57*22R06/00*00015*00	
Indice del fascicolo di omologazione <i>Index to the information package</i>			
Data <i>Date of issue</i>	25.07.2023	Data ultima modifica <i>Last amendment date</i>	--
1.	Clausole di garanzia e istruzioni sul diritto di presentare ricorso <i>Collateral clauses and instruction on right to appeal</i>		
2.	Rapporto(i) Finale di Ispezione N. <i>Inspection report(s) No.</i>	ATS-SM-IR-22-06700	Data <i>Date</i> 24.07.2023
3.	Scheda informativa N. <i>Information document No.</i>	M820-00	Data <i>Date</i> 22.05.2023
			Data ultima modifica <i>Last amendment date</i> --



Clausole di garanzia e istruzioni sul diritto di presentare ricorso

Clausole di garanzia

La produzione in serie deve essere esattamente conforme ai documenti di omologazione. Le variazioni di produzione in serie sono consentite solo con il consenso espresso dell'Autorità per l'Omologazione.

Le variazioni del nome della società, l'indirizzo e lo stabilimento di produzione, nonché una delle parti che hanno l'autorità alla consegna o eventuali rappresentanti nominati al momento del rilascio dell'omologazione, devono essere immediatamente comunicate all'Autorità per l'Omologazione. La violazione di queste regole può portare al ritiro dell'omologazione ed inoltre può essere legalmente perseguita.

L'omologazione decade se viene restituita o ritirata o se il tipo omologato non è più conforme ai requisiti di legge. La revoca può essere fatta se non esistono più i requisiti richiesti per il rilascio e la continuazione dell'omologazione, se il titolare dell'omologazione viola gli obblighi dettati dall'omologazione, anche nel caso in cui gli obblighi derivino dalle condizioni assegnate all'interno dell'omologazione, o se è accertato che il tipo approvato non è conforme ai requisiti di sicurezza del traffico e di tutela dell'ambiente.

L'Autorità per l'Omologazione può verificare la corretta applicazione della delega conferita rilasciata nella presente omologazione, in qualsiasi momento. In particolare, questo include la verifica della produzione, che sia conforme, nonché le misure di controllo di conformità della produzione. Per questo, possono essere presi dei campioni dalla produzione. I dipendenti o rappresentanti dell'azienda possono avere accesso senza ostacoli agli impianti di produzione e stoccaggio.

La delega conferita contenuta nella presente omologazione non è trasferibile. I diritti del marchio di terzi non sono interessati da questa omologazione.

Istruzione su diritto di ricorso

Questa omologazione è appellabile entro un mese dalla notifica. Il ricorso deve essere presentato per iscritto o come una domanda inviata all' - Via Consiglio dei Sessanta, 99 - 47891 Dogana - Repubblica di San Marino.

Collateral clauses and instruction on right to appeal

Collateral clauses

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 Authority for Homologation.

Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to deliver or authorized representative named when the approval was granted is to be immediately disclosed to the Authority for Homologation. 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 Authority for Homologation 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 Authority for Homologation 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 Authority for Homologation - Via Consiglio dei Sessanta, 99 - 47891 Dogana - Repubblica di San Marino.

Inspection Report No.: AT5-SM-IR-22-06700

of: 24/07/2023



Type: M820

Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.

Inspection Report

No. AT5-SM-IR-22-06700

Inspection concerning ~~vehicles-/~~ components with regard to:

**Uniform provisions concerning the approval of
protective helmets and their visors for drivers
and passengers of motor cycles and mopeds**

performed according to



ECE Regulation No. 22

as last amended by

06 series of amendments

of the Economic Commission for Europe

Approval status	
Number of approval	
ECE	E57*22R06/00*0015*00

Inspection Report No.: ATS-SM-IR-22-06700



of: 24/07/2023

Type: M820

Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.

0. General information

0.1. Make (trade name of manufacturer): MXH, LIVEHOOD,NOSS

0.2. Type: M820

0.2.1. Variant(s): Not Applicable

0.2.1. Commercial name(s): H602,NS-801

0.3. Name and address of manufacturer: **Zhejiang Hengtai Motorcycle Co., Ltd.**
Chaiyoubu Village, , Lanxi City, Jinhua City, Zhejiang Province, China

0.3.1. Name and address of manufacturer's authorized representative: Not Applicable

0.3.2. Production plant(s) address(es): **Zhejiang Hengtai Motorcycle Co., Ltd.** Chaiyoubu Village, , Lanxi City, Jinhua City, Zhejiang Province, China

0.4. No. of the information document: M820-00 Date: 22/05/2023

0.5. Position of the approval mark: On the helmet: Marked in a label sewn on the retention system chin strap

On the visor: On visor

On sunlight filter: --

1. TEST OBJECT

1.1 Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.

1.2 Make: black samples - without surface film M820

1.3 Type: See below points

1.4 Sizes:

1.5 Sample identification
(impact absorption test):
XXL- 1,
XXL- 2,
XXL- 3,
XXL-4,
XXL-5,
XXL-6,
XXL-7,

L-1,
L-2,
M-1,
M-2,
M-3,
M-4,
M-5
XS-1,
XS-2.



1.6 Type of protective helmet and lower face cover: (P) Full face with a detachable, movable or integral part of the helmet covering the lower part of the face to protect the chin

1.8 Helmet markings

- 1.8.1 Location of trade mark(s): Outer shell, different location depending on makers
- 1.8.2 Location of size : Marked on the rear part of the shell
- 1.8.3 Location of the approval mark: Marked in a label sewn on the retention system chin strap
- 1.8.4 Location of weight: Marked on the rear part of the shell

1.9 Technical description and materials

- 1.9.1 Shell: Material used: ABS
Manufacturing process: by injection
- 1.9.2 Border join of the shell: Composition: plastic
- 1.9.3 Protective padding: Composition: Expanded Polystyrene
Density: refer to Manufacturer's Information Document
- 1.9.4 Retention system
 - 1.9.4.1 Mechanism: Quick release mechanism (Micrometric)
 - 1.9.4.2 Chin strap Material: double deck Nylon weaving strap
 - 1.9.4.3 Comfort padding of the retention system: Composition: Terylene
Thickness: 10mm
 - 1.9.4.4 Anchorage system to the shell: By a metallic piece fitted to the internal part of the shell by a rivet
- 1.9.5 Visor: Not Applicable
- 1.9.6 Peak: Applicable / ~~Not Applicable~~
Detachable peak (optional)
- 1.9.7 Ventilations: Total number of ventilations: 3
 - 1.9.7.1 Positioning: Top, lower face cover and rear shell
- 1.9.8 Sunlight filter: ~~Applicable~~ / Not Applicable
- 1.9.9 Comfort padding
 - 1.9.9.1 Comfort tissue: Compound cloth
 - 1.9.9.2 Lateral packing: Compound cloth
 - 1.9.9.3 Lower face cover: EPS

2 Test equipment

The measurement equipment used was in compliance with the test requirements Applicable and Conform / ~~Not Conform~~

3 General specifications and arrangement of the helmet (according to ECE Regulation No. 22)

3.1 Specifications with regard to basic construction according to ECE R22 par. 6.1.: Conform / ~~Not Conform~~

3.2 Specifications with regard to helmet equipment according to ECE R22 par. 6.2.: Conform / ~~Not Conform~~

3.2.1. The protective helmet may be fitted with:

- Ear flaps and neck curtain Not Applicable
- Detachable peak Not Applicable
- Visor Applicable 
- Additional sun shield Not Applicable
- Electronic equipment or accessories Not Applicable

3.2.2. Lower face cover: (P) Full face with a detachable, movable or integral part of the helmet covering the lower part of the face to protect the chin

3.2.3. No chin protection warning marking (only for "NP" types): ~~Conform~~ / Not Applicable



Note: this symbol or indication must be visible and extend over at least 2 cm²

3.3. Specifications with regard to incorporation or fitting of components and devices in the protective helmet according to ECE R22 par. 6.3.: Conform / ~~Not Conform~~

3.4. Specifications with regard to the extent of the protection according to ECE R22 par. 6.4.: Conform / ~~Not Conform~~

3.5. Specifications with regard to wearer's ability to hear, temperature in the space between head and the shell, ventilation holes according to ECE R22 par. 6.5.: Conform / ~~Not Conform~~
Non affect the wearer's ability to hear
Presence of 3 ventilation holes
Presence of visor and respective fixings

3.6.	Specifications with regard to projections and irregularities in the outer surface according to ECE R22 par. 6.6.:	Conform / Not Conform
3.7.	Specifications with regard to external projections according to ECE R22 par. 6.7.:	Conform / Not Conform
3.8.	Specifications with regard to the absence of inward-facing sharp edges according to ECE R22 par. 6.8.:	Conform / Not Conform inward-facing sharp edges covered with padding
3.9.	Specifications with regard to helmet components assembly according to ECE R22 par. 6.9.:	Conform / Not Conform
	The various components of the protective helmet, shall be so assembled that they are not liable to become easily detached as a result of an impact.	Conform, No components of the protective helmet detached during the impact tests
	In the case of visor and movable or detachable lower face cover, only when in not protective position, the detachment is acceptable provided that it is complete and not to cause possible injuries to the user.	Not Applicable (R)
3.10.	Specifications with regard to protection from abrasion of the retention system according to ECE R22 par. 6.10.:	Conform / Not Conform
3.11.	Specifications with regard to the retention system and its related components according to ECE R22 par. 6.11.:	Conform / Not Conform retention system secured under the lower jaw
	Chin-strap:	
3.11.1	the strap shall be not less than 20 mm wide under a load of 150 N ± 5 N applied under the condition according to ECE R22 paragraph 7.6.2 (dynamic test)	Conform / Not Conform
3.11.2	Chin strap does not include a chin-cup	Conform / Not Conform No chin cup present
3.11.3	Chin strap fitted with a device to adjust and maintain tension in the strap	Conform / Not Conform
3.11.4	Position of the chin strap fastening and tensioning devices	Chin strap fastening and tensioning devices positioned according to ECE R22, p.6.11.4
3.11.5	Roller buckle or double-D ring fastening devices: are fitted with a pulling flap with red colour and minimum dimensions of 10 x 20 mm.	Conform / Not Conform Double-D ring with pulling flap with red levers to release retention system
3.11.6	Free end Retaining System	Conform / Not Conform


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of: 24/07/2023



Type: M820

Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.

3.11.7	Releasing Pulling Flap	Conform / Not Conform
3.11.8	Quick release mechanism	Conform / Not Conform
3.11.9	Retention system behaviour shall remain closed when the tests described according to ECE R22, par. 7.3., 7.6. and 7.7.	Conform / Not Conform
3.11.10	Buckle protected against incorrect manipulation	Conform / Not Conform
3.12.	Specifications with regard to the detachable or movable lower face cover according to ECE R22 par. 6.12:	Conform / Not Conform Lower face cover fixed with the shell
3.13.	Specifications with regard to the helmet materials according to ECE R22 par. 6.13:	Conform / Not Conform
3.14.	Specifications with regard to helmet status after test according to ECE R22 par. 6.14:	Conform / Not Conform
3.15.	Specifications with regard to peripheral vision according to ECE R22 par. 6.15:	Conform / Not Conform 
3.16.	Specifications with regard to visors according to ECE R22 Par. 6.16:	See approval E57*22R06/00*0014
3.17.	Specifications with regard to sun shield according to ECE R22 par. 6.17:	Not Applicable
3.18.	Specifications with regard to conspicuity marking according to ECE R22 par. 6.18:	Not Applicable

Inspection Report No.: ATS-SM-IR-22-06700

of: 24/07/2023



Type: M820

Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.

4. Impact absorption test

Applicable and Conform / ~~Not Conform~~

The presented test results refer only to the tested sample.
Standard:

Un/ECE R22, Point 7.3.5

Conditioning:	Anvils ^a
Ambient	Flat and kerbstone
Heat	Kerbstone ^b
Low temperature ^c	Flat ^b
Ultraviolet radiation and moisture	Flat or kerbstone (to be selected by the laboratory)

Type of test	Acceleration	HIC
Std Linear Impact Std	≤ 275 g	≤2 400
Linear Extra Point	≤ 275 g	≤2 400
Linear Hi Energy	≤ 275 g	≤2 880
Linear Low Energy	≤180 g	≤1 300

Un/ECE R22, Point 7.3.1.4

Impact speed	Acceleration
Std Linear Impact Std	7.5 (+ 0.15/- 0.0) m/s for both flat steel anvil and kerbstone anvil 6.0 (+ 0.15/ -0.0) m/s for tests at point S.
Linear Extra Point	7.5 (+ 0.15/- 0.0) m/s for both flat steel anvil and kerbstone anvil
Linear Hi Energy	8.2 (+ 0.15/- 0.0) m/s, flat anvil
Linear Low Energy	6.0 (+ 0.15/ -0.0) m/s, for both flat steel anvil and kerbstone anvil

Temperature: 25°C

Shock absorbing mat.: EPS


No.	Helmet size	Head size	Conditioning	Anvil shape	Energy Impact	Impact point	Speed (m/s)	Results	
								AC _(g)	HIC
XXL-1	(63-64)	64cm	LOW Temperature	FLAT	Linear Impact Std	B	7,62	161,8	1342
						X	7,64	140,6	835
						P	7,63	212,0	2290
						R	7,64	103,7	428
					S-point Energy	S	6,01	74,9	170
XXL-2	(63-64)	64cm	HEAT	KERB	Linear Impact Std	B	7,56	162,3	1254
						X	7,63	269,7	1613
						P	7,62	159,8	1499
						R	7,61	98,7	324
XXL-3	(63-64)	64cm	Artificial Ageing	FLAT	Linear Impact Std	B	7,53	139,0	1226,3
						X	7,59	197,8	1404
						P	7,65	197,0	1693
						R	7,65	85,1	283
XXL-4	(63-64)	64cm	AMBIENT Temp. and U.R.50%	KERB	Linear Impact Std	B	7,62	138,9	987
						X	7,65	197,7	1130
						P	7,64	162,4	1303
						R	7,63	216,4	1132
XXL-5	(63-64)	64cm	AMBIENT Temp. and U.R.50%	KERB	Hight Energy	B	8,31	155,4	1024
						X	8,24	269,6	1687
						P	8,21	168,3	1463
						R	8,21	224	1271
XXL-6	(63-64)	64cm	AMBIENT Temp. and U.R.50%	KERB	Hight Energy	B	6,00	105,3	491
						X	6,00	145,4	783
						P	6,00	128,5	805
						R	6,00	56,0	135
XXL-7	(63-64)	64cm	AMBIENT Temp. and U.R.50%	KERB	Extra point	BX	7,61	158,4	1110
						XF	7,56	144,9	818
						PR	7,58	162,0	1181



No.	Helmet size	Head size	Conditioning	Anvil shape	Energy Impact	Impact point	Speed (m/s)	Results	
								Ac(g)	HIC
L-1	(59-60)	59cm	LOW Temperature	FLAT	Linear Impact Std	B	7,65	151,8	1153
						X	7,63	158,2	1068
						P	7,60	160,0	1433
						R	7,63	61,8	213
					S-point Energy	S	6,08	78,0	238
L-2	(59-60)	59cm	HEAT	KERB	Linear Impact Std	B	7,63	110,1	723
						X	7,65	125,8	744
						P	7,65	144,8	1133
						R	7,63	106,6	572

No.	Helmet size	Head size	Conditioning	Anvil shape	Energy Impact	Impact point	Speed (m/s)	Results	
								Ac(g)	HIC
M-1	(57-58)	57cm	LOW Temperature	FLAT	Linear Impact Std	B	7,59	187,6	1687
						X	7,62	178,1	1391
						P	7,59	183,2	1420
						R	7,62	94,2	239
					S-point Energy	S	6,00	79,0	273
M-2	(57-58)	57cm	LOW Temperature	KERB	Linear Impact Std	B	7,50	102,8	395
						X	7,61	192,2	1497
						P	7,56	173,3	1547
						R	7,58	84,4	358
M-3	(57-58)	57cm	AMBIENT Temp. and U.R.50%	KERB	Hight Energy	B	8,26	189,1	1796
						X	8,21	192,2	1497
						P	8,20	173,2	1547
						R	8,20	84,4	358
M-4	(57-58)	57cm	AMBIENT Temp. and U.R.50%	KERB	Low Energy	B	6,02	102,8	395
						X	6,15	116,0	565
						P	6,13	133,3	784
						R	6,14	53,2	121
M-5	(57-58)	57cm	AMBIENT Temp. and U.R.50%	KERB	Extra point	XPR	7,64	127,8	1025
						XF	7,63	187,5	1411
						PR	7,63	259,4	1447

No.	Helmet size	Head size	Conditioning	Anvil shape	Energy Impact	Impact point	Speed (m/s)	Results	
								Ac(g)	HIC
XS-1	(53-54)	54mm	LOW Temperature	FLAT	Linear Impact Std	B	7,59	167,1	1449
						X	7,50	140,5	876
						P	7,61	185,2	1606
						R	7,59	84,2	264
					S-point Energy	S	6,13	95,2	324
XS-2	(53-54)	54mm	HEAT	KERB	Linear Impact Std	B	7,53	160,5	1383
						X	7,60	137,5	922
						P	7,64	165,8	1359
						R	7,62	49,1	110

- 4.1 Impact absorption test result: Conform / ~~Not Conform~~ 
- 4.1 Tests of the conditioned helmets: carried out in not more than 5 minutes after taken from the condition chamber, according to ECE R22 p. 7.3.1.4 Conform / ~~Not Conform~~
- 4.2 Tests at point S shall be carried out after tests at points B, X, P and R, in sequence, according to ECE R22 p. 7.3.1.4 Conform / ~~Not Conform~~
- 4.3 The helmet shall not become detached from the headform. Conform / ~~Not Conform~~
- 4.4 The protective helmet not exhibit any breakage or deformation dangerous to the wearer, according to ECE R22,6.14 . Conform / ~~Not Conform~~
No cracks near impact points
e.g.: visor sunshield and shell significant cracks or any part partially detached (spoiler, lower face cover, accessories) that can hurt the user while he's rolling on the road



5. Test for projections and surface friction

5.1 Test carried out according to method B

No.	Helmet size	Head size	Conditioning	Test results	
				Projections	Friction
M-6	57-58cm	57mm	Ambient Temperature	Pass	Pass

5.2 The protective helmet not exhibit any breakage or deformation dangerous to the wearer, according to ECE R22,6.14 . Conform

e.g.: visor sunshield and shell significant cracks or any part partially detached (spoiler, lower face cover, accessories) that can hurt the user while he's rolling on the road

6. Rigidity Test

6.1 Results

Helmet		Direction	Test Result	
No.	Size		Max deformation ≤ 40mm	Residual deformation ≤ 15 mm
XL - 1	61cm	transversal	18.1	5.0
XL - 2	61cm	longitudinal	20.1	6.2

6.2 The protective helmet not exhibit any breakage or deformation dangerous to the wearer, according to ECE R22,6.14 . Conform

e.g.: visor sunshield and shell significant cracks or any part partially detached (spoiler, lower face cover, accessories) that can hurt the user while he's rolling on the road

7. Retention system dynamic test

7.1 Results

No.	Helmet size	Head size	Displacement	
			Dynamic ≤ 35 mm	Residual ≤ 25 mm
XS-3	53/54cm	54mm	25 mm	18 mm

7.2 The protective helmet not exhibit any breakage or deformation dangerous to the wearer, according to ECE R22,6.14 . Conform

e.g.: visor sunshield and shell significant cracks or any part partially detached (spoiler, lower face cover, accessories) that can hurt the user while he's rolling on the road

8. Retention (detaching) test

8.1 Results

No.	Helmet size	Head size	Turned angle measured (≤ 30°)
XS-4	53/54cm	54mm	20.6

8.2 The protective helmet not exhibit any breakage or deformation dangerous to the wearer, according to ECE R22,6.14 . Conform

e.g.: visor sunshield and shell significant cracks or any part partially detached (spoiler, lower face cover, accessories) that can hurt the user while he's rolling on the road

9. Retention system test

9.1 Chin strap microslip test

Test frequency: 1 Hz

Slippage through the grip:

3 mm ≤ 10 mm
Conform / ~~Not Conform~~

9.3 Chin strap resistance to abrasion test

9.3.1. Result of an application of a tensile strain of 3 kN over the chin strap after wearing process

Not Applicable
Note: The slippage of the strap in the micro-slip test is 3 ≤ 5 mm

9.4 Retention system test relying on quick-release mechanisms

9.4.1 Inadvertent release by pressure

The system does not release under the pressure of a rigid sphere of 100 mm diameter, with a force of 100 N.

Conform / ~~Not Conform~~

9.4.2 Ease of release

The opening force is less than 30 N when the system is loaded with 150 N, after the application of an additional force of 350 N.

Conform / ~~Not Conform~~

9.4.3 **Durability of quick-release mechanisms**

Result of the application of 2 kN of tensile strain over the mechanism after the wearing process (cycling after salt spray conditioning):

Conform / ~~Not Conform~~
The mechanism does neither fracture nor disengage
After the load application, the mechanism operates properly

10. Oblique impact test

Helmets tested in accordance with the method specified in ECE R22 Annex 7

Conform / ~~Not Conform~~

Result: Pass - head form shall not exhibit any resonant frequencies below 2 000 Hz

11	Visor tests	See approval E57*22R06/00*0014
	Sampling and use of samples	N/A
	Prior to any type of further conditioning for mechanical or optical test, each visor shall be subject to the ultraviolet conditioning in accordance with the provision of paragraph 7.2.4.1 to ECE Regulation No. 22	N/A
11.1	Mechanical characteristics	
	The 7 visors tested according to ECE Regulation No. 22, par. 7.8.2. All visors are not shattered after the impact with the metal punch. After the high speed particle test the visors do not show any fractures or deformations or failures on the housing	N/A
11.2	Optical characteristics and scratch resistance	
	3 visors tested according to ECE Regulation No. 22, par. 7.8.3 For each sample. After abrasion, the light diffusion is $\leq 20\%$	N/A
11.3	Field of vision of the visor	
	1 visor tested according to ECE Regulation No. 22, par. 6.16.3	N/A
11.4	Luminous Transmittance	
	3 visors tested according to ECE Regulation No. 22, par. 7.8.3.2.1.1 and Annex 11. All samples have luminous transmittance $\geq 80\%$	N/A
11.5	Light diffusion	
	3 visors tested according to ECE Regulation No. 22, par. 7.8.3.2.1.2. For each sample, the light diffusion is $\leq 2.5\%$	N/A
11.6	Recognition signal lights	N/A
	3 visors tested according to ECE Regulation No. 22, par. 6.16.3.6. For each sample, the visual attenuation quotient is	
	≥ 0.8 for red signal light;	--
	≥ 0.6 for yellow signal light;	--
	≥ 0.6 for green signal light;	--
	≥ 0.6 for blue signal light	--

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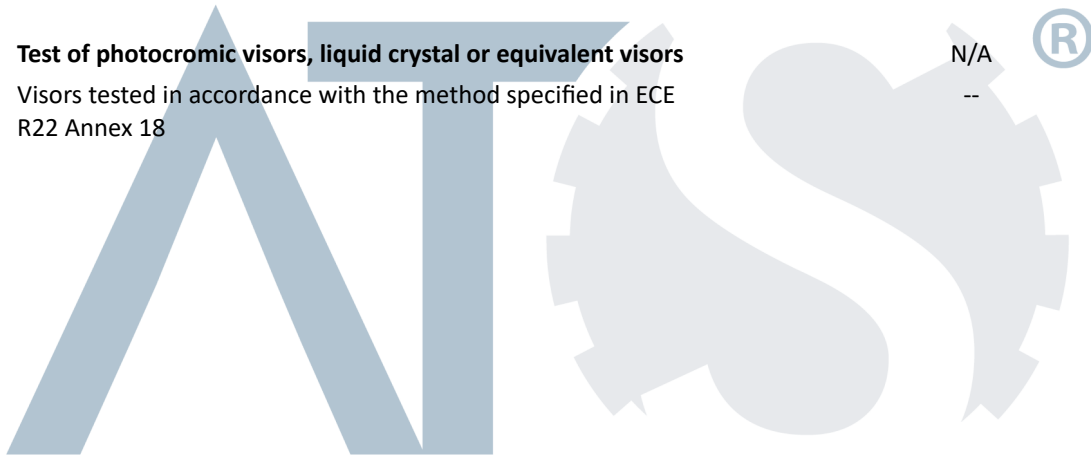


of: 24/07/2023

Type: M820

Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.

11.7	Spectral transmittance	N/A
	3 visors tested according to ECE Regulation No. 22, par. 6.16.3.7 For each sample, the spectral transmittance is ≥ 0.2 luminous transmittance	
11.8	Refractive powers	N/A
	3 visors tested according to ECE Regulation No. 22, par. 6.16.3.8 For Each sample, spherical effect is included in range $[-0.120, 0.120](m^{-1})$, astigmatic effect is $\leq 0.120 (m^{-1})$, prismatic power horizontal base out $\leq 1 (cm/m)$, prismatic power horizontal base in $\leq 0.25 (cm/m)$, prismatic power vertical ≤ 0.25	
11.9	Mist retardant visor (opt.)	N/A
	3 visors tested according to ECE Regulation No. 22, par. 6.16.3.9 (and Annex 16)	--
12.	Test of photocromic visors, liquid crystal or equivalent visors Visors tested in accordance with the method specified in ECE R22 Annex 18	N/A --



Inspection Report No.: ATS-SM-IR-22-06700



of: 24/07/2023

Type: M820

Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.

5 Other information

Place of inspection: Chaiyoubu village, Lanxi, JinHua City, Zhejiang province, China

Date of inspection: 22.05.2023

Manufacturer's representative: Ms. Lilian Zhang

Remarks: None

5.1 Appendix

1. List of modifications
2. Test Photo (s)



5.2 Enclosures

Information Folder M820-00

Inspection Report No.: AT5-SM-IR-22-06700



of: 24/07/2023

Type: M820

Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.

6. Statement of conformity

The information document as given in paragraph 0.4 and the type described there are in compliance with the test specification mentioned above.




With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved (see paragraph 1).

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025 and EN ISO/IEC 17020 / R22-06 ECE/UN.

The inspection report comprises pages 1 to 22.

It shall not be reproduced except in full, without written approval of the laboratory.

Dogana, Repubblica di San Marino, 24/07/2023

<i>Number of project and protocol</i>	Automotive Technical Service S.r.l. <i>Inspector</i>	Automotive Technical Service S.r.l. <i>Deputy Technical Director</i>	 
			

Inspection Report No.: ATS-SM-IR-22-06700

of: 24/07/2023



Type: M820

Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.

Appendix 1

List of modifications

Applicable/ Not Applicable

Appendix 1

More details for application of

Date :

Correction of : -

Modification of : -

Addition of : -

Deletion of : -



Appendix 2

Test Photo(s)

Appendix 2

B-Impact Point		X-Impact Point																									
P-Impact Point		R-Impact Point																									
	<table border="1"> <tr><td>Size:</td><td>XXL</td></tr> <tr><td>Weight:</td><td>1500.01 g</td></tr> <tr><td>Manufactur. Date:</td><td>22 May 2023</td></tr> <tr><td>Lab. Temperature:</td><td>25 deg C</td></tr> <tr><td>Lab. Humidity:</td><td>60 %</td></tr> <tr><td>Selected Filter Frequency:</td><td>CFC 1000</td></tr> <tr><td>Max. Peak G's authorize:</td><td>275 G</td></tr> <tr><td>Acc. sensitivity (axis X):</td><td>10.46 mV/G</td></tr> <tr><td>Acc. sensitivity (axis Y):</td><td>10.36 mV/G</td></tr> <tr><td>Acc. sensitivity (axis Z):</td><td>10.21 mV/G</td></tr> <tr><td>Drop mass assembly:</td><td>6.179 kg</td></tr> <tr><td>Time gate flag height:</td><td>25.40 mm</td></tr> </table>			Size:	XXL	Weight:	1500.01 g	Manufactur. Date:	22 May 2023	Lab. Temperature:	25 deg C	Lab. Humidity:	60 %	Selected Filter Frequency:	CFC 1000	Max. Peak G's authorize:	275 G	Acc. sensitivity (axis X):	10.46 mV/G	Acc. sensitivity (axis Y):	10.36 mV/G	Acc. sensitivity (axis Z):	10.21 mV/G	Drop mass assembly:	6.179 kg	Time gate flag height:	25.40 mm
Size:	XXL																										
Weight:	1500.01 g																										
Manufactur. Date:	22 May 2023																										
Lab. Temperature:	25 deg C																										
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Drop mass assembly:	6.179 kg																										
Time gate flag height:	25.40 mm																										
S-Impact Point	Results graph																										

Test Photo(s)

Appendix 2



Retention detaching test



Results



Retention system dynamic test



Results

Zhejiang Hengtai Motorcycle Fittings Co., Ltd.	Information Folder No. M820-00	Extension No.:00
	Date of First Issue: 22/05/2023	Type:M820
	Date of Extension Issue: --	
Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.		
R22.06/ECE TYPE-APPROVAL OF PROTECTIVE HELMETS AND THEIR VISORS FOR DRIVERS AND PASSENGERS OF MOTORCYCLES AND MOPEDS		

INFORMATION DOCUMENT

No. M820-00

**R22.06 ECE TYPE-APPROVAL OF PROTECTIVE HELMETS
AND THEIR VISORS FOR DRIVERS AND PASSENGERS
OF MOTORCYCLES AND MOPEDS**

Application for Type: M820

Total number of pages: 13

Date: 22/05/2023

Zhejiang Hengtai Motorcycle Fittings Co., Ltd.	Information Folder No. M820-00	Extension No.:00
	Date of First Issue: 22/05/2023	Type:M820
	Date of Extension Issue: --	
Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.		
R22.06/ECE TYPE-APPROVAL OF PROTECTIVE HELMETS AND THEIR VISORS FOR DRIVERS AND PASSENGERS OF MOTORCYCLES AND MOPEDS		

INDEX OF DOCUMENTATION

INFORMATION DOCUMENT No. M820-00	1
1 GENERAL INFORMATION	3
2 DESCRIPTION OF THE HELMET / SHELL / RETENTION SYSTEM	4
3 SHELL	4
4 RETENTION SYSTEM	5
5 PROTECTIVE PADDING	6
6 COMFORT PADDING	7
7 OTHER CHARACTERISTICS	7
8 ACCESSORIES	8
9 VISOR Not applicable (without visor)	8
10 GENERAL VIEWS OF THE HELMET AND APPROVAL MARK	9
11 DRAWINGS OF THE HELMET	10
12 FAC SIMILE OF APPROVAL MARK	11
13 DRAWINGS OF THE RETENTION SYSTEM	12
14 DRAWINGS OF EPS	13

Zhejiang Hengtai Motorcycle Fittings Co., Ltd.	Information Folder No. M820-00	Extension No.:00
	Date of First Issue: 22/05/2023	Type:M820
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Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.		
R22.06/ECE TYPE-APPROVAL OF PROTECTIVE HELMETS AND THEIR VISORS FOR DRIVERS AND PASSENGERS OF MOTORCYCLES AND MOPEDS		

1 GENERAL INFORMATION

1.1 Make(s) (Trade Mark(s)): MHX, LIVEHOOD, NOSS

1.2 Type: M820

1.2.1 Commercial description(s): H602, NS801

1.3 Variant(s) / Version(s): Not Applicable

1.4 Name and address of Manufacturer: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.
Chaiyoubu Village, Lanxi City, Jinhua City, Zhejiang
Province, China

1.5 Name and address of Assembly Plant: Zhejiang Hengtai Motorcycle Fittings Co., Ltd.
Chaiyoubu Village, Lanxi City, Jinhua City, Zhejiang
Province, China

1.6 If any, name and address of Manufacturer's authorized Representative: ZHEJIANG HENGXIN
MOTORCYCLE FITTINGS CO.,LTD Add:Chaiyoubu Village, Lanxi City, Jinhua City,
Zhejiang Province,China

1.7 Location and method of affixing of the International ECE approval mark:

Helmet: Marked in a label sewn on the retention system chin strap

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R22.06/ECE TYPE-APPROVAL OF PROTECTIVE HELMETS AND THEIR VISORS FOR DRIVERS AND PASSENGERS OF MOTORCYCLES AND MOPEDS		

2 DESCRIPTION OF THE HELMET / SHELL / RETENTION SYSTEM

- 2.1 **Type of protective helmet with / ~~without one / more~~ visor type(s):** 815-SP VISOR
(E57*22R06/00*0014)
- 2.2 Type of lower face cover:
- with protective lower face cover ("P")**
~~without lower face cover ("J")~~
~~with non-protective lower face cover ("NP")~~
- 2.3 Sizes: XS(53-54), S(55-56), M(57-58), L(59-60), XL(61-62), XXL(63-64)

3 SHELL

- 3.1 Material used: ABS
- 3.2 Manufacture process: By injection
- 3.3 Composition of the border join on the Shell:Plastic
- 3.4 Ventilations: 3
- 3.4.1 Positioning: Top, lower face cover and rear shell

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R22.06/ECE TYPE-APPROVAL OF PROTECTIVE HELMETS AND THEIR VISORS FOR DRIVERS AND PASSENGERS OF MOTORCYCLES AND MOPEDS		

4 RETENTION SYSTEM

4.1 Chin strap

4.1.1 Material: Double Deck Nylon weaving strap

4.1.2 Width: 22 mm

4.2 Retention system: Quick release mechanism(Micrometric)

4.3 Comfort padding of the retention system:

4.3.1 Composition: Terylene

4.3.2 Thickness: 10mm

4.4 Anchorage system to the shell: By a metallic piece fitted to the internal part of the shell by a rivet

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5 PROTECTIVE PADDING

5.1 Composition: Expanded polystyrene

5.2 Density: See Table Below

Zone	Sizes	Density
Main	All Sizes	55±2kg/m ³
Lower face cover	All Sizes	60±2kg/m ³
P point piece	All Sizes	25±2kg/m ³
Side part	L,XL ,XXL	90±2kg/m ³
	XS,S,M	80±2kg/m ³

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6 COMFORT PADDING

6.1 Composition of:

6.2 Comfort tissue: Compound cloth

6.3 Lateral packing: Compound cloth

6.3.1 Lower face cover: ---

7 OTHER CHARACTERISTICS

7.1 Markings:

7.1.1 Location of:

7.1.1.1 Make: Outer shell

7.1.1.2 Weight: Rear part of the shell

7.1.1.3 Size: Rear part of the shell

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8 ACCESSORIES

8.1 Peak: Not Applicable

8.2 Visor: 815-SP VISOR (E57*22R06/00*0014)

8.3 Sunlight filter: Not Applicable

9 VISOR

9.1 Visor Type: 815-SP VISOR (E57*22R06/00*0014)

9.2 Material of Visor: PC

9.3 Net Weight: 120 g

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10 GENERAL VIEWS OF THE HELMET AND APPROVAL MARK

FRONT VIEW	REAR VIEW	
		
<th style="text-align: center;">SIDE VIEW</th>		SIDE VIEW
		

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11 DRAWINGS OF THE HELMET



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R22.06/ECE TYPE-APPROVAL OF PROTECTIVE HELMETS AND THEIR VISORS FOR DRIVERS AND PASSENGERS OF MOTORCYCLES AND MOPEDS		

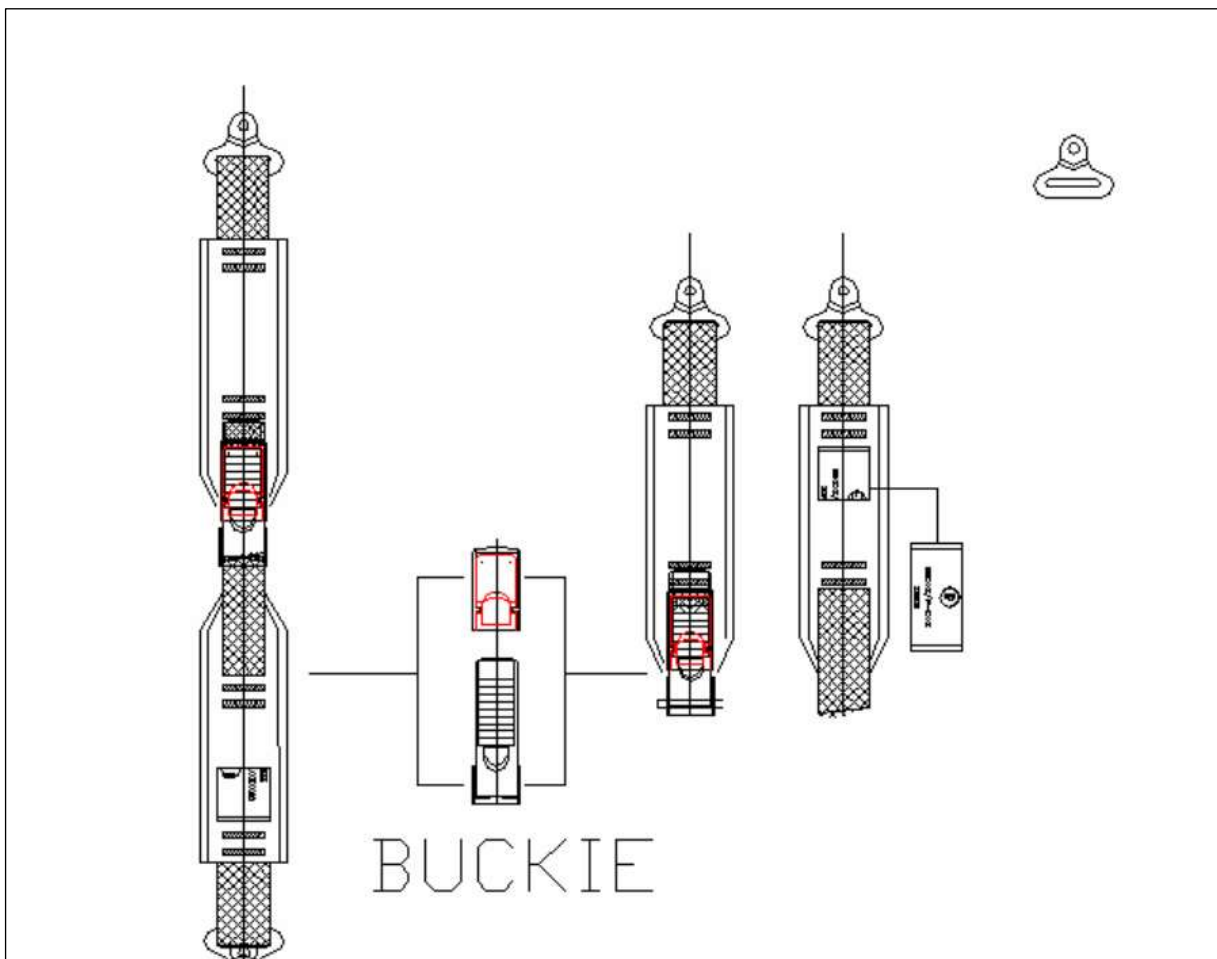
12 FAC SIMILE OF APPROVAL MARK

Approval mark for a protective helmet ~~without or~~ with one ~~or more~~ type of visor

HELMET - APPROVAL MARK
 <p style="font-size: 2em; font-weight: bold; margin: 10px 0;">06 XXXX/P – YYYY</p> <p style="font-size: 1.2em; font-weight: bold; margin: 0 0 10px 0;">Model: AAAA</p> <p>Where:</p> <p><u>a</u> ≥ 8mm</p> <p><u>06 XXXX/P</u>: Refers to series of amendments, the approval number and the type of helmet</p> <p><u>YYYY</u>: is the serial number</p> <p><u>AAAA</u>: is the commercial description</p>

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R22.06/ECE TYPE-APPROVAL OF PROTECTIVE HELMETS AND THEIR VISORS FOR DRIVERS AND PASSENGERS OF MOTORCYCLES AND MOPEDS		

13 DRAWINGS OF THE RETENTION SYSTEM



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R22.06/ECE TYPE-APPROVAL OF PROTECTIVE HELMETS AND THEIR VISORS FOR DRIVERS AND PASSENGERS OF MOTORCYCLES AND MOPEDS		

14 DRAWINGS OF EPS

