



Référence: e13*168/2013*00952*01

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Bertrange, le 24 février 2023

FICHE DE RÉCEPTION UE PAR TYPE D'UN VÉHICULE ENTIER EU WHOLE-VEHICLE TYPE-APPROVAL CERTIFICATE

Communication concernant:

Communication concerning:

- ~~la réception UE par type d'un véhicule entier~~
EU whole-vehicle type-approval
- ~~l'extension de la réception UE par type d'un véhicule entier~~
extension of EU whole-vehicle type-approval
- ~~le refus de la réception UE par type d'un véhicule entier~~
refusal of EU whole-vehicle type-approval
- ~~le retrait de la réception UE par type d'un véhicule entier~~
withdrawal of EU whole-vehicle type-approval

pour un type de véhicule complet
of a complete vehicle type

**en vertu du règlement (UE) N° 168/2013,
modifié en dernier lieu par le règlement (délégué de la Commission) (UE) N° 2020/1694
complété par les règlements (UE) N° 3/2014, N° 44/2014 et N° 134/2014 modifiés en dernier lieu
par le règlement (UE) N° 2018/295**

with regard to Regulation (EU) N° 168/2013, as last amended by (Commission Delegated) Regulation (EU) N° 2020/1694
supplemented by regulations (EU) N° 3/2014, N° 44/2014 and N° 134/2014 as last amended by regulation (EU) N° 2018/295

Numéro de réception UE par type:

EU type-approval number:

e13*168/2013*00952*01

Raison de l'extension:

Reason for extension:

Refer to manufacturer's information document

SECTION I

SECTION I

| | | |
|---------------|--|---|
| 0.1. | Marque (dénomination commerciale du constructeur): Make (trade name of manufacturer): | SHANSU, Easycool, yuki, HIMOTO, <u>VORTEX By Gingabike, HECHT</u> |
| 0.2. | Type: Type: | CP-8 |
| 0.2.1. | Variante(s): Variant(s): | 0 |
| 0.2.2. | Version(s): Version(s): | 0, 1 |
| 0.2.3. | Appellation(s) commerciale(s) (le cas échéant): Commercial name(s) (if available): | E-beast, YK-27-S, <u>HECHT STRATIS, SPORTSMAN</u> |
| 0.3. | Catégorie, sous-catégorie et sous-sous-catégorie du véhicule: Category, subcategory and sub-subcategory of vehicle: | L1 e-B |
| 0.4. | Raison sociale et adresse du constructeur du véhicule complet: Company name and address of manufacturer of the complete vehicle: | HK SHANSU TECHNOLOGY LIMITED FLAT B 4/F KINGSWELL COMM TOWER, 171-173 LOCKHART RD, WANCHAI, HONGKONG |
| 0.4.1 | Nom(s) et adresse(s) de(s) usines d'assemblage: Name(s) and adresse(s) of assembly plant(s): | Yongkang Changpao Industry and Trade Co.,Ltd North of the No.1 factory, No.19th Wanghu Road, economic development district, yongkang city, Jinhua city, Zhejiang province, China |
| 0.4.2. | Nom et adresse du mandataire du constructeur (le cas échéant): Name and address of manufacturer's authorised representative, if any: | SEVIMOTOR PIT BIKES SPAIN, S.L. URB NTRA.SRA.DE LA SALUD, NUM.68 E-41510 MAIRENA DEL ALCOR-(SEVILLA), SPAIN |

SECTION II

SECTION II

| | | |
|-----------|---|---|
| 1. | Service technique responsable de la réalisation des essais: Technical service responsible for carrying out the tests: | Cetoc Technical Service srl Via della Bufalotta, 373 00139 – Roma - Italy |
| 2. | Date du rapport d'essais: Date of test report: | 10.02.2023 |
| 3. | Numéro du rapport d'essais: Number of test report: | CN-118-2-76-WHO22-05501-IR |

SECTION III
SECTION III

Le soussigné certifie l'exactitude de la description, faite par le constructeur dans la fiche de renseignements jointe, du type de véhicule décrit ci-dessus, dont un ou plusieurs échantillons représentatifs, sélectionnés par l'autorité compétente en matière de réception UE par type, ont été présentés en tant que prototypes du type de véhicule, et que les résultats d'essais joints s'appliquent au type de véhicule.

The undersigned hereby certifies the accuracy of the manufacturer's description in the attached information document of the vehicle type described above, for which one or more representative samples, selected by the EU type-approval authority, have been submitted as prototypes of the vehicle type and that the attached test results apply to the vehicle type.

- | | |
|--|---|
| <p>1. Le type de véhicule complet satisfait/ ne satisfait pas à l'ensemble des prescriptions pertinentes énumérées dans l'annexe II du règlement (UE) N° 168/2013.</p> <p>The complete vehicle type meets/does not meet all relevant requirements as listed in Annex II to Regulation (EU) N° 168/2013.</p> | <p>The complete vehicle type meets all relevant requirements as listed in Annex II to Regulation (EU) N° 168/2013</p> |
| <p>1.1. Restrictions de validité: Restrictions of validity:</p> | <p>not applicable</p> |
| <p>1.2. Dérogations accordées: Waivers applied:</p> | <p>not applicable</p> |
| <p>1.2.1. Raisons des dérogations: Reasons for the waivers:</p> | <p>not applicable</p> |
| <p>1.2.2. Autres exigences applicables: Alternative requirements:</p> | <p>not applicable</p> |
| <p>2. La réception est accordée/étendue/refusée/retirée: The approval is granted/extended/refused/withdrawn:</p> | <p>the approval is extended</p> |
| <p>2.1. La réception est accordée conformément à l'article 40 du règlement (UE) N° 168/2013 et sa validité expire, par conséquent, le jj/mm/aaaa. The approval is granted in accordance with Article 40 of Regulation (EU) N° 168/2013 and the validity of the approval is thus limited to dd/mm/yyyy.</p> | <p>not applicable</p> |

Lieu:

Place:

Bertrange

Date:

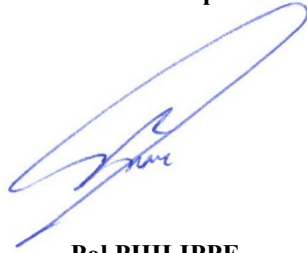
Date:

24 février 2023

Signature:


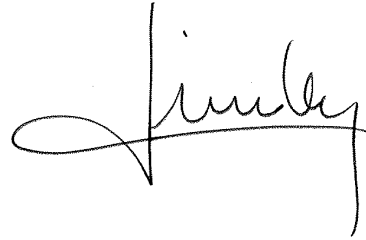
Signature:

**Pour le Ministre de la Mobilité
et des Travaux publics**



Pol PHILIPPE
Attaché

Pour la SNCH



Laurent LINDEN
Directeur opérationnel



Pièces jointes:

Attachments:

- **Dossier de réception**
Information package
- **Résultats d'essai**
Test results
- **Nom(s) et spécimen(s) de signature de la ou des personnes autorisées à signer les certificats de conformité et indication de leurs fonctions dans la société**
Name(s) and specimen(s) of the signature(s) of the person(s) authorised to sign certificates of conformity and a statement of their position in the company
- **Spécimen complété du certificat de conformité**
A completed specimen of the certificate of conformity

NB:

NB:

not applicable

Addendum à la fiche de réception UE par type

Addendum to the EU type-approval certificate

Liste des actes réglementaires aux prescriptions desquels le type de véhicule satisfait

List of regulatory acts with which the type of vehicle complies

refer to Appendix 3 – Page 6 to 8 of test report N° CN-118-2-76-WHO22-05501-IR



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Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Bertrange, le 24 février 2023

Index du dossier de réception

Index to type-approval report

| | | |
|-----------|--|--|
| | Numéro de réception UE par type: EU type-approval number: | e13*168/2013*00952*01 |
| | Révision: Revision: | 01 |
| | Marque de fabrication ou de commerce: Trade name or mark: | SHANSU, Easycool, yuki, HIMOTO, <u>VORTEX By Gingabike, HECHT</u> |
| | Type: Type: | CP-8 |
| 1. | Procès-verbal d'essai: Test report: | N° CN-118-2-76-WHO22-05501-IR |
| | - Technical report: | Page 1 |
| | - List of modifications: | Page 2 |
| | - Technical information: | Page 3 to 5 |
| | - Addendum to the EU type-approval certificate: | Page 6 to 8 |
| 2. | Dossier du constructeur: Report of the manufacturer: | Annex MID (N° CP-8-01) |
| | Manufacturer's information document: | Page 1 to 72 |
| 3. | Autres documents annexés: Other documents annexed: | not applicable |
| 4. | Date de délivrance de la réception initiale: Date of issue of initial type approval: | 29.10.2020 |
| 5. | Date de la dernière délivrance de pages révisées: Date of last issue of revised pages: | 19.10.2022 |
| 6. | Date de la dernière délivrance d'une réception révisée: Date of last extension: | 24.02.2023 |



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de la Mobilité
et des Travaux publics

Département de la mobilité
et des transports

SOCIÉTÉ NATIONALE DE
CERTIFICATION ET D'HOMOLOGATION
S.A.

Registre de Commerce: B 27180



L-8070 Bertrange

Référence: e13*168/2013*00952*01

Annexes: - Rapport Technique
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Bertrange, le 24 février 2023

Annexe VIII
Annex VIII

Fiche des résultats d'essais
Test results sheet

Paper extension, no new test results



CETOC TS

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

e13*168/2013*00952*01

Société Nationale de Certification et d'Homologation

Inspection Report Nr.: CN-118-2-76-WHO22-05501-IR
Manufacturer: HK SHANSU TECHNOLOGY LIMITED
Type: CP-8

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ISP N° 0184 E

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC

Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

Approval and Market Surveillance of Two or Three Wheel Vehicles and Quadricycles

0. Legislation:

- 0.1. Requirements according to : Reg. (EU) 168/2013 amended by Reg. (EU) 134/2014, Reg. (EU) 2019/129, Reg. (EU) 2020/1694.
Including Delegated act (EU) 3/2014 amended (EU) 2016/1824
Including Delegated act (EU) 44/2014 amended (EU) 2018/295
Including Delegated act (EU) 134/2014 amended (EU) 2018/295
Including Delegated act (EU) 901/2014 amended (EU) 2020/239

1. General



- 1.1. Reason for Inspection Report : ~~New approval~~ / Extension of approval / ~~Test report only~~ / COP
1.2. Manufacturer's Representative(s) : Qiang WU (吴强)
1.3. CETOC TS Representative(s) : Steven LI
1.4. Location of Test : Not applicable
1.5. Data of test : Not applicable

2. Manufacturer Details

- 2.1. Make : SHANSU, Easycool, yuki, HIMOTO, VORTEX By Gingabike, HECHT
2.2. Type : CP-8
2.3. Variant/Version : Variant 0 Version(s) 0,1
2.4. Commercial Name : E-beast, YK-27-S, HECHT STRATIS, SPORTSMAN
2.5. Category : L1e-B
2.6. Name and Address of manufacturer : HK SHANSU TECHNOLOGY LIMITED
FLAT B 4/F KINGSWELL COMM TOWER, 171-173 LOCKHART RD, WANCHAI, HONGKONG

3. Conclusion:

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

| | | | |
|-----------------|---|---|---|
| Signature: | : |  |  |
| Name: | : | Steven LI | Massimo Peraboni |
| Position: | : | Type Approval Engineer | Technical Manager |
| Place and date: | : | Hangzhou, 2023/02/10 | Roma, 2023/02/10 |

4. List of annexes:

- Appendix 1 : Test report history
Appendix 2.1 : Vehicle specification of tested if equipped with combustion engine.
Appendix 2.2 : Vehicle specification of tested vehicle if equipped with electric motor.
Appendix 3 : Addendum to the EU type approval certificate



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APPENDIX 1 - TEST REPORT HISTORY

List this report and previous reports, with extension details.

| Inspection Report Number | Reason for Extension | Date of Issue |
|----------------------------|--|---------------|
| 66SSA0001A | Not applicable | 2020/10/29 |
| CN66SS-AL-00001-01C00 | Reason for revision: to be corrected: - Annex T2 item 2.3 Environmental step of test vehicle - Annex MID appendix 4 item 4.0.1. Environmental step - Annex MID COC item 6.16.1.1 Location and arrangement - Annex MID COC item 4.0.1. Environmental step to be changed: - the editorial arrangement | 2022/10/19 |
| CN-118-2-76-WHO22-05501-IR | To change Technical Service To add: - Item 0.1 Make: VORTEX By Gingabike, HECHT - Item 0.2.3. Commercial name(s) (if available): HECHT STRATIS, SPORTSMAN | 2023/2/10 |

Worst Case Rationale

According to the extension reasons, no further test is need. Paperwork only.



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Société Nationale de Certification et d'Homologation

Inspection Report Nr.: CN-118-2-76-WHO22-05501-IR
Manufacturer: HK SHANSU TECHNOLOGY LIMITED
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APPENDIX 2.1 – VEHICLE SPECIFICATION OF TESTED VEHICLE IF EQUIPPED WITH COMBUSTION ENGINE

Not applicable

| | | | | |
|----------------|-------------------------|-------------------------------|---|--|
| Not applicable | 1.1. | Variant/Version | : | |
| | 1.2 | Vehicle Identification Number | : | |
| | 1.3. | Engine Type | : | |
| | 1.3.1. | Engine family | : | |
| | 1.4. | Engine Capacity (cm3) | : | |
| | 1.5 | No. of Cylinders | : | |
| | 1.6 | Engine Layout | : | |
| | 1.7 | Engine Cooling | : | |
| | 1.8 | Reference Fuels | : | |
| | 1.9 | Fuel Tank | : | |
| | 1.10 | Canister | : | |
| | 1.11 | Fuel Feed | : | |
| | 1.12 | Spark Plug | : | |
| | 1.13 | Intake System | : | |
| | 1.14 | Exhaust System | : | |
| | 1.14.1 | Lambda Sensor | : | |
| | 1.14.2 | Secondary Air | : | |
| | 1.14.3 | Catalyst | : | |
| | 1.15 | ECU | : | |
| | 1.16 | OBD | : | |
| | 1.17 | Maximum Power (kW) | : | |
| | 1.18 | Maximum Torque(Nm) | : | |
| | 1.19 | Idle Speed | : | |
| | 1.20 | Transmission | : | |
| | 1.20.1 | Primary | : | |
| | 1.20.2 | Secondary | : | |
| | 1.20.3 | Final | : | |
| | 1.21 | Actual mass (kg) | : | |
| 1.22 | Inertial Mass (kg) | : | | |
| 1.23 | Vehicle Length: | : | | |
| 1.24 | Maximum Design Speed | : | | |
| 1.25 | PMR | : | | |
| 1.26 | aWot,ref | : | | |
| 1.27 | aUrban | : | | |
| 1.28 | Reference Length (IRef) | : | | |



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| | | | |
|----------------|--------|---------------------------|---|
| Not applicable | 1.29 | Gear Weighting Factor (K) | : |
| | 1.30 | Partial Power Factor (Kp) | : |
| | 1.31 | Tyre | : |
| | 1.31.1 | Dimension | : |
| | 1.31.2 | Pressure (kPa) | : |
| | 1.31.3 | Rolling Circ. (mm) | : |



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APPENDIX 2.2 – VEHICLE SPECIFICATION OF TESTED VEHICLE IF EQUIPPED WITH ELECTRIC MOTOR

| 1.1. Variant/Version | | Variant 0 / Version 0,1 |
|--------------------------------|---|--------------------------|
| 1.2. | Vehicle Identification Number | : ☆R36CP800????????☆ |
| 1.3. | Type of propulsion | : Pure Electric |
| 1.4. | Electric motor code | : ☆????????☆ |
| 1.5. | Electric motor layout | : Direct drive rear axle |
| 1.6. | Electric motor cooling | : Natural air cooling |
| 1.7. | ECU Electric motor control unit | : ZJCP12-72V-YTC |
| 1.8. | OBD | : OBD functional |
| 1.9. Propulsion battery | | |
| 1.9.1. | Kind of electrochemical couple | : |
| 1.9.2. | Battery voltage | : 60 V |
| 1.9.3. | Battery capacity | : 20 Ah |
| 1.10. | Charger | : JURRY 72V10A |
| 1.11. | Maximum continuous-rated power electric motor (15/30 minutes power) | : 2.0 kW |
| 1.12. | Maximum continuous-rated torque electric motor | : 47.4 N.m |
| 1.13. Transmission | | |
| 1.13.1 | Internal ratio / primary ratio / secondary ratio | : Not applicable |
| 1.13.2 | Final | : Direct drive |
| 1.14. | Actual mass (kg) | : 184 / 153 |
| 1.14.1 | Inertial Mass (kg) | : 180 / 150 |
| 1.15. | Maximum Design Speed: | 45 km/h |
| 1.16. tyres | | Front/Rear Tyre |
| | Dimension | : 130/70-12 |
| 1.16.1. | Pressure (kPa) | : 250 |
| 1.16.2. | Rolling Circ. (mm) | : 1560 |



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APPENDIX 3 - ADDENDUM TO THE EU TYPE- APPROVAL CERTIFICATE

A. ENVIRONMENTAL AND PROPULSION UNIT PERFORMANCE REQUIREMENTS (EPPR)

| Nr. | Subject | Commission Delegated Regulation (EU) No Including last amendment | PASS | FAIL | N/A | COVER BY PREVIOUS EXTENSION |
|-----|--|--|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| A1. | Tailpipe emissions after cold start | 134/2014 Annex II (EU) 2018/295 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Tailpipe emissions at (increased) idle/ free acceleration | 134/2014 Annex III (EU) 2018/295 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Durability of pollution- control devices | 134/2014 Annex VI (EU) 2018/295 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | CO ₂ emissions, fuel consumption, electric energy consumption and electric range | 134/2014 Annex VII (EU) 2018/295 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| A2 | Emissions crankcase gases | 134/2014 Annex IV (EU) 2018/295 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| A3 | Evaporative emissions | 134/2014 Annex V (EU) 2018/295 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| A4 | OBD Environmental tests | 134/2014 Annex VIII (EU) 2018/295 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| A5 | Sound level | 134/2014 Annex IX (EU) 2018/295 UNECE R41.04 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| A6 | Procedures and technical requirements on maximum vehicle design speed, maximum torque, maximum continuous total power and maximum peak power | 134/2014 Annex X (EU) 2018/295 UNECE R85.00 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| A7 | Vehicle propulsion family definition | 134/2014 Annex XI (EU) 2018/295 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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Inspection Report Nr.: CN-118-2-76-WHO22-05501-IR
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B. VEHICLE FUNCTIONAL SAFETY REQUIREMENTS (VFSR)

| Nr. | Subject | Commission Delegated Regulation (EU) No including last amendment | PASS | FAIL | N/A | COVER BY PREVIOUS EXTENSION |
|-----|---|--|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| B1 | Audible warning devices | 3/2014 Annex II 2016/1824 UNECE R28.00 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B2 | Braking, including anti- lock and combined brake systems | 3/2014 Annex III 2016/1824 UNECE R78.04 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B3 | Electrical safety | 3/2014 Annex IV 2016/1824 UNECE R100.02 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B4 | Endurance Testing of Functional Safety Critical Systems, Parts and Equipment | 3/2014 Annex V 2016/1824 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B5 | Front and rear protective structures | 3/2014 Annex VI 2016/1824 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B6 | Glazing, windscreen wipers and washers, and defrosting and demisting systems | 3/2014 Annex VII 2016/1824 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B7 | Driver-operated controls including identification of controls, tell-tales and indicators | 3/2014 Annex VIII 2016/1824 UNECE R60.00 UNECE R39.01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B8 | Installation of lighting and light- signalling devices, including automatic switching of lighting | 3/2014 Annex IX 2016/1824 UNECE R53.03 (Motorcycle) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B9 | Rearward visibility | 3/2014 Annex X 2016/1824 UNECE R81.00 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B10 | Rollover protective structure (ROPS) | 3/2014 Annex XI 2016/1824 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B11 | Safety-belt anchorages and safety- belts | 3/2014 Annex XII 2016/1824 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B12 | Seating positions (saddles and seats) | 3/2014 Annex XIII 2016/1824 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B13 | Steer-ability, cornering properties and turn- ability | 3/2014 Annex XIV 2016/1824 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B14 | Installation of tyres | 3/2014 Annex XV 2016/1824 UNECE R75.00 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B15 | Vehicle maximum speed limitation plate and its location on the vehicle | 3/2014 Annex XVI 2016/1824 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B16 | Vehicle occupant protection, including interior fittings and vehicle doors | 3/2014 Annex XVII 2016/1824 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B17 | Maximum continuous total power and/or maximum vehicle speed limitation by design | 3/2014 Annex XVIII 2016/1824 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| B18 | Vehicle structure integrity | 3/2014 Annex XIX 2016/1824 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



CETOC TS

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

e13*168/2013*00952*01

Société Nationale de Certification et d'Homologation

Inspection Report Nr.: CN-118-2-76-WHO22-05501-IR
Manufacturer: HK SHANSU TECHNOLOGY LIMITED
Type: CP-8

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ISP N° 0184 E

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC

Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

C. VEHICLE CONSTRUCTION AND GENERAL TYPE-APPROVAL REQUIREMENTS (VCR)

| Nr. | Subject | Commission Delegated Regulation (EU) No including last amendment | PASS | FAIL | N/A | COVER BY PREVIOUS EXTENSION |
|-----|---|--|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| C1 | Powertrain tampering prevention (anti-tampering) measures | 44/2014 Annex II (EU) 2018/295 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C2 | Arrangements for type-approval | 44/2014 Annex III (EU) 2018/295 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C3 | Conformity of production (CoP) | 44/2014 Annex IV (EU) 2018/295 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C4 | Coupling devices and attachments | 44/2014 Annex V (EU) 2018/295 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C5 | Devices to prevent unauthorised use | 44/2014 Annex VI (EU) 2018/295 UNECE R62.01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C6 | Electromagnetic compatibility (EMC) | 44/2014 Annex VII (EU) 2018/295 UNECE R10.06 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C7 | External projections | 44/2014 Annex VIII (EU) 2018/295 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C8 | Fuel storage | 44/2014 Annex IX (EU) 2018/295 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C9 | Load platforms | 44/2014 Annex X (EU) 2018/295 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C10 | Masses and dimensions | 44/2014 Annex XI (EU) 2018/295 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C11 | Functional on-board diagnostics (OBD) | 44/2014 Annex XII (EU) 2018/295 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C12 | Passenger handholds and footrests | 44/2014 Annex XIII (EU) 2018/295 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C13 | Registration plate space | 44/2014 Annex XIV (EU) 2018/295 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C14 | Access to repair and maintenance information | 44/2014 Annex XV (EU) 2018/295 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C15 | Stands | 44/2014 Annex XVI (EU) 2018/295 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

D. VEHICLE CONSTRUCTION AND GENERAL TYPE-APPROVAL REQUIREMENTS (VCR)

| Nr. | Subject | Commission Delegated Regulation (EU) No including last amendment | PASS | FAIL | N/A | COVER BY PREVIOUS EXTENSION |
|-----|-----------------|--|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| D1 | Statutory plate | 901/2014 Annex V (EU) 2020/239 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

EUROPEAN TYPE-APPROVAL OF TWO OR THREE-WHEEL VEHICLES AND QUADRICYCLES
(Information Folder No. CP-8-01)

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Société Nationale de Certification et d'Homologation

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| 2 | TYPE APPROVAL NUMBERS AND TEST REPORTS OVERVIEW |
| 3 | VARIANTS AND VERSIONS MATRIX |
| 4 | INFORMATION DOCUMENT AND DRAWINGS |
| 5 | STATEMENTS ON ENDURANCE TESTING |
| 6 | STATEMENTS ON STRUCTURE INTEGRITY |
| 7 | MANUFACTURER'S CERTIFICATES PROVIDING PROOF OF COMPLIANCE TO THE TYPE APPROVAL AUTHORITY ON ACCESS TO VEHICLE ON-BOARD DIAGNOSTICS (OBD) AND TO VEHICLE REPAIR AND MAINTENANCE INFORMATION |
| 8 | DECLARATION ON POWERTRAIN TAMPERING PREVENTION MEASURES (ANTI-TAMPERING) (IF APPLICABLE) |

| | | |
|--|------------------------------|-------------------------------|
| Type: CP-8 | HK SHANSU TECHNOLOGY LIMITED | Date: 17.01.2023 Ext. : 01 |
| EUROPEAN TYPE-APPROVAL OF TWO OR THREE-WHEEL VEHICLES AND QUADRICYCLES (Information Folder No. CP-8-01) | | |

Document revisions history

| Ext. No. / Corr. No. | Extension reason | Date |
|-------------------------|---|---------------------|
| 00 | First application | 10 Oct, 2020 |
| Corr. 01 to Ext.00 | to be corrected: - Appendix 4 item 4.0.1. Environmental step - COC item 6.16.1.1 Location and arrangement - COC item 4.0.1. Environmental step | 15 Sep, 2022 |
| 01 | To be added: - Item 0.1 Make: VORTEX By Gingabike, HECHT - Item 0.2.3. Commercial name(s) (if available): HECHT STRATIS, SPORTSMAN - To change Technical Service | 17 Jan, 2023 |

**Information
on the type-approval procedure chosen in accordance with Article 25(1) of
Regulation (EU) No 168/2013
-Information folder sheet-**

The undersigned: Wu Qiang, general Manager

Company name and address of manufacturer:

HK SHANSU TECHNOLOGY LIMITED
FLAT B 4/F KINGSWELL COMM TOWER, 171-173 LOCKHART RD, WANCHAI, HONGKONG

Name and address of the manufacturer's representative (if any):

SEVIMOTOR PIT BIKES SPAIN, S.L.
URB NTRA.SRA.DE LA SALUD, NUM.68 41510 MAIRENA DEL ALCOR-(SEVILLA), SPAIN

Hereby applies for type-approval procedure:

~~(a) step-by-step type-approval~~

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(b) single-step type-approval

~~(c) mixed type-approval~~

Where procedures (a) or (c) are chosen, compliance with requirements as under (b) is declared for all systems, components and separate technical units.

Multi-stage type-approval chosen in accordance with Article 25(5) of Regulation (EU) No 168/2013:
~~yes/no~~

Information on the vehicle(s) to be filled in, if application is for EU whole-vehicle type- approval:

0.1. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, **VORTEX By Gingabike, HECHT**

0.2. Type: CP-8

0.2.1. Variant(s): 0

0.2.2. Version(s): 0, 1

0.2.3. Commercial name(s) (if available): E-beast, YK-27-S, **HECHT STRATIS, SPORTSMAN**

0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B

Information on the vehicle(s) to be filled in, if application is for type-approval of a system/
component/ separate technical unit: N.A.

0.7. Make (trade name of the manufacturer): N.A

0.8. Type: N.A

0.8.1. Commercial name(s) (if available): N.A

1.6. Virtual and/or self-testing

| | | | |
|------------|------------------------------|--------|------------|
| Type: CP-8 | HK SHANSU TECHNOLOGY LIMITED | Date : | 17.01.2023 |
| Appendix 1 | | Ext. : | 01 |

1.6.1. Overview list with virtual and/or self-tested systems, components or separate technical units pursuant to point 6 of Annex III to Commission Delegated Regulation (EU) No 44/2014 below: N.A.

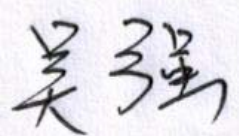
1.6.2. Detailed report on validation of virtual and/or self-testing added: ~~yes~~/no

Place: Hongkong, China

Date: 17.01.2023

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Signature:

Name and position in the company: Wu Qiang, general Manager

| | | |
|------------|------------------------------|-------------------|
| Type: CP-8 | HK SHANSU TECHNOLOGY LIMITED | Date : 17.01.2023 |
| Appendix 2 | | Ext. : 01 |

| |
|---|
| Type-approval numbers and Test Reports overview |
|---|

| Item No. | subject | Type-approval number or test report number | Date of issue of the type-approval or of its extension or of the test report | Member State or contracting party issuing the type-approval or technical service issuing the test report | Reference to the regulatory act and its latest amendment | Variant(s)/ version(s) |
|----------|---|--|--|--|--|------------------------|
| A1 | Environmental test procedures related to exhaust emissions, evaporative emissions, greenhouse gas emissions, fuel consumption and reference fuels | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 134/2014 Annex II to VIII * (EU) 2018/295 | 0/0, 0/1 |
| A2 | Maximum design vehicle speed, maximum torque, maximum continuous total engine power of propulsion | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 134/2014 Annex X* (EU) 2018/295 | 0/0, 0/1 |
| A3 | Test procedures related to sound | N.A. | N.A. | N.A. | N.A. | N.A. |
| B1 | Audible warning devices Installation | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex II* (EU) 2016/1824 | 0/0, 0/1 |
| | Audible warning devices | E32-28R-00002 | 15 Apr, 2015 | Latvia | UNECE R28 Series 00 Supplement 3 | 0/0,0/1 |
| B2 | Braking, including anti-lock and combined brake systems | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex III* (EU) 2016/1824 | 0/0, 0/1 |
| B3 | Electrical safety | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex IV* (EU) 2016/1824 | 0/0, 0/1 |
| B4 | Manufacturer declaration requirements regarding endurance testing of functional safety-critical systems, parts and equipment | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex V* (EU) 2016/1824 | 0/0, 0/1 |
| B5 | Front and rear protective structures | N.A. | N.A. | N.A. | N.A. | N.A. |
| B6 | Glazing, windscreen wipers and washers, and defrosting and demisting systems | N.A. | N.A. | N.A. | N.A. | N.A. |
| B7 | Driver-operated controls including identification of controls, tell-tales and indicators | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex VIII* (EU) 2016/1824 | 0/0, 0/1 |

| | | | | | | |
|----------------------|---|----------------------------|-----------------|---------------------------------|---|----------|
| B8 | Installation of lighting and light- signalling devices, including automatic switching of lighting | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex IX* (EU) 2016/1824 | 0/0, 0/1 |
| | Driving beam Headlamp Passing beam Headlamp(option 1) | E13*113R00*113R01*34875*00 | 31 Aug, 2017 | Luxembourg | UNECE R113 Series 01 Supplement 06 | 0/0, 0/1 |
| | Driving beam Headlamp Passing beam Headlamp(option 2) | E13*113R00*113R01*14250*00 | 18 Dec, 2014 | Luxembourg | UNECE R113 Series 01 Supplement 03 | 0/0, 0/1 |
| | Front position lamp(option 1) | E13*50R00*50R00*34875*00 | 31 Aug, 2017 | Luxembourg | UNECE R50 Series 00 Supplement 18 | 0/0, 0/1 |
| | Front position lamp (option 2) | E13*50R00*50R00*14250*00 | 18 Dec, 2014 | Luxembourg | UNECE R50 Series 00 Supplement 16 | 0/0, 0/1 |
| | Front direction indicator (option 1) | E13*50R00*50R00*34877*00 | 08 Sep, 2017 | Luxembourg | UNECE R50 Series 00 Supplement 18 | 0/0, 0/1 |
| | Front direction indicator (option 2) | E13*50R00*50R00*13864*00 | 14 Feb,2014 | Luxembourg | UNECE R50 Series 00 Supplement 16 | 0/0, 0/1 |
| | Rear position lamp Stop lamp | E13*50R00*50R00*14251*00 | 17 Dec, 2014 | Luxembourg | UNECE R50 Series 00 Supplement 16 | 0/0, 0/1 |
| | Rear registration plate lamp | E13*50R00*50R00*14252*00 | 17 Dec, 2014 | Luxembourg | UNECE R50 Series 00 Supplement 16 | 0/0, 0/1 |
| | Rear direction indicator (option 1) | E13*50R00*50R00*34877*00 | 08 Sep, 2017 | Luxembourg | UNECE R50 Series 00 Supplement 18 | 0/0, 0/1 |
| | Rear direction indicator (option 2) | E13*50R00*50R00*13864*00 | 14 Feb,2014 | Luxembourg | UNECE R50 Series 00 Supplement 16 | 0/0, 0/1 |
| | Rear retro-reflector | E4-3R-023257 | 24 Aug, 2005 | Netherlands | UNECE R3 Series 02 Supplement 9 | 0/0, 0/1 |
| Side retro-reflector | E4-3R-023256 | 24 Aug, 2005 | Netherlands | UNECE R3 Series 02 Supplement 9 | 0/0, 0/1 | |
| B9 | Rearward visibility | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex X* (EU) 2016/1824 | 0/0, 0/1 |
| | Rear-view mirror | E11-81R-002066 | 23 Sep, 2013 | United Kingdom | UNECE R81 Series 00 Supplement 02 | 0/0, 0/1 |
| B10 | Rollover protective structure (ROPS) | N.A. | N.A. | N.A. | N.A. | N.A. |

| | | | | | | |
|-----|--|-----------------------|-----------------|-------|--|----------|
| B11 | Safety-belt anchorages and safety- belts | N.A. | N.A. | N.A. | N.A. | N.A. |
| B12 | Seating positions (saddles and seats) | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex XIII* (EU) 2016/1824 | 0/0, 0/1 |
| B13 | Steer-ability, cornering properties and turn-ability | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex XIV* (EU) 2016/1824 | 0/0, 0/1 |
| B14 | Installation of tyres | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex XV* (EU) 2016/1824 | 0/0, 0/1 |
| | Tyres-Front & Rear | E9*75R00/17* 1205*00 | 03 Jan,2020 | Spain | UNECE R75 Series 00 Supplement 17 | 0/0, 0/1 |
| B15 | Vehicle maximum speed limitation plate and its location on the vehicle | N.A. | N.A. | N.A. | N.A. | N.A. |
| B16 | Vehicle occupant protection, including interior fittings and vehicle doors | N.A. | N.A. | N.A. | N.A. | N.A. |
| B17 | Maximum continuous total power and/or maximum vehicle speed limitation by design | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex XVIII* (EU) 2016/1824 | 0/0, 0/1 |
| B18 | Vehicle structure integrity | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 3/2014 Annex XIX* (EU) 2016/1824 | 0/0, 0/1 |
| C1 | Anti-tampering measures | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 44/2014 Annex II* (EU) 2018/295 | 0/0, 0/1 |
| C2 | Arrangements for type-approval procedures | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 44/2014 Annex III* (EU) 2018/295 | 0/0, 0/1 |
| C3 | Conformity of production requirement | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 44/2014 Annex IV* (EU) 2018/295 | 0/0, 0/1 |
| C4 | Coupling devices and attachments | N.A. | N.A. | N.A. | N.A. | N.A. |
| C5 | Devices to prevent unauthorised use | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 44/2014 Annex VI* (EU) 2018/295 | 0/0, 0/1 |
| C6 | Electromagnetic compatibility (EMC) | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 44/2014 Annex VII* (EU) 2018/295 | 0/0, 0/1 |
| C7 | External projections | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 44/2014 Annex VIII* (EU) 2018/295 | 0/0, 0/1 |
| C8 | Fuel storage | N.A. | N.A. | N.A. | N.A. | N.A. |
| C9 | Load platforms | N.A. | N.A. | N.A. | N.A. | N.A. |

| | | | | | | |
|-----|------------------------------------|-----------------------|-----------------|-------|---|----------|
| C10 | Masses and dimensions | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 44/2014 Annex XI* (EU) 2018/295 | 0/0, 0/1 |
| C11 | On-board diagnostics | N.A. | N.A. | N.A. | N.A. | N.A. |
| C12 | Passenger handholds and footrests | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 44/2014 Annex XIII* (EU) 2018/295 | 0/0, 0/1 |
| C13 | Registration plate space | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 44/2014 Annex XIV* (EU) 2018/295 | 0/0, 0/1 |
| C14 | Repair and maintenance information | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 44/2014 Annex XV* (EU) 2018/295 | 0/0, 0/1 |
| C15 | Stands | CN66SS-AL-00001-01C00 | 19 October 2022 | ATEEL | (EU) No 44/2014 Annex XVI* (EU) 2018/295 | 0/0, 0/1 |

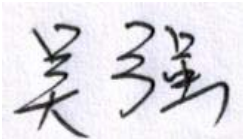
Remark: In respect of the applicable subjects for the vehicle set out in Annex II to Regulation (EU) No 168/2013.

Place: Hongkong, China

Date: 17.01.2023

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Société Nationale de Certification et d'Homologation



Signature:

Name and position in the company: Wu Qiang, general Manager

Variants and Versions matrix

| Item No. | Variant | Version | Description |
|----------------|---------|---------|---|
| See Appendix 4 | 0 | 0 | 2.0kW, 45 km/h 72V, 20Ah lead-acid Battery |
| | 0 | 1 | 2.0 kw, 45km/h 72V, 20Ah lithium Battery |

| | | |
|------------|------------------------------|------------------|
| Type: CP-8 | HK SHANSU TECHNOLOGY LIMITED | Date: 17.01.2023 |
| Appendix 4 | | Ext. : 01 |

INFORMATION DOCUMENT AND DRAWINGS

0. GENERAL INFORMATION

A. GENERAL INFORMATION CONCERNING VEHICLES

0.1. Make (trade name of manufacturer): SHANSU, Easycool, yuki, HIMOTO, **VORTEX By Gingabike, HECH**

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0.2. Type: CP-8

0.2.1. Variants: 0

0.2.2. Versions: 0, 1

0.2.3. Commercial name(s) (if available): E-beast, YK-27-S, **HECHT STRATIS, SPORTSMAN**

0.3 Category, subcategory and sub-subcategory of vehicle: L1e-B

0.4 Company name and address of manufacturer:

HK SHANSU TECHNOLOGY LIMITED
 FLAT B 4/F KINGSWELL COMM TOWER, 171-173 LOCKHART RD, WANCHAI,
 HONGKONG

0.4.1. Name(s) and address(es) of assembly plants:

Yongkang Changpao Industry and Trade Co.,Ltd.
 North of the No.1 factory, No.19th Wanghu Road, economic development district,
 yongkang city, Jinhua city, Zhejiang province, China

0.4.2. Name and address of manufacturer's authorised representative, if any:

SEVIMOTOR PIT BIKES SPAIN, S.L.
 URB NTRA.SRA.DE LA SALUD, NUM.68 41510 MAIRENA DEL ALCOR-(SEVILLA),
 SPAIN

0.5. Manufacturer's statutory plate(s):

0.5.1. Location of the manufacturer's statutory plate:

R x210, y30, z720, See the drawing of CP-8-01

0.5.2. Method of attachment:

Riveted

0.5.3. Photographs and/or drawings of the statutory plate (completed example with dimensions):

See the drawing of CP-8-01

| | | |
|------------|------------------------------|------------------|
| Type: CP-8 | HK SHANSU TECHNOLOGY LIMITED | Date: 17.01.2023 |
| Appendix 4 | | Ext. : 01 |

0.6. Location of the vehicle identification number:

L, x210, y-30, z720, See the drawing of CP-8-02

0.6.1. Photographs and/or drawings of the locations of the vehicle identification number (completed example with dimensions):

See the drawing of CP-8-02

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0.6.1.1. The serial number of the type begins with: [Société Nationale de Certification et d'Homologation](#)

☆R36CP800*****☆

B. GENERAL INFORMATION CONCERNING SYSTEMS, COMPONENTS OR SEPARATE TECHNICAL UNITS
N.A.

C. GENERAL INFORMATION REGARDING CONFORMITY OF PRODUCTION AND ACCESS TO REPAIR AND MAINTENANCE INFORMATION

0.12. Conformity of production

0.12.1. Description of overall quality-assurance management systems: ISO 9001:2015

0.13. Access to repair and maintenance information

0.13.1. Address of principal website for access to vehicle repair and maintenance information:

<https://zjshansu.en.alibaba.com/>

0.13.2. In the case of multi-stage type-approval, address of principal website for access to vehicle repair and maintenance information from manufacturer(s) at previous stage(s): N.A.

1. GENERAL CONSTRUCTION CHARACTERISTICS

1.1. Photographs and/or drawings of a representative vehicle:

See the drawing of CP-8-03

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1.2. Scale drawing of the whole vehicle:

See the drawing of CP-8-04

1.3. Number of axles and wheels: 2 axles /2 wheels

1.3.1. Axles with twinned wheels: N.A.

1.3.2. Powered axles: R (rear)

1.4. Chassis (if any) (overall drawing): See the drawing of CP-8-05

1.5. (L2e, L5e-B, L6e-B, L7e-A2, L7e-B2, L7e-C) Material used for the bodywork: N.A.

1.6. Position and arrangement of the propulsion(s): Rear wheel hub motor

1.7. (L4e, L5e-B, L6e-B, L7e-A2, L7e-B2, L7e-C) Hand of drive: left/right/centre: N.A.

1.7.1. Vehicle is equipped to be driven in right/left-hand traffic and in countries that use metric/metric and imperial units:

Right and left-hand traffic; metric units.

1.8. Propulsion unit performance

1.8.1. (L3e, L4e, L5e, L7e-A, L7e-B2) Declared maximum vehicle speed: N.A.

1.8.2. (L1e, L2e, L6e, L7e-B1, L7e-C) Maximum design vehicle speed:

45 km/h

1.8.3. Maximum net power combustion engine: N.A.

1.8.4. Maximum net torque combustion engine: N.A.

1.8.5. Maximum continuous-rated power electric motor (15/30 minutes power):

2.0 kW at 400 min⁻¹

1.8.6. Maximum continuous-rated torque electric motor:

47.4 Nm at 400 min⁻¹

1.8.7. Maximum continuous total power for propulsion(s): N.A.

1.8.8. Maximum continuous total torque for propulsion(s): N.A.

1.8.9. Maximum peak power for propulsion(s):

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2.1 kW at 440 min⁻¹

2.1. Range of vehicle mass (overall)

2.1.1. Mass in running order:

68 kg

2.1.1.1. Distribution of mass in running order between the axles:

Front axle: 33 kg

Rear axle: 35 kg

2.1.2. Actual mass:

Version 0: 184kg

Version 1: 153kg

2.1.2.1. Distribution of actual mass between the axles:

Front axle: Version 0: 85kg Version 1: 71kg

Rear axle: Version 0: 99 kg Version 1: 82kg

2.1.3. Technically permissible maximum laden mass: 259 kg

2.1.3.1. Technically permissible maximum mass on front axle: 98 kg

2.1.3.2. Technically permissible maximum mass on rear axle: 161 kg

2.1.3.3. (L4e) Technically permissible maximum mass on sidecar axle: N.A.

2.1.4. Maximum hill-starting ability at the maximum technically permissible mass declared by the manufacturer:

25% slope

2.1.5. Maximum pay mass declared by manufacturer: Version 0: 75 kg Version 1: 106kg

2.1.6. Safe load carrying capacity of load platform declared by manufacturer: N.A.

2.1.7. Technically permissible maximum towable mass in case of: Braked: N.A., Unbraked: N.A.

2.1.7.1. Technically permissible maximum laden mass of the combination: N.A.

2.1.7.2. Technically permissible maximum mass at the coupling point: N.A.

2.1.8. Mass of the optional equipment: 0 kg

2.1.9. Mass of the superstructure: N.A.

2.1.10. Mass of the propulsion battery: Version 0: 41kg Version 1: 10kg

2.1.11. (L2e, L4e, L5e, L6e, L7e) Mass of the doors: N.A.

2.1.12. (L2e-U, L5e-B, L6e-BU, L7e-CU) Mass of the machines or equipment installed on the load platform area: N.A.

2.1.13. Mass of the gaseous fuel system as well as storage tanks for gaseous fuel: N.A.

2.1.14. Mass of the storage tanks to store compressed air: N.A.

2.2. Range of vehicle dimensions (overall) e13*168/2013*00952*01
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2.2.1. Length: See the drawing of CP-8-04

2.2.2. Width: See the drawing of CP-8-04

2.2.3. Height: See the drawing of CP-8-04

2.2.4. Wheelbase: See the drawing of CP-8-04

2.2.4.1. (L4e)Wheelbase sidecar: N.A.

2.2.5. Track width

2.2.5.1. (L1e — L7e if equipped with twinned wheels L2e, L4e, L5e, L6e, L7e)
Track width front: N.A.

2.2.5.2. (L1e — L7e if equipped with twinned wheels L2e, L4e, L5e, L6e, L7e)
Track width rear: N.A.

2.2.5.3. (L4e) Track width sidecar: N.A.

2.2.6. (L7e-B) Front overhang: N.A.

2.2.7. (L7e-B) Rear overhang: N.A.

2.2.8. Load platform dimensions

2.2.8.1. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Length of the load platform: N.A.

2.2.8.2. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Width of load platform: N.A.

2.2.8.3. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Height of load platform: N.A.

2.2.9. Centre of gravity

2.2.9.1. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Location of the centre of gravity forward of the rear axle Lcg: N.A.

2.2.9.2. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Location of the centre of gravity above the ground plane Hcg: N.A.

2.2.9.3. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Location centre of gravity of loaded platform forward of the rear axle LcgLP: N.A.

2.2.10. Miscellaneous dimensions

- 2.2.10.1. (L7e-B2) Approach angle: N.A.
- 2.2.10.2. (L7e-B2) Departure angle: N.A.
- 2.2.10.3. (L7e-B2) Ramp angle: N.A.
- 2.2.10.4. (L7e-B2) Ground clearance under the front axle: N.A.
- 2.2.10.5. (L7e-B2) Ground clearance under the rear axle: N.A.
- 2.2.10.6. (L3e-AxE (x=1, 2 or 3), L3e-AxT (x=1, 2 or 3), L7e-B) Ground clearance between the axles: N.A.
- 2.2.10.7. (L7e-B) Wheelbase to ground clearance ratio: N.A.
- 2.2.10.8. (L7e-B2) Static stability coefficient — Kst: N.A.
- 2.2.10.9. (L3e-AxE, L3e-AxT) Seat height: N.A.
- 2.2.10.10. (L3e-AxE, L3e-AxT) Ground clearance: N.A.

3. GENERAL POWERTRAIN CHARACTERISTICS

3.1. Manufacturer of the propulsion unit

3.1.1. Combustion engine: N.A.

3.1.2. Electric motor

3.1.2.1. Manufacturer:

Yongkang Yanhuang Trading Co., Ltd.

3.1.2.2. Electric motor code (as marked on the engine or other means of identification):

CP830H??????????

3.1.3. Hybrid application: N.A.

3.2. Combustion engine: N.A.

3.3. Pure electric and hybrid electric propulsion and control

3.3.1. Electric vehicle configuration: pure electric/~~hybrid electric/manpower electric~~

3.3.2. Brief description and schematic drawing of pure and hybrid electric propulsions and its control systems: See the drawing of CP-8-06

3.3.3. Electric propulsion motor

3.3.3.1. Number of electric motors for propulsion: 1

3.3.3.2. Type (winding, excitation): winding

- 3.3.3.3. Operating voltage: 72V
- 3.3.3.4. 45/30 minutes power:
2.0 kW at 400 min⁻¹
- 3.3.4. Propulsion batteries
 - 3.3.4.1. Primary propulsion battery
 - 3.3.4.1.1. Number of cells: 1
 - 3.3.4.1.2. Mass: Version 0: 41 kg version 1: 10 kg
 - 3.3.4.1.3. Capacity: 20 Ah
 - 3.3.4.1.4. Voltage: 72V
 - 3.3.4.1.5. Position in the vehicle:
See the drawing of CP-8- 07
 - 3.3.4.2. Secondary propulsion battery: N.A.
- 3.3.5. Hybrid electric vehicle: N.A.
- 3.3.6. Energy storage device
 - 3.3.6.1. Description: (battery, capacitor, flywheel/generator)
 - 3.3.6.2. Identification number: 72V 20Ah
 - *3.3.6.3. Kind of electrochemical couple: lead-acid battery
 - 3.3.6.4. Energy (for battery: voltage and capacity Ah in 2h, for capacitor: J,..., for flywheel/generator: J,...):
20Ah, 72V
 - 3.3.6.5. Charger: ~~on-board/external/without~~
- 3.3.7. Electric motor (describe each type of electric motor separately)
 - 3.3.7.1. Primary use: propulsion motor/~~generator~~
 - 3.3.7.2. When used as propulsion motor: single-motor
 - 3.3.7.3. Working principle:

The basic rotation of the motor depends on the position information detected by the rotor position sensor and then drives the electric power switch device connected

with the armature winding to turn off or turn on by the electronic commutation circuit so as to control the energization state of the winding, and generates a continuous rotating magnetic field on the stator to rotate the rotor.

With the rotation of the rotor, the sensor signal is constantly fed back to the chip, the main chip to change the armature winding power state, so that the magnetic pole in each winding under the same direction of current. So it can generate a constant torque, and make the motor continuous rotation up and running

3.3.7.4. Direct current/alternating current/number of phases: Direct current

3.3.7.5. Separate excitation/series/compound: series

3.3.7.6. Synchronous/asynchronous: Synchronous

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3.3.8. Electric motor control unit

3.3.8.1. Identification number:

ZJCP12-72V-YTC

3.3.9. Power controller

3.3.9.1. Identification number: N.A.

3.4. Other engines, electric motors or combinations
(specific information concerning the parts of these motors)

3.4.1. Cooling system (temperatures permitted by the manufacturer): N.A.

3.4.1.1. Liquid cooling: N.A.

3.4.1.1.1. Maximum temperature at outlet: N.A.

3.4.1.2. Air cooling: N.A.

3.4.1.2.1. Reference point: N.A.

3.4.1.2.2. Maximum temperature at reference point: N.A.

3.4.2. Lubrication system: N.A.

3.4.2.1. Description of lubrication system: N.A.

3.4.2.2. Location of oil reservoir (if any): N.A.

3.4.2.3. Feed system (pump/injection into induction system/mixed with the fuel, etc.): N.A.

3.4.2.4. Lubricant mixed with the fuel: N.A.

3.4.2.4.1. Percentage: N.A.

3.4.2.5. Oil cooler: ~~yes/no~~ N.A.

3.5. Drive-train control

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3.5.1. Brief description and schematic drawing of the vehicle drive-train and its control system (gear shift control, clutch control or any other element of drive-train):

See the drawing of CP-8-09

3.5.2. Clutch

3.5.2.1. Brief description and schematic drawing of the clutch and its control system:

N.A.

3.5.3. Transmission

3.5.3.1. Brief description and schematic drawing of gear shift system(s) and its control:

N.A.

3.5.3.2. Drawing of the transmission: N.A.

3.5.3.3. Type (~~mechanical, hydraulic, electric, manual/manual-automated/automatic/CVT~~ /other (indicate).): wheel hub engine(motor).

3.5.3.4. A brief description of the electrical/electronic components (if any): N.A.

3.5.3.5. Location relative to the engine: N.A.

3.5.3.6. Method of control: ~~by hand/foot~~ N.A

3.5.4. Gear ratios: N.A.

3.5.4.1. (L3e-AxE, L3e-AxT) Final drive ratio: N.A.

3.5.4.2. (L3e-AxE, L3e-AxT) Overall gear ratio in highest gear: N.A.

3.6. Safe-cornering device: N.A.

3.7. Suspension and control

3.7.1. Brief description and schematic drawing of suspension and its control system:

See the drawing of CP-8-10, CP-8-11

3.7.2. Drawing of the suspension arrangements:

See the drawing of CP-8-10, CP-8-11

3.7.3. Level adjustment: ~~yes/ no/ optional~~

3.7.4. Brief description of the electrical/electronic components: N.A.

3.7.5. Stabilisers: ~~yes/ no/ optional~~

3.7.6. Shock absorbers: ~~yes/ no/ optional~~

- 3.8. Passenger-compartment heating system and air-conditioning: N.A.
- 3.9. Cycles designed to pedal: N.A. e13*168/2013*00952*01
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4. GENERAL INFORMATION ON ENVIRONMENTAL AND PROPULSION PERFORMANCE

4.0. General information on environmental and propulsion performance

4.0.1. Environmental step: Euro (~~3/4/5/5+~~)

4.0.2 Fuel consumption (provide details for each reference fuel tested): N.A.

4.0.3 CO₂ emissions: N.A.

4.0.4 Energy consumption:

Version 0: 40 Wh/km
Version 1: 29 Wh/km

4.0.5 Electric range:

Version 0: 44 km
Version 1: 50 km

4.1. Tailpipe emission-control system: N.A.

4.2. Crankcase emission control system: N.A.

4.3. Evaporative emission control system: N.A.

4.4. Additional information on environmental and propulsion unit performance: N.A.

5. VEHICLE PROPULSION FAMILY: N.A.

5.1. To define the vehicle propulsion family, the manufacturer shall submit the information required for classification criteria set out in point 3 of Annex XI to Commission Delegated Regulation (EU) No 134/2014, if not already provided in the information document: N.A.

6. INFORMATION ON FUNCTIONAL SAFETY

6.1. Audible warning devices

6.1.1. Summary description of device(s) used and their purpose:

| Make | Type | Approval Number | Description |
|------|---------|-----------------|---|
| LVEE | DL70-II | E32-28R-00 0002 | Electro-magnetic with resonator disc, single-tone |

6.1.2. Drawing(s) showing the location of the audible warning device(s) in relation to the structure

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See the drawing of CP-8-12

6.1.3. Details of the method of attachment, including the part of the vehicle structure to which the audible warning device(s) is (are) attached:

See the drawing of CP-8-12

6.1.4. Electrical/pneumatic circuit diagram: See the drawing of CP-8-13

6.1.4.1. Voltage: ~~AC~~/DC

6.1.4.2. Rated voltage pressure: 12V

6.1.5. Drawing of the mounting device: See the drawing of CP-8-12

6.2. Braking, including anti-lock and combined braking systems

6.2.1. Characteristics of the brakes, including details and drawings of the drums, discs, hoses, make and type of shoe/pad assemblies and/or linings, effective braking areas, radius of drums, shoes or discs, mass of drums, adjustment devices, relevant parts of the axle(s) and suspension, levers, pedals:

See the drawing of CP-8-14-1, CP-8-14-2, CP-8-14-3

6.2.2. Operating diagram, description and/or drawing of the braking system, including details and drawings of the transmission and controls as well as a brief description of the electrical and/or electronic components used in the braking system:

See the drawing of CP-8-14-1, CP-8-14-2, CP-8-14-3

6.2.2.1. Front, rear ~~and side~~ car brakes, disc and/or drum:

Front: disc
Rear: disc

6.2.2.2. Parking braking system: N.A.

6.2.2.3. Any additional braking system: N.A.

6.2.3. Vehicle is equipped to tow a trailer with no brake/overrun brake/electric/pneumatic/hydraulic service brakes: N.A.

6.2.4. Anti-lock/Combined braking system

6.2.4.1. Anti-lock braking system: ~~yes/no/optional~~

6.2.4.2. Combined braking system: ~~yes/no/optional~~

6.2.4.3. Anti-lock and combined braking system: ~~yes/no/optional~~

6.2.4.4. Schematic drawing(s):

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6.2.5. Hydraulic reservoir(s) (volume and location):

See the drawing of CP-8-14-1, CP-8-14-2

6.2.6. Particular characteristics of the braking system(s)

6.2.6.1. Brake shoes and/or pads:

See the drawing of CP-8-14-3

6.2.6.2. Linings and/or pads (indicate make, type, grade of material or identification mark):

See the drawing of CP-8-14-3

6.2.6.3. Brake levers and/or pedals:

See the drawing of CP-8-14-1, CP-8-14-2

6.2.6.4. Other devices (where applicable): drawing and description: N.A.

6.3. Electrical safety:

6.3.1. Brief description of the power circuit components installation and drawings/photographs showing the location of the power circuit components installation:

See the drawing of CP-8-15

6.3.2. Schematic diagram of all electrical functions included in power circuit:

See the drawing of CP-8-13

6.3.3. Working voltage(s): 72V

6.3.4. Description of protection against electric-shocks: N.A.

6.3.5. Fuse and/or circuit breaker: ~~yes/no/optional~~

6.3.5.1. Diagram showing the functional range: 45 A

6.3.6. Configuration of power wiring harness: See the drawing of CP-8-13

6.4. Front and rear protective structures: N.A.

6.5. Glazing, windscreen wipers and washers, and defrosting and demisting systems: N.A.

6.6. Windscreen wiper(s): N.A.

6.7. Windscreen washer: N.A.

6.8. Defrosting and demisting: N.A.

6.9. Driver-operated controls including identification of controls, tell- tales and indicators

6.9.1. Arrangement and identification of controls, tell-tales and indicators:

See the drawing of CP-8-16

6.9.2. Photographs and/or drawings of the arrangement of symbols and controls, tell-tales and indicators:

See the drawing of CP-8-16

6.9.3. Controls, tell-tales and indicators for which, when fitted, identification is mandatory, including the identification symbols to be used for that purpose: See table 6.9.4.

6.9.4. Summary table: the vehicle is equipped with the following driver-operated controls, including indicators and tell-tales: See table 6.9.4.

6.9.5. Controls, tell-tales and indicators for which, when fitted, identification is optional, and symbols which shall be used if they are to be identified: See table 6.9.5.

6.10. Speedometer and odometer

6.10.1. Speedometer

6.10.1.1. Photographs and/or drawings of the complete system:

See the drawing of CP-8-17

6.10.1.2. Vehicle speed range displayed: 0~80 km/h

6.10.1.3. Tolerance of the measuring mechanism of the speedometer: 0~5%

6.10.1.4. Technical constant of the speedometer:

24000pulse/min=40km/h

6.10.1.5. Method of operation and description of the drive mechanism:

Directly connect to the controller, to drive speedometer through the signal from controller.

6.10.1.6. Overall transmission ratio of the drive mechanism: N.A

6.10.2. Odometer

6.10.2.1. Tolerance of the measuring mechanism of the odometer: 0~+2%

6.10.2.2. Method of operation and description of the drive mechanism:

Directly connect to the controller, to drive odometer through the signal from controller.

6.11. Installation of lighting, light-signaling devices, including automatic switching of lighting

6.11.1. List of all devices (mentioning the number, make(s), type, component type- approval mark(s), the maximum intensity of the main-beam headlamps, colour, the corresponding tell-tale): See table 6.11.1.

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6.11.2. Diagram showing the location of the lighting and light-signaling devices:

See the drawing of CP-8-18

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6.11.3. Hazard warning lamps: no

6.11.4. Brief description of the electrical and/or electronic components used in the lighting system and in the light-signaling system: N.A.

6.11.5. For every lamp and reflector, supply the following information (in writing and/or by diagram):

6.11.5.1. Drawing showing the extent of the illuminating surface:

See lightings component type-approval

6.11.5.2. Method used to define the apparent surface in accordance with point 2.10 of UNECE Regulation No 48 (OJ L 323, 6.12.2011, p. 46): The light-emitting surface

6.11.5.3. Axis of reference and centre of reference: See lighting component type-approval

6.11.5.4. Method of operation of concealable lamps: N.A.

6.11.6. Description/drawing and type of headlamp leveling device (e.g. automatic, stepwise manually adjustable, continuously manually adjustable): N.A.

6.11.6.1. Control device: N.A.

6.11.6.2. Reference marks: N.A.

6.11.6.3. Marks assigned for loading conditions: N.A.

6.12. Rearward visibility

6.12.1. Rear-view mirrors (stating for each mirror)

6.12.1.1. Drawing(s) for the identification of the mirror showing the position of the mirror relative to the vehicle structure:

See the drawing of CP-8-19

6.12.1.2. Details of the method of attachment including that part of the vehicle structure to which it is attached

Fixed on handle with double thread bush.
Rear-view mirror rotation in every sense of rotation.

6.12.1.3. A brief description of the electronic components of the adjustment system: N.A.

6.12.2. Devices for indirect vision other than mirrors: N.A.

6.12.2.1. Description of the device: N.A.

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- 6.12.2.2. In the case of a camera-monitor device, the detection distance (mm), contrast, luminance range, glare correction, display performance (black and white/colour), image repetition frequency, luminance reach of the monitor: N.A.
- 6.12.2.3. Sufficiently detailed drawings to identify the complete device, including installation instructions; the position for the EU type-approval mark has to be indicated on the drawings: N.A.
- 6.13. Rollover protective structure (ROPS): N.A.
- 6.14. Safety belts and/or other restraints: N.A.
- 6.15. Safety belt anchorages: N.A.
- 6.16. Seating positions (saddles and seats)
 - 6.16.1. Number of positions: N.A.
 - 6.16.1.1. (L2e, L5e, L6e, L7e) Location and arrangement: N.A.
 - 6.16.2. Seating position configuration: ~~seat~~/saddle
 - 6.16.3. Description and drawings of:
 - 6.16.3.1. The seats and their anchorages: N.A.
 - 6.16.3.2. The adjustment system: N.A.
 - 6.16.3.3. The displacement and locking systems: N.A.
 - 6.16.3.4. The seat-belt anchorages incorporated in the seat structure: N.A.
 - 6.16.3.5. The parts of the vehicle used as anchorages: N.A.
 - 6.16.4. (L2e, L4e, L5e-B, L6e-B, L7e) Coordinates or drawing of the R-point(s) of all seating positions: N.A.
 - 6.16.4.1. (L2e, L4e, L5e-B, L6e-B, L7e) Driver's seat: N.A.
 - 6.16.4.2. (L2e, L4e, L5e-B, L6e-B, L7e) All other seating positions: N.A.
 - 6.16.5. Design torso angle: N.A.
 - 6.16.5.1. Driver's seat: N.A.
 - 6.16.5.2. All other seating positions: N.A.
 - 6.16.6. Range of seat adjustment: N.A.
 - 6.16.6.1. Driver's seat: N.A.
 - 6.16.6.2. All other seating positions: N.A.

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6.17. Steer-ability, cornering properties and turn-ability

6.17.1. Schematic diagram of steered axle(s) showing steering geometry:

See the drawing of CP-8-20

6.17.2. Transmission and control of steering

6.17.2.1. Configuration of steering transmission (specify for front and rear):

See the drawing of CP-8-20

6.17.2.2. Linkage to wheels (including other than mechanical means; specify for front and rear): See the drawing of CP-8-20

6.17.2.2.1. A brief description of the electrical/electronic components: N.A.

6.17.2.3. Diagram of the steering transmission: See the drawing of CP-8-20

6.17.2.4. (L2e, L5e, L6e, L7e) Schematic diagram(s) of the steering control(s): N.A.

6.17.2.5. (L2e, L5e, L6e, L7e) Range and method of adjustment of the steering control(s): N.A.

6.17.2.6. (L2e, L5e, L6e, L7e) Method of assistance: N.A.

6.17.3. Maximum steering angle of the wheels

6.17.3.1. To the right: 40°; ~~number of turns of the steering wheel (or equivalent data):~~

6.17.3.2. To the left: 40°; ~~number of turns of the steering wheel (or equivalent data):~~

6.18. Tyres/wheels combination

6.18.1. Tyres:

6.18.1.1. Size designation

6.18.1.1.1. Axle 1: See table 6.18.

6.18.1.1.2. Axle 2: See table 6.18.

6.18.1.1.3. (L4e) Sidecar wheel: N.A.

6.18.1.2. Minimum load-capacity index:

Front: 28

Rear: 45

6.18.1.3. Minimum-speed category symbol compatible with the theoretical maximum design vehicle speed: B (50km/h)

6.18.1.4. Tyre pressure(s) as recommended by the vehicle manufacturer: See table 6.18.

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6.18.2. Wheels:

6.18.2.1. Rim size(s): See table 6.18.

6.18.2.2. Categories of use compatible with the vehicle: Normal

6.18.2.3. Nominal rolling circumference: See table 6.18.

6.19. Vehicle maximum speed limitation plate and its location on the vehicle: N.A.

6.20. Vehicle occupant protection, including interior fittings and vehicle doors: N.A.

6.21. Maximum continuous total power and/or maximum vehicle speed limitation by design.

6.21.1. Propulsion and/or drive-train output governors:

6.21.1.1. Number (minimum two, exemption L3e-A3 and L4e-A3): Two

6.21.1.2. How is the redundancy of governors ensured:

(1) reduction of the maximum power output of one electric motors based on the vehicle or rotation speed as sensed internally to the electric motor

(2) reduction of the maximum power output of one or more electric motors based on the actual vehicle speed as sensed fully externally to the electric motor

6.21.1.3. Nominal cut-off point no 1:

6.21.1.3.1. Engine/motor/drive-train rotation speed at which cut-off starts under load:

480 min⁻¹

6.21.1.3.2. Maximum rotation speed at the minimum engine load:

480 min⁻¹

6.21.1.4. Nominal cut-off point no 2:

6.21.1.4.1. Engine/motor/drive-train rotation speed at which cut-off starts under load:

480 min⁻¹

6.21.1.4.2. Maximum rotation speed at the minimum engine load:

480 min⁻¹

6.21.1.5. The stated purpose of governor(s): maximum design vehicle speed limitation/~~maximum power limitation/engine over-speed protection~~

7. INFORMATION ON VEHICLE CONSTRUCTION

7.1. Coupling devices and attachments: N.A.

7.1.1. L-category vehicle equipped with coupling device: ~~yes/no/optional~~ N.A.

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- 7.1.2. Guidelines and information for consumers in all EU languages regarding the impact on the driveability of using a trailer with an L-category vehicle included in the owner's manual: ~~yes~~/no N.A.
- 7.1.3. For coupling-device approved as separate technical unit: installation and operating instructions added to documentation: ~~yes~~/no N.A.
- 7.1.4. Photographs and/or drawings showing the position and the construction of the coupling-devices: ~~yes~~/no N.A.
- 7.1.5. Instructions for attaching the coupling-type to the vehicle and photographs or drawings of the fixing points on the vehicle as stated by the manufacturer; additional information, if the use of the coupling-type is restricted to certain variants or versions of the vehicle type: N.A.
- 7.1.6. Attachment points for a secondary coupling and/or breakaway cable (drawings and pictures may be used as appropriate): ~~yes~~/no N.A.
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Société Nationale de Certification et d'Homologation
- 7.2. Devices to prevent unauthorised use
- 7.2.1. Protective device
- 7.2.1.1. Summary description of protective device(s) used:
The device solely and positively operates on the steering alone.
See the drawing of CP-8-21
- 7.2.2. Vehicle immobiliser:
- 7.2.2.1. Technical description of the vehicle immobiliser and of the measures taken against inadvertent activation: N.A
- 7.2.3. Alarm system: N.A
- 7.2.3.1. Description of the alarm system and of the vehicle parts involved in installation: N.A
- 7.2.3.2. List of the main components comprising the alarm system: N.A
- 7.3. Electromagnetic compatibility (EMC)
- 7.3.1. Requirements under UNECE Regulation No 10 (OJ L 254, 20.9.2012, p. 1) are met with relevant documentation included in the information document: N.A.
- 7.3.2. Table or drawing of radio-interference control equipment:
See the drawing of CP-8-15
- 7.3.3. Particulars of the nominal value of the direct-current resistance, and, in the case of resistive ignition cables, of their nominal resistance per metre: 0.0048Ω/m
- 7.4. External projections
- 7.4.1. (L1e-L7e vehicles with bodywork)

General arrangement (drawing or photographs accompanied if necessary by dimensional details and/or text) indicating the position of the attached sections and views, of any parts of the exterior surface which can be regarded as critical for external projections, for example, and where relevant: bumpers, floor line, door and window pillars, air-intake grilles, radiator grille, windscreen wipers, rain gutter channels, handles, slide rails, flaps, door hinges and locks, hooks, eyes, winches, decorative trim, badges, emblems and recesses and any other parts of the exterior surface which can be regarded as critical (e.g. lighting equipment): N.A.

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7.5. Fuel storage

7.5.1. Fuel tank(s)

7.5.2. Compressed natural gas (CNG) container(s): N.A.

7.5.3. Liquefied petroleum gas (LPG) container(s): N.A.

7.6. On-board diagnostics (OBD) functional requirements: N.A.

7.7. Passenger handholds and footrests

7.7.1. Handholds

7.7.1.1. Configuration: ~~strap and/or~~ handle

7.7.1.3. Photographs and/or drawings showing the location and the construction:

See the drawing of CP-8-22

7.7.2. Footrests

7.7.2.1. Photographs and/or drawings showing the location and the construction:

See the drawing of CP-8-23

7.8. Registration plate space

7.8.1. Location of rear registration plate (indicate variants where necessary; drawings may be used as appropriate):

See the drawing of CP-8-24

7.8.1.1. Height above road surface, upper edge: See the drawing of CP-8-24

7.8.1.2. Height above road surface, lower edge: See the drawing of CP-8-24

7.8.1.3. Distance of the centre line from the longitudinal median plane of the vehicle: 0

7.8.1.4. Dimensions (length x width): See the drawing of CP-8-24

7.8.1.5. Inclination of the plane to the vertical: See the drawing of CP-8-24

7.8.1.6. Angle of visibility in the horizontal plane:

To the left and to the right of the plate of 30°and more.

7.9. Stands

7.9.1. (L1e, L3e) Configuration: Side [e13*168/2013*00952*01](#)
[Société Nationale de Certification et d'Homologation](#)

7.9.2. (L1e, L3e) Construction material used: Steel

7.9.3. (L1e, L3e) Photographs and drawings showing the location of the stand(s) in relation to the structure of the vehicle:

See the drawing of CP-8-25

7.9.4. (L1e, L3e) Description of the method to prevent contact of the stand with the ground when the vehicle is being propelled :

Side stand switch

Table 6.9.4.

Controls, tell-tales and indicators for which, when fitted, identification is mandatory, and symbols to be used for that purpose

| Symbol No. | Device | Control /indicator available (*) | Identified by symbol(*) | Where (**) | Tell-tale available (*) | Identified by symbol(*) | Where (**) |
|------------|--------------------------------------|----------------------------------|-------------------------|------------|-------------------------|-------------------------|------------|
| 1 | Maser light | - | - | - | - | - | - |
| 2 | Dipped-beam head lamps | x | x | c | - | - | - |
| 3 | Main-beam head lamps | x | x | c | x | x | d |
| 4 | Position (side) lamps | - | - | - | - | - | - |
| 5 | Front fog lamps | - | - | - | - | - | - |
| 6 | Rear fog lamps | - | - | - | - | - | - |
| 7 | Headlamp leveling device | - | - | - | - | - | - |
| 8 | Parking lamps | - | - | - | - | - | - |
| 9 | Direction indicators | x | x | c | x | x | d |
| 10 | Hazard warning | - | - | - | - | - | - |
| 11 | Windscreen wiper | - | - | - | - | - | - |
| 12 | Windscreen washer | - | - | - | - | - | - |
| 13 | Windscreen wiper and washer | - | - | - | - | - | - |
| 14 | Headlamp cleaning device | - | - | - | - | - | - |
| 15 | Windscreen demisting and defrosting | - | - | - | - | - | - |
| 16 | Rear window demisting and defrosting | - | - | - | - | - | - |
| 17 | Ventilating fan | - | - | - | - | - | - |
| 18 | Diesel pre-heat | - | - | - | - | - | - |
| 19 | Choke | - | - | - | - | - | - |
| 20 | Brake failure | - | - | - | - | - | - |
| 21 | Fuel level | - | - | - | - | - | - |
| 22 | Battery charging condition | x | x | c | - | - | - |
| 23 | Engine coolant temperature | - | - | - | - | - | - |
| 24 | Malfunction indicator light (MI) | - | - | - | - | - | - |

(*) x = yes

- = no or not separately available

o = optional

(**) d = directly on control, indicator or tell-tale

c = in close vicinity

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Table 6.9.5.

Controls, tell-tales and indicators for which, when fitted, identification is optional, and symbols which shall be used if they are to be identified

| Symbol No. | Device | Control /indicator available (*) | Identified by symbol(*) | Where (**) | Tell-tale available (*) | Identified by symbol(*) | Where (**) |
|------------|-------------------------------|----------------------------------|-------------------------|------------|-------------------------|-------------------------|------------|
| 1 | Parking brake | - | - | - | - | - | - |
| 2 | Rear window wiper | - | - | - | - | - | - |
| 3 | Rear window washer | - | - | - | - | - | - |
| 4 | Rear window wiper and washer | - | - | - | - | - | - |
| 5 | Intermittent windscreen wiper | - | - | - | - | - | - |
| 6 | Audible warning device (horn) | x | x | d | - | - | - |
| 7 | Front hood (bonnet) | - | - | - | - | - | - |
| 8 | Rear hood (boot) | - | - | - | - | - | - |
| 9 | Seat belt | - | - | - | - | - | - |
| 10 | Engine oil pressure | - | - | - | - | - | - |
| 11 | Unleaded petrol | - | - | - | - | - | - |
| 12 | Neutral indicator | - | - | - | - | - | - |
| 13 | Optical warning device | - | - | - | - | - | - |
| 14 | Ignition switch | x | x | d | - | - | - |
| 15 | External cord connect | - | - | - | - | - | - |
| 16 | Electric motor enabled | - | - | - | x | x | d |
| 17 | Cruise control | - | - | - | - | - | - |
| 18 | Battery failure | - | - | - | - | - | - |
| 19 | Reversing switch | x | x | d | - | - | - |
| 20 | Parking button | - | - | - | - | - | - |
| 21 | Gear selection | x | x | c | x | x | d |

(*) x = yes

- = no or not separately available

o = optional

(**) d = directly on control, indicator or tell-tale

c = in close vicinity

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Table 6.11.1. Société Nationale de Certification et d'Homologation

List of all devices (mentioning the number, make(s), type, component type- approval mark(s), the maximum intensity of the main-beam headlamps, colour, the corresponding tell-tale)

| DEVICES | MAKE/MODEL | NUMBER/ COLOUR | TELL-TALE | APPROVAL NUMBER | MAXIMUM INTENSITY |
|--|-------------------------|-------------------|----------------|--------------------------------|----------------------|
| PASSING/DRIVING BEAM HEADLAMP(OPTION 1) | LING MA / IM-H-KM02 | 1 / white | * | E13*113R00*113 R01*34875*00 | 32250 |
| FRONT POSITION LAMP(OPTION 1) | | 1 / white | * | E13*50R00* 50R00*34875*00 | ---- |
| PASSING/DRIVING BEAM HEADLAMP(OPTION 2) | LING MA / IM-H-KM101 | 1 / white | * | E13*113R00*113 R01*14250*00 | 32250 |
| FRONT POSITION LAMP(OPTION 2) | | 1 / white | * | E13*50R00*50R 00*14250*00 | ---- |
| FRONT & REAR DIRECTION INDICATOR(OPTION 1) | LING MA / IM-D-KM02 | 2 /amber | YES / Green | E13*50R00*50R 00*34877*00 | ---- |
| FRONT & REAR DIRECTION INDICATOR(OPTION 2) | LING MA / YM-D-ZM101 | 2 /amber | YES / Green | E13*50R00*50R 00*13864*00 | |
| REAR POSITION LAMP | LING MA / IM-W-KM101 | 1 / red | * | E13*50R00*50R | ---- |
| STOP LAMP | | 1 / red | NO | 00*14251*00 | ---- |
| REAR REGISTRATION PLATE LAMP | LING MA / IM-P-KM101 | 1 / white | * | E13*50R00*50R 00*14252*00 | ---- |
| REAR RETRO-REFLECTOR | SHIJIN / SJ-F02 | 1 / red | NO | E4-3R-023257 | ---- |
| SIDE RETRO-REFLECTOR | SHIJIN / SJ-F01 | 2 / amber | NO | E4-3R-023256 | ---- |

*Instrument panel illumination

Table 6.18.
Tyres/wheels combination

| Axle | Type approval number | Dimension | Max. loading | Speed Category | Rims | Nominal rolling circumference | Tyre pressure |
|-------|-------------------------|-----------|-----------------|-------------------|-----------|-------------------------------------|------------------|
| Front | E9*75R00/17* 1205*00 | 130/70-12 | 62 | J | MT2.50X12 | 1560mm | 250 kPa |
| Rear | E9*75R00/17* 1205*00 | 130/70-12 | 62 | J | MT2.50X12 | 1560mm | 250 kPa |

INDEX OF DRAWINGS

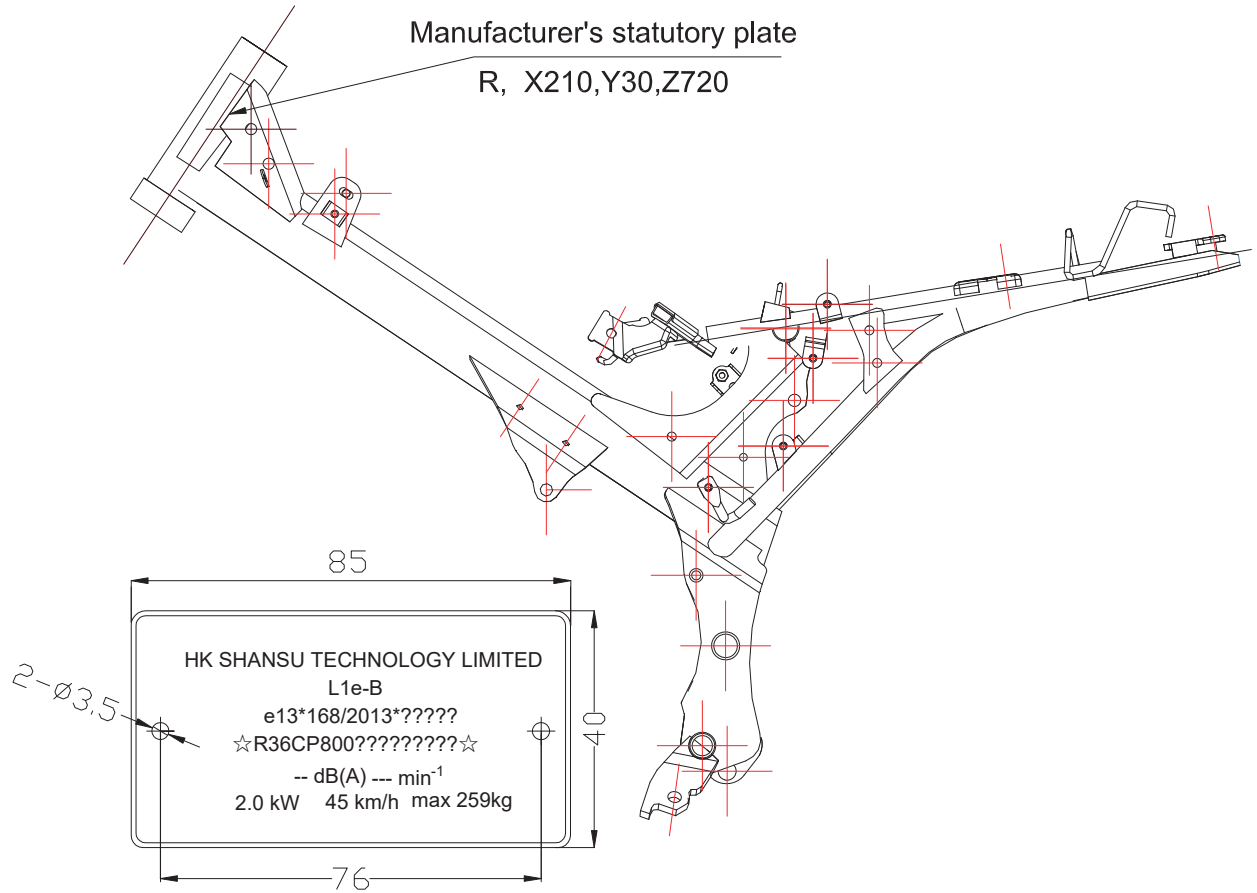
| Drawing No | Drawing description |
|------------|--|
| CP-8-01 | Manufacturer's Statutory Plate |
| CP-8-02 | Vehicle Identification Number |
| CP-8-03 | Photos of A Representative Vehicle |
| CP-8-04 | Dimension Measured on Vehicle |
| CP-8-05 | Frame |
| CP-8-06 | Electric Motor |
| CP-8-07 | Location of The Propulsion Batteries |
| CP-8-08 | Controller |
| CP-8-09 | Drive train |
| CP-8-10 | Front suspension |
| CP-8-11 | rear suspension |
| CP-8-12 | Location of The Audible Warning Device |
| CP-8-13 | Electrical Circuit Diagram |
| CP-8-14-1 | Front Brake System |
| CP-8-14-2 | Rear brake System |
| CP-8-14-3 | Front and rear Brake pad |
| CP-8-15 | Power Circuit Components Installation |
| CP-8-16 | Controls, Tell-tales and Indicators |
| CP-8-17 | Speedometer and odometer |
| CP-8-18 | Location of Lights |
| CP-8-19 | Location of Rear View Mirror |
| CP-8-20 | Transmission and Control of Steering |
| CP-8-21 | Protective Device |
| CP-8-22 | Handhold |
| CP-8-23 | Footrest |
| CP-8-24 | Rear Registration Plate |
| CP-8-25 | Side Stand |

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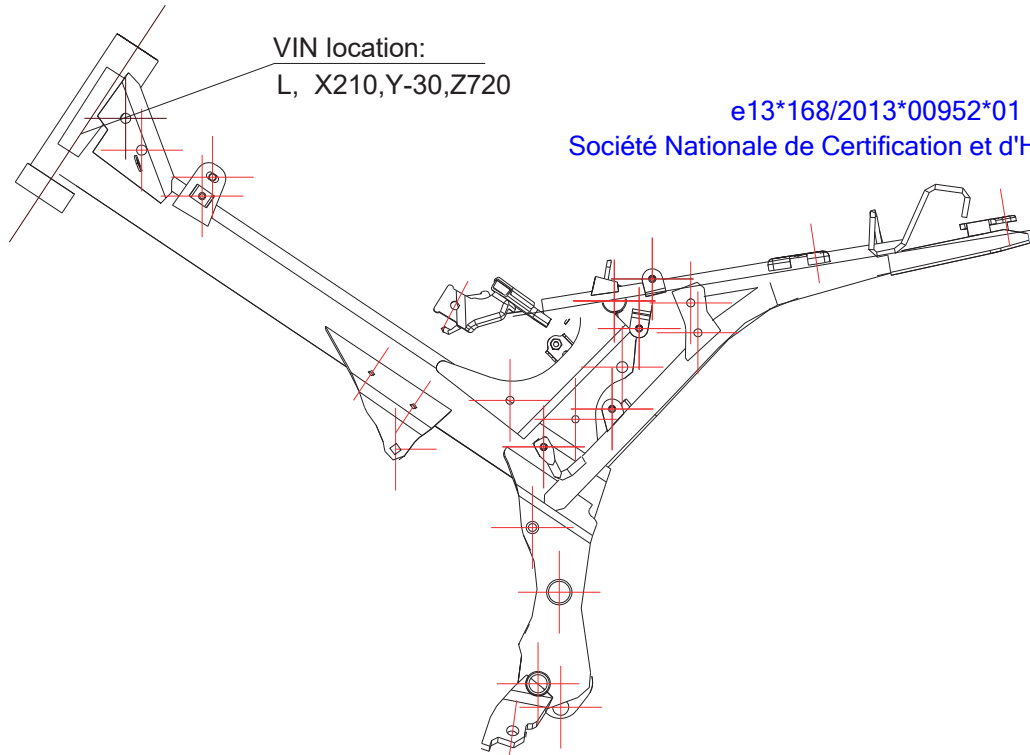
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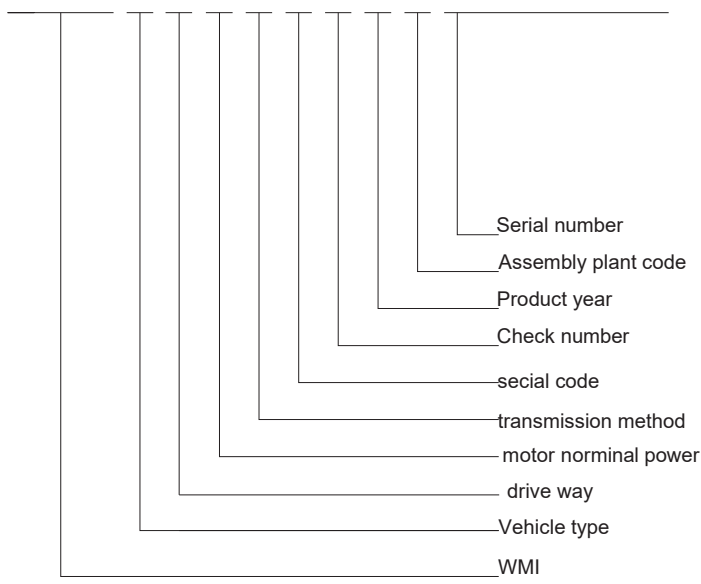
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| | |
|--------------------------------|---------|
| Vehicle Type | CP-8 |
| Manufacturer's Statutory Plate | |
| Drawing NO. | CP-8-01 |



☆ R 3 6 C P 8 0 0 ? ? ? ? ? ? ? ? ☆



- Serial number
- Assembly plant code
- Product year
- Check number
- social code
- transmission method
- motor normal power
- drive way
- Vehicle type
- WMI

| | |
|-------------------------------|---------|
| Vehicle Type | CP-8 |
| Vehicle Identification Number | |
| Drawing NO. | CP-8-02 |



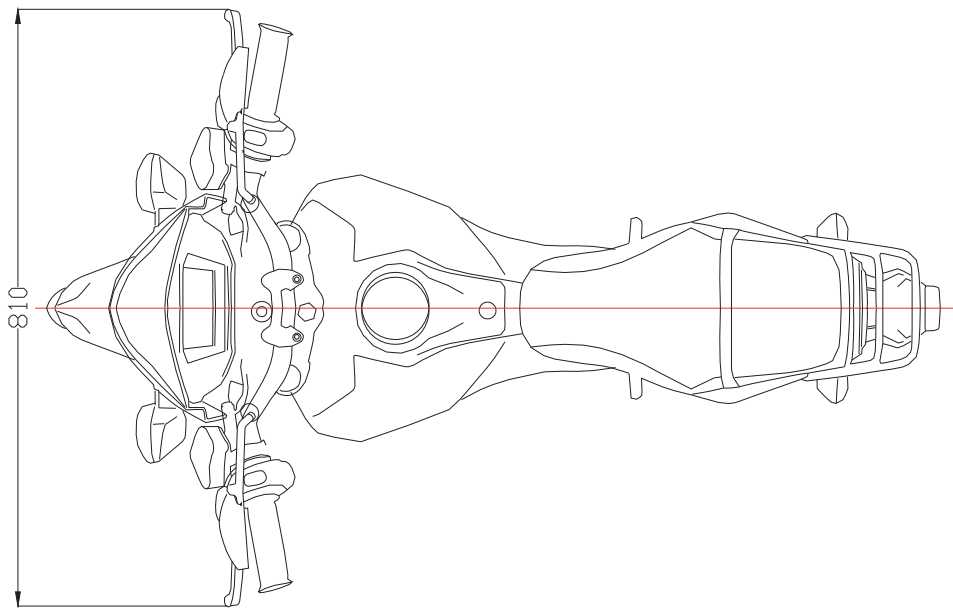
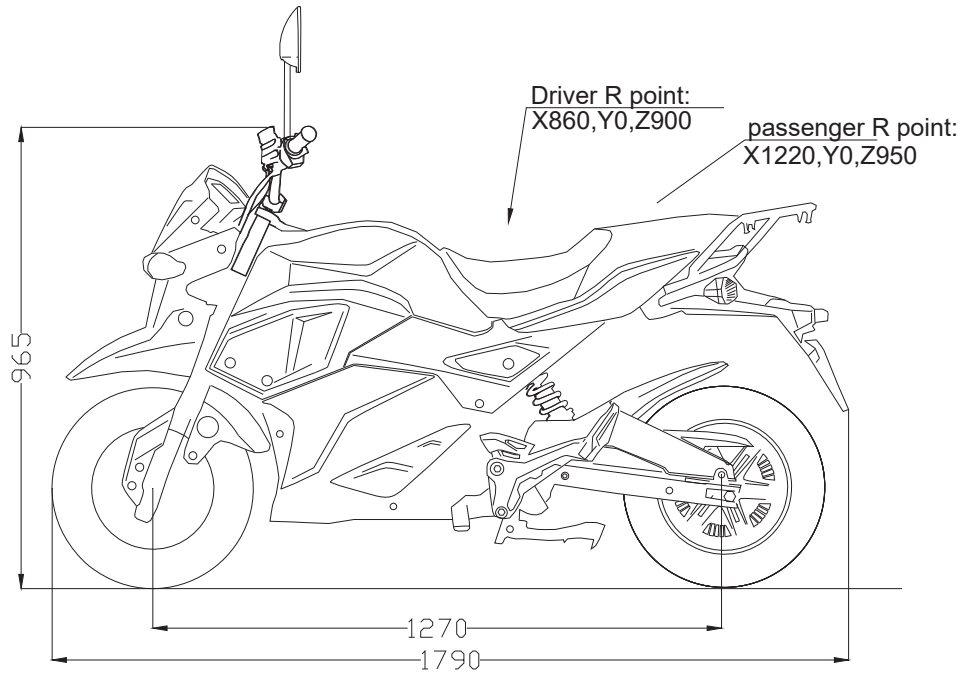
Option 1 appearance 1

Option 2 appearance 2

| | |
|------------------------------------|---------|
| Vehicle Type | CP-8 |
| Photos of A Representative Vehicle | |
| Drawing NO. | CP-8-03 |

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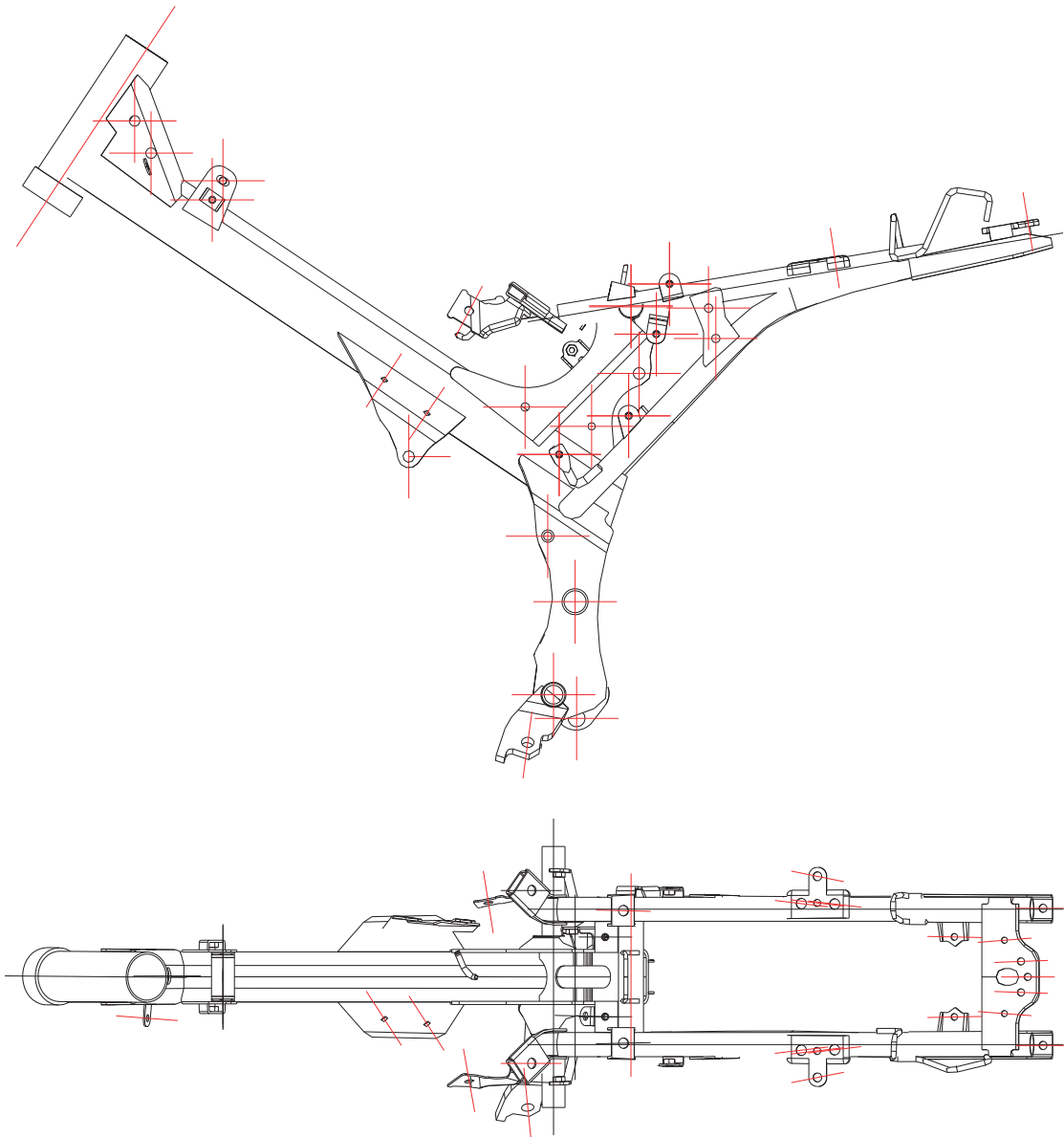
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| | |
|-------------------------------|---------|
| Vehicle Type | CP-8 |
| Dimension Measured on Vehicle | |
| Drawing NO. | CP-8-04 |

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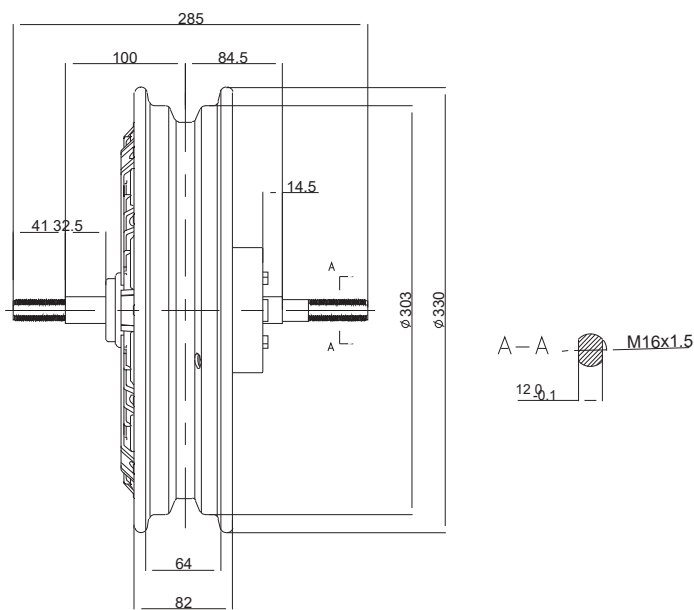
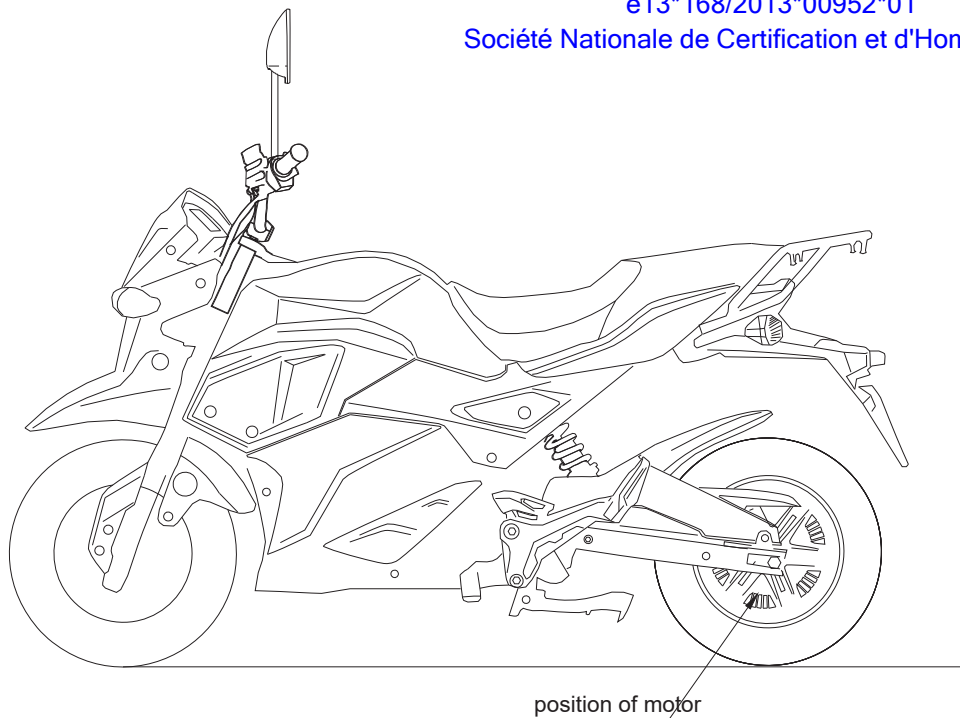
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Material:STEEL

| | |
|---------------------|---------|
| Vehicle Type | CP-8 |
| Frame | |
| Drawing NO. | CP-8-05 |

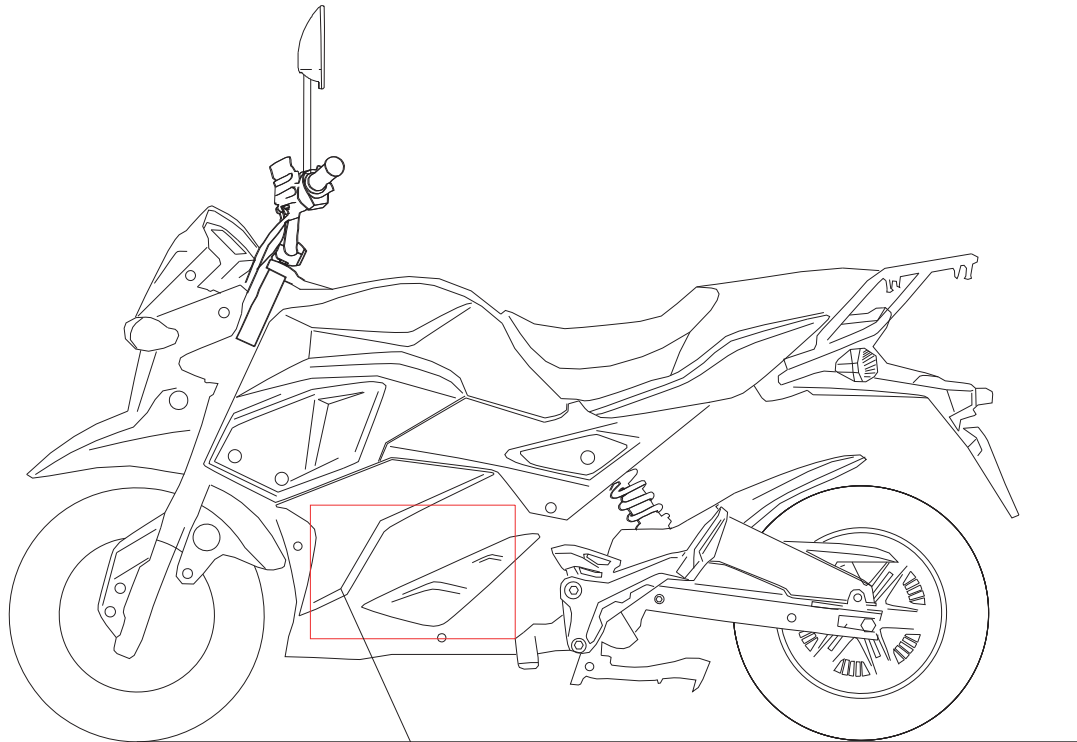
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Make: YANHUANG
Type: CP830H
Manufacturer: Yongkang Yanhuang Trading Co., Ltd.

| | |
|---------------------|---------|
| Vehicle Type | CP-8 |
| Electric Motor | |
| Drawing NO. | CP-8-06 |

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top view

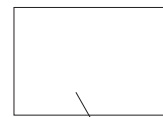


6 lead-acid battery

version 0

location of battery

top view



1 lithium battery
355mm*225mm*90mm

version 1

Make: version 0:XUPAI version 1:JUBANG

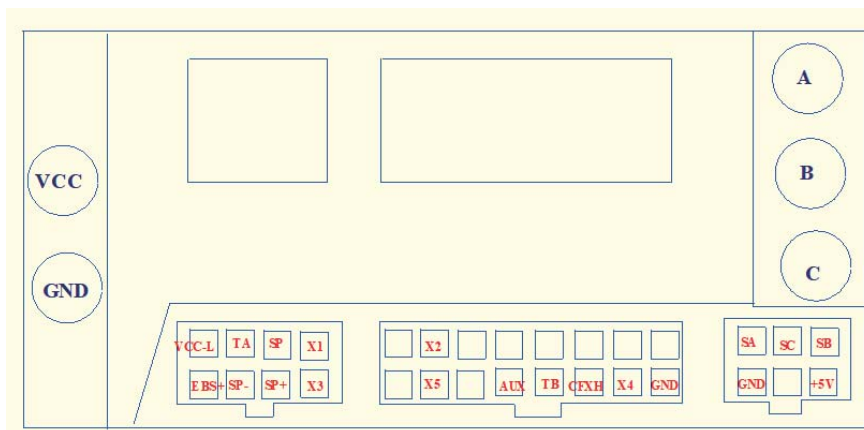
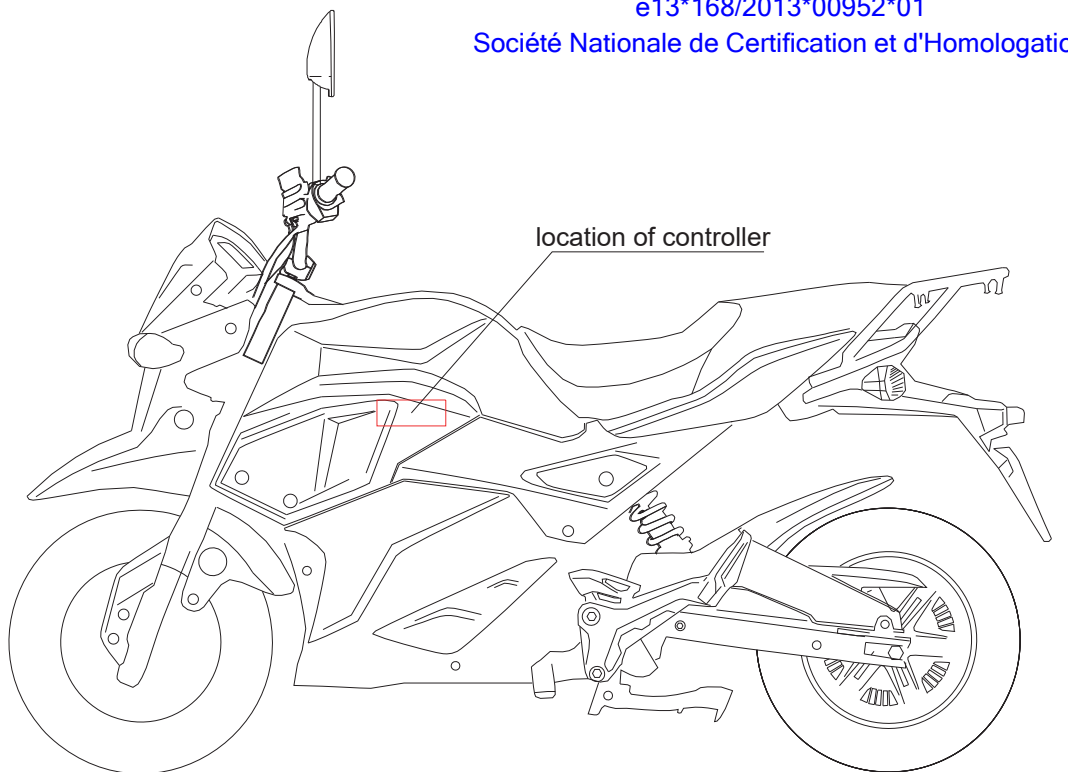
Type:72V20Ah

Manufacturer: version 0:XUPAI POWER CO.,LTD.

Version 1:Shenzhen Jubang Battery Co., Ltd.

| | |
|--------------------------------------|---------|
| Vehicle Type | CP-8 |
| Location of The Propulsion Batteries | |
| Drawing NO. | CP-8-07 |

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Controller

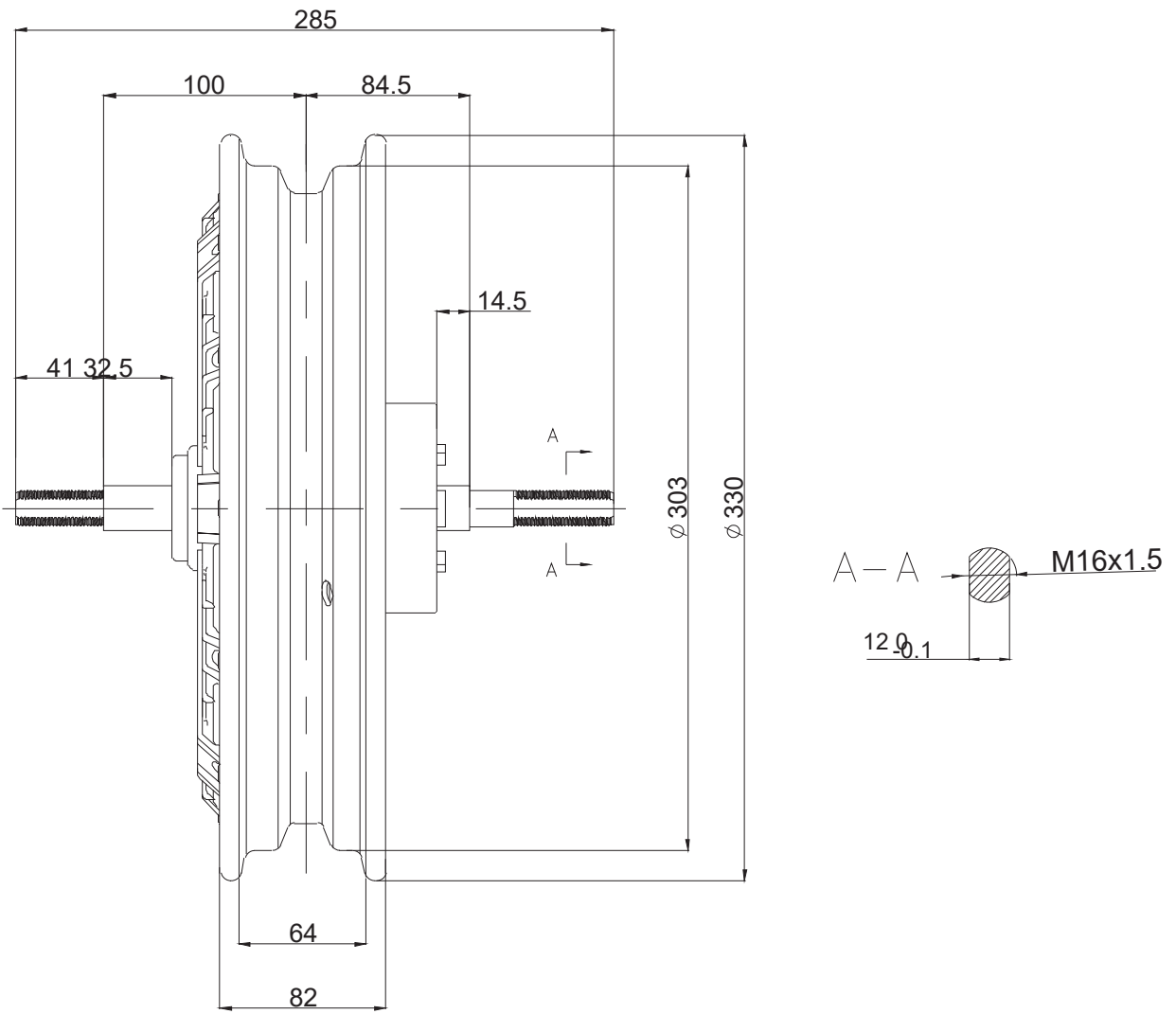
Make: YANHUANG

Type: ZJCP12-72V-YTC

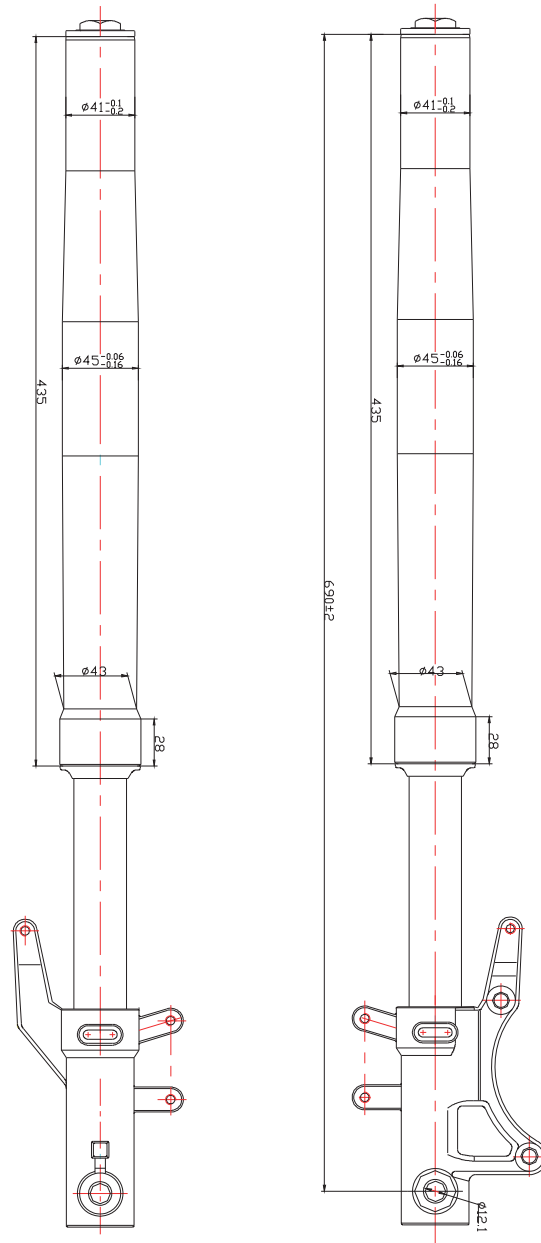
Manufacturer: Yongkang Yanhuang Trading Co., Ltd.

| | |
|---------------------|---------|
| Vehicle Type | CP-8 |
| Controller | |
| Drawing NO. | CP-8-08 |

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| | |
|---------------------|---------|
| Vehicle Type | CP-8 |
| Drive train | |
| Drawing NO. | CP-8-09 |



stroke 40mm

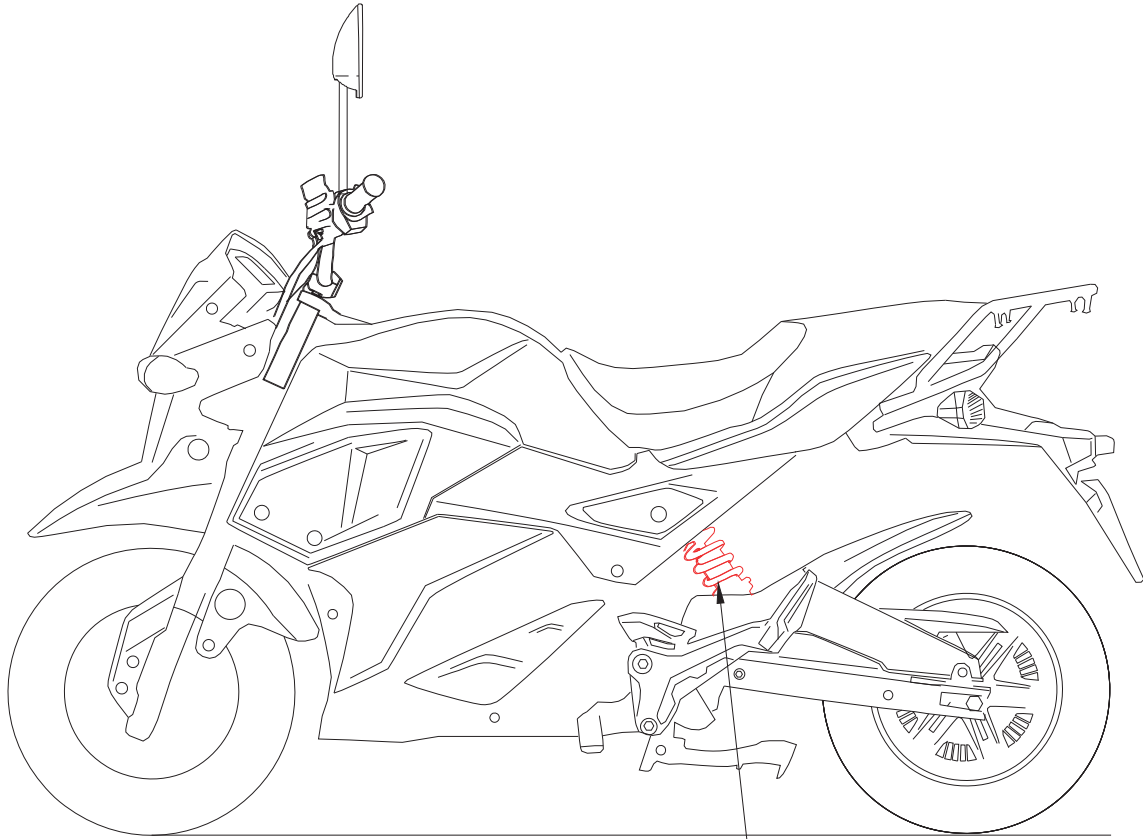
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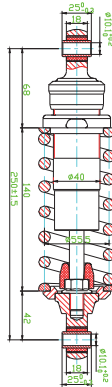
| | |
|---------------------|---------|
| Vehicle Type | CP-8 |
| Front suspension | |
| Drawing NO. | CP-8-10 |

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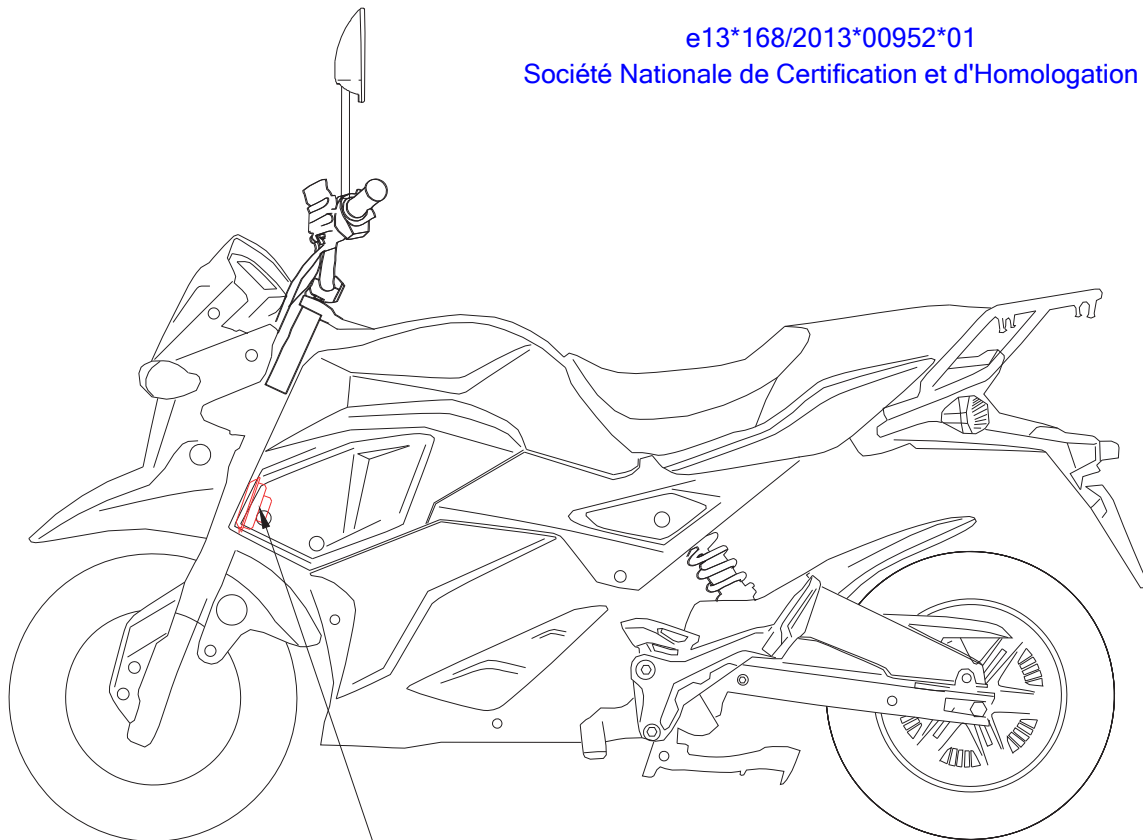


rear suspension



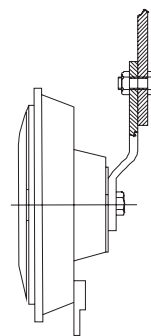
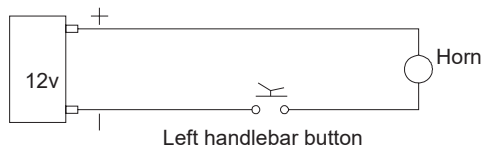
| | |
|---------------------|---------|
| Vehicle Type | CP-8 |
| rear suspension | |
| Drawing NO. | CP-8-11 |

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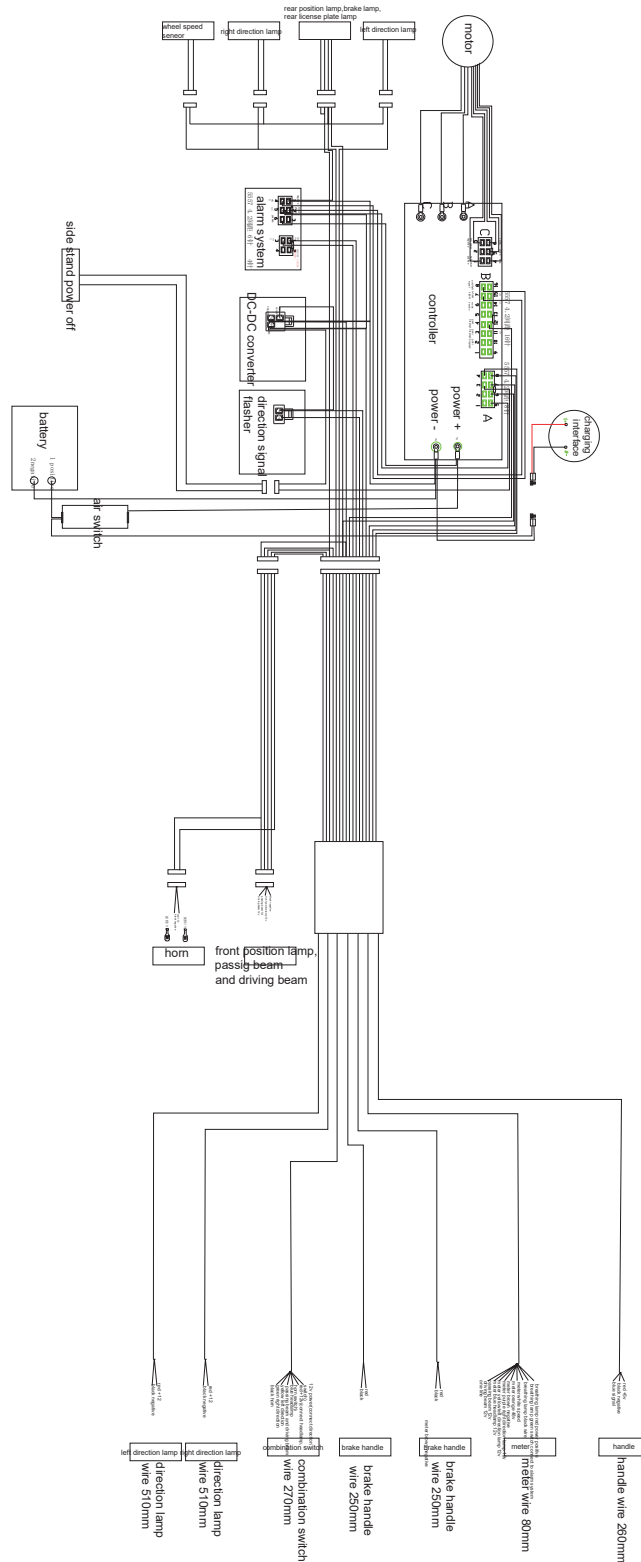


position of horn
L,X240,Y-30,Z590

Horn control electrical circuit:

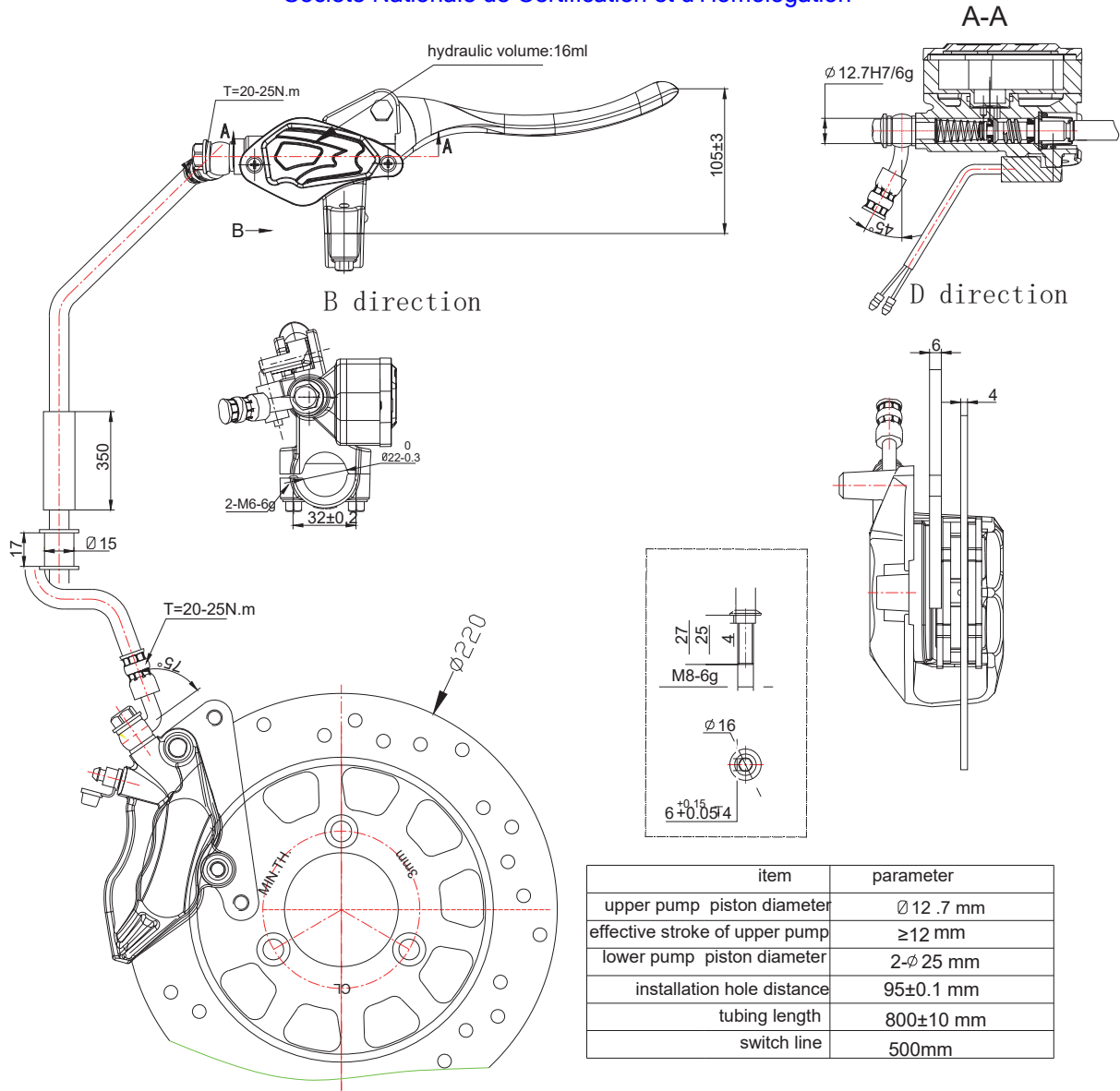


| | |
|---|---------|
| Vehicle Type | CP-8 |
| Location of The Audible Warning Device | |
| Drawing NO. | CP-8-12 |



| | |
|-----------------------------------|---------|
| Vehicle Type | CP-8 |
| Electrical Circuit Diagram | |
| Drawing NO. | CP-8-13 |

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Front brake system

Make:CHILONG

Type:CP8

Manufacturer: Taizhou Chilong Vehicle Parts Co., Ltd.

front brake disc

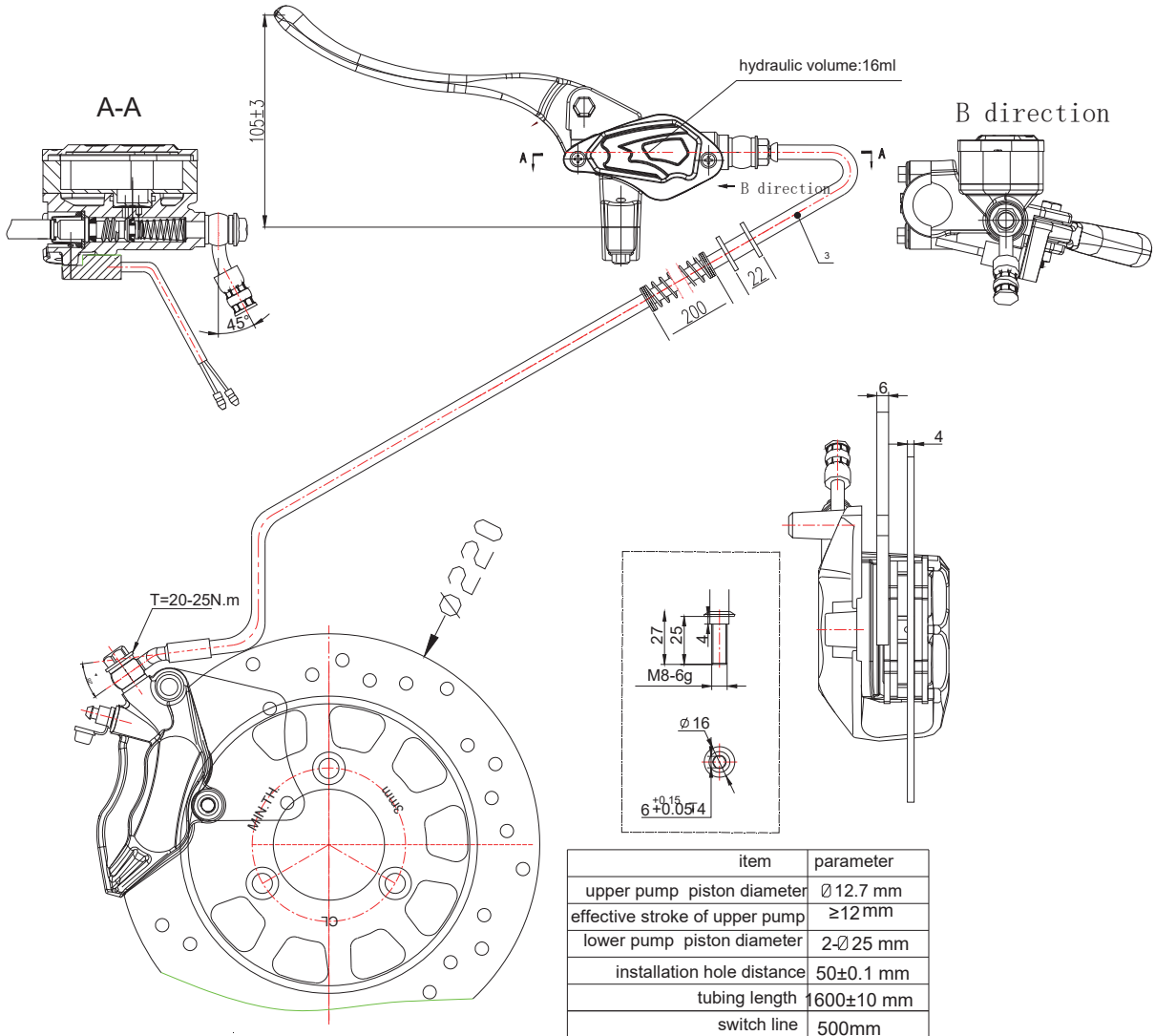
make: CHILONG

type: Ø 220

Manufacturer: Taizhou Chilong Vehicle Parts Co., Ltd.

| | |
|---------------------|-----------|
| Vehicle Type | CP-8 |
| Front Brake System | |
| Drawing NO. | CP-8-14-1 |

| | | |
|------------|-------------------------------|-------------------|
| Type: CP-8 | HK SHANSU TECHNOLOGY LIMITED. | Date: 10,Oct,2020 |
| Appendix 4 | | Ext.: 00 |

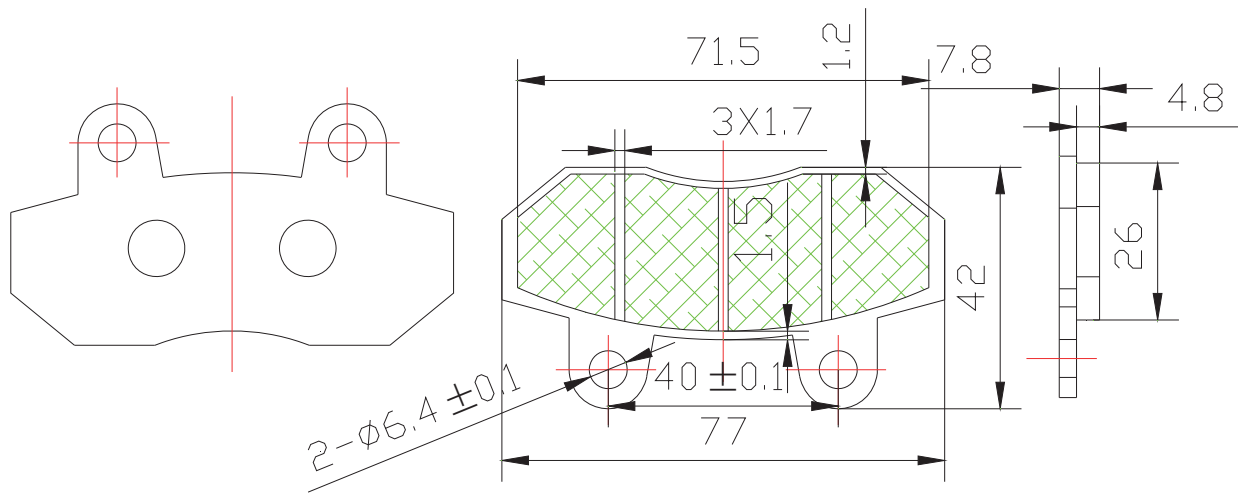


rear brake system
 Make: CHILONG
 Type:CP8
 Manufacturer: Taizhou Chilong Vehicle Parts Co., Ltd.

rear brake disc
 make: CHILONG
 type: ∅ 220
 Manufacturer: Taizhou Chilong Vehicle Parts Co., Ltd.

| | |
|---------------------|-----------|
| Vehicle Type | CP-8 |
| Rear brake system | |
| Drawing NO. | CP-8-14-2 |

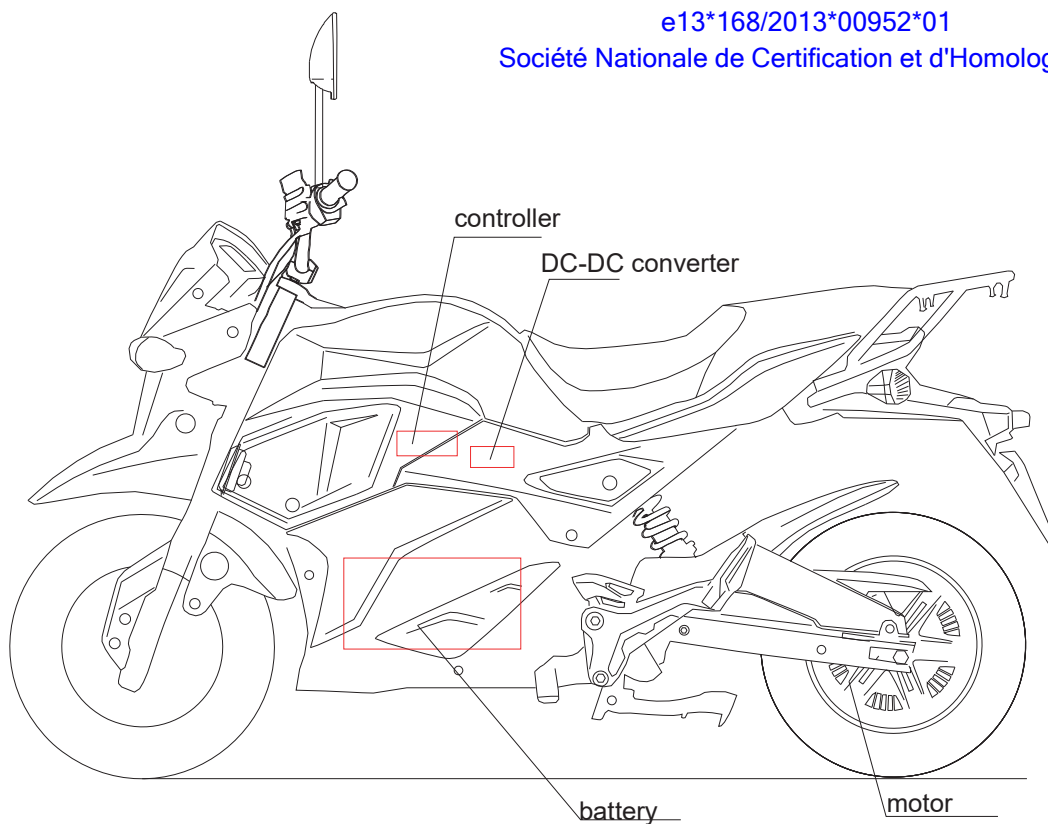
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Front and rear brake pad:
 make: CHILONG
 type: HMZ-7006
 manufacturer :Taizhou Chilong Vehicle Parts Co., Ltd.

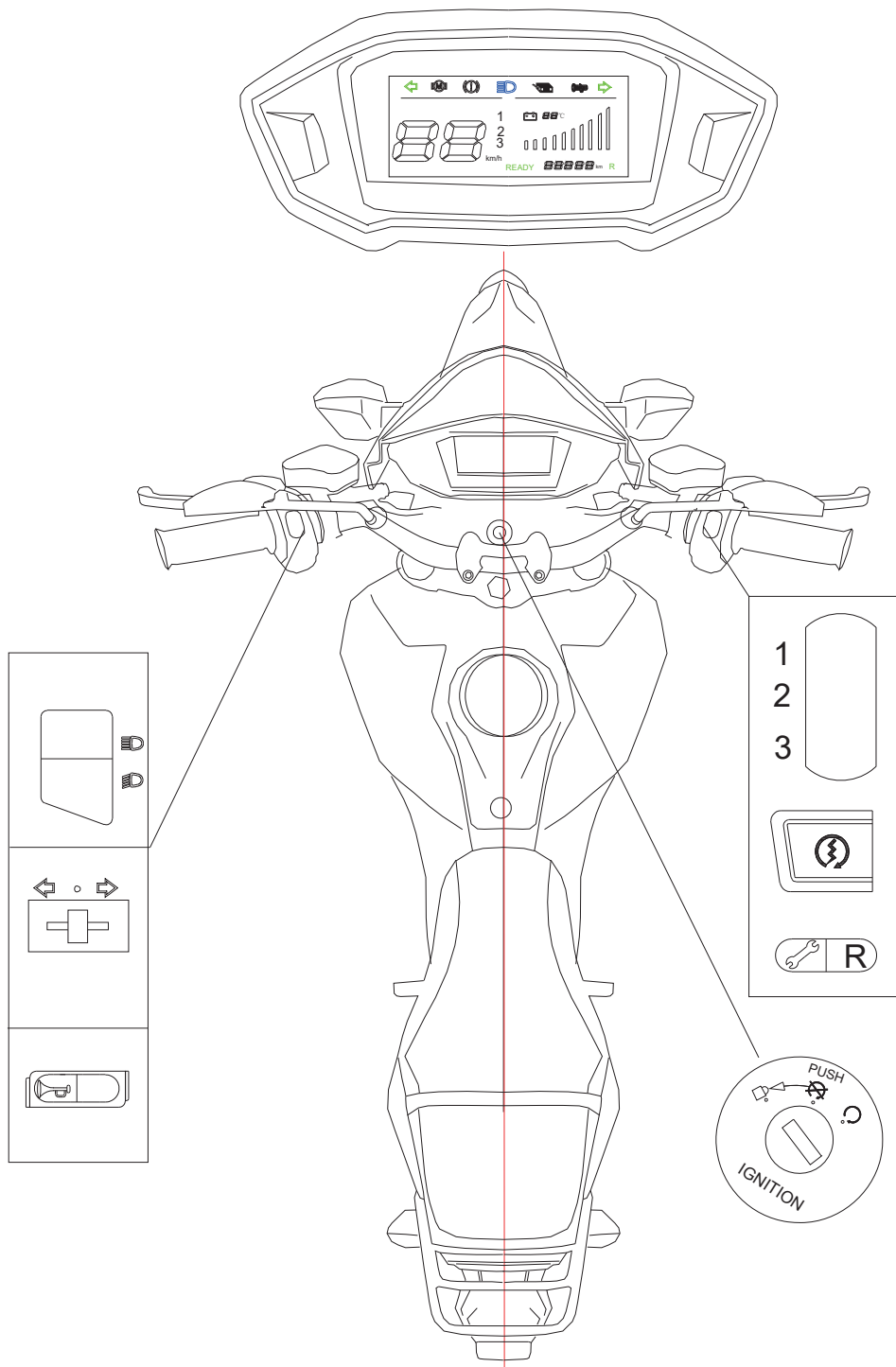
| | |
|--------------------------|-----------|
| Vehicle Type | CP-8 |
| Front and rear Brake pad | |
| Drawing NO. | CP-8-14-3 |

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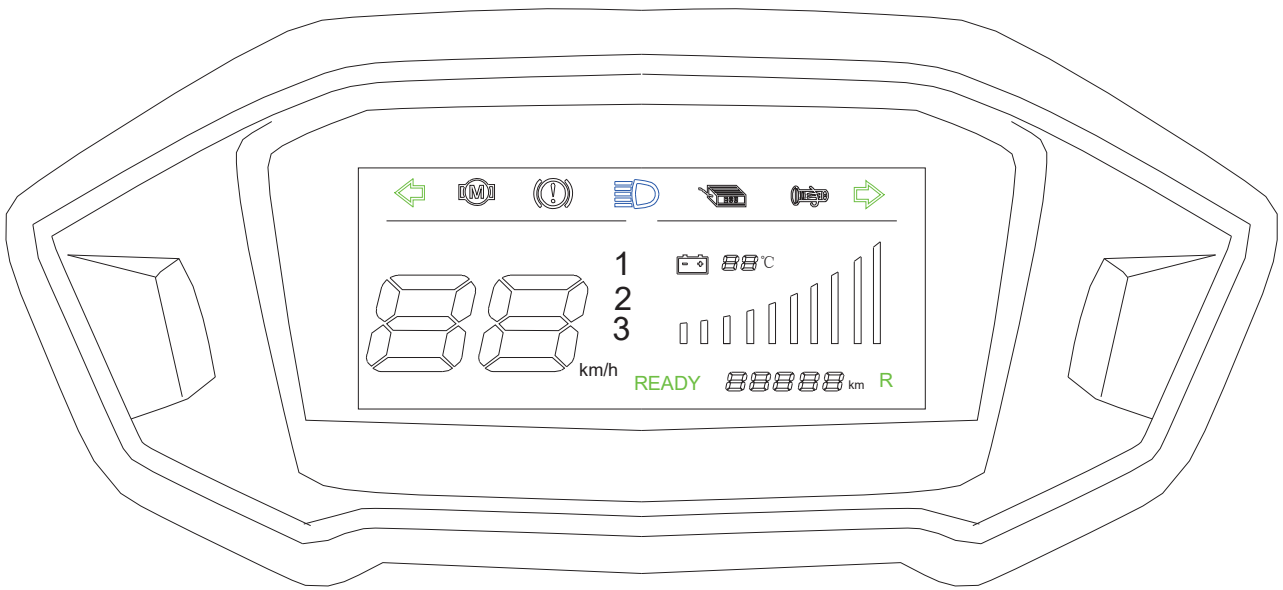
motor: make:YANHUANG
 type: CP830H
controller: make:YANHUANG
 type:ZJCP12-72V-YTC
 make:XUPAI
lead-acid battery: type:72V20Ah
 make:JUBANG
lithium battery: type:72V20Ah
DC-DC converter: make:HAOTONG
 type:CP8
Charger: make:YANHUANG
 type:DZM722001

| | |
|---------------------------------------|---------|
| Vehicle Type | CP-8 |
| Power Circuit Components Installation | |
| Drawing NO. | CP-8-15 |



| | |
|-------------------------------------|---------|
| Vehicle Type | CP-8 |
| Controls, Tell-Tales And Indicators | |
| Drawing NO. | CP-8-16 |

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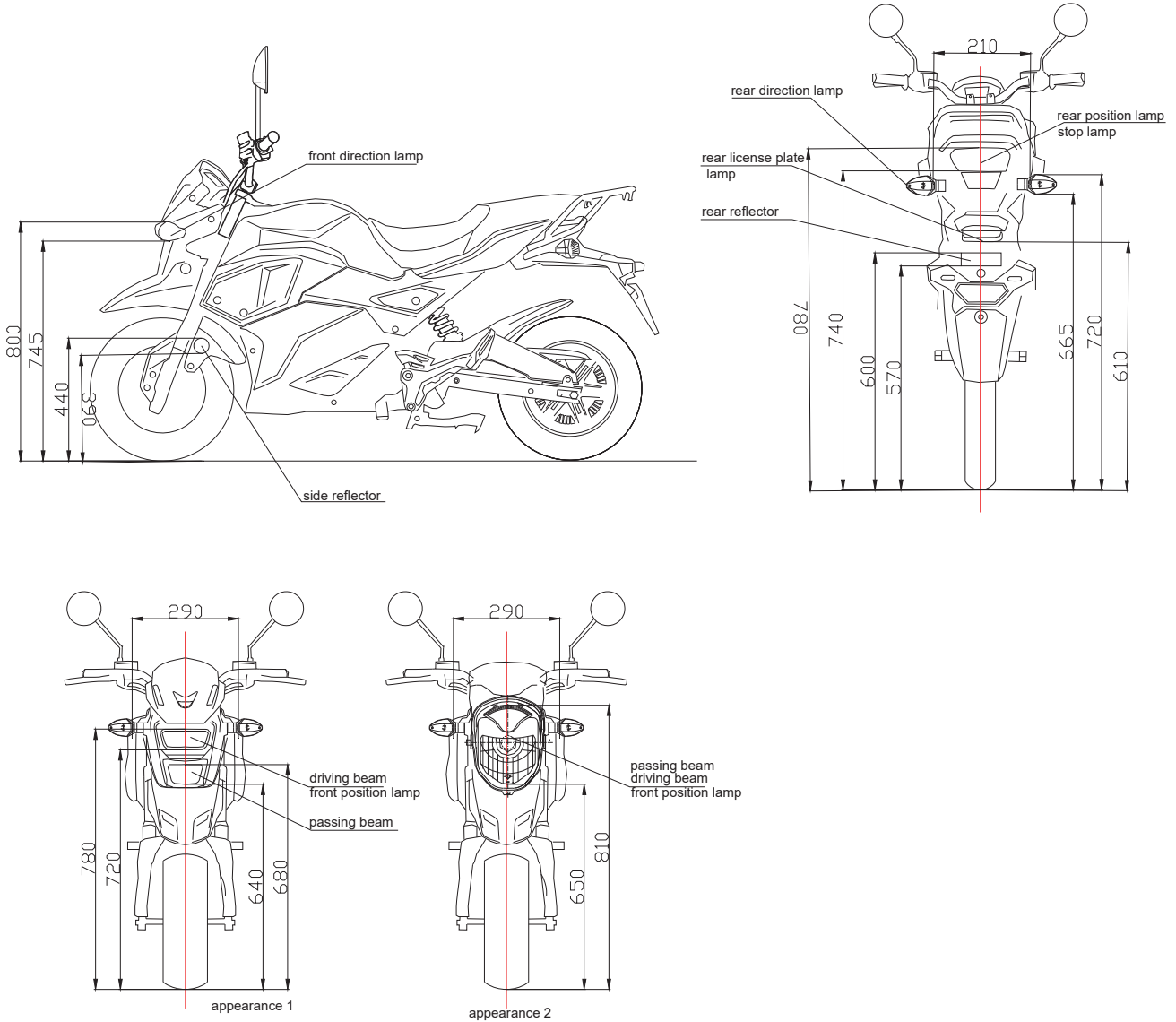


Make: Jingxian
Type: CP8
Manufacturer: Taizhou Luqiao Jingxian Electronics Co., Ltd.

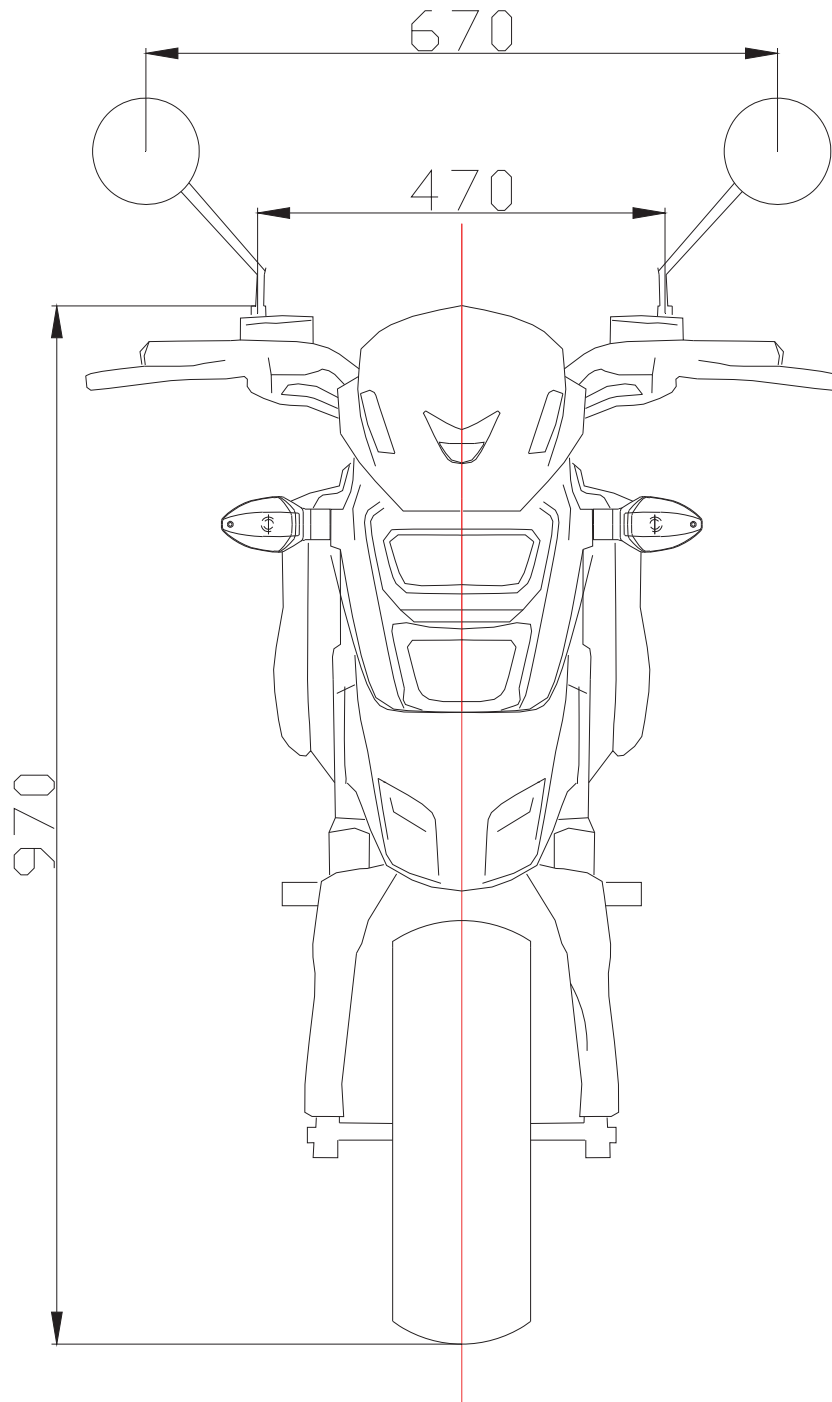
| | |
|--------------------------|---------|
| Vehicle Type | CP-8 |
| Speedometer and odometer | |
| Drawing NO. | CP-8-17 |

e13*168/2013*00952*01

Société Nationale de Certification et d'Homologation



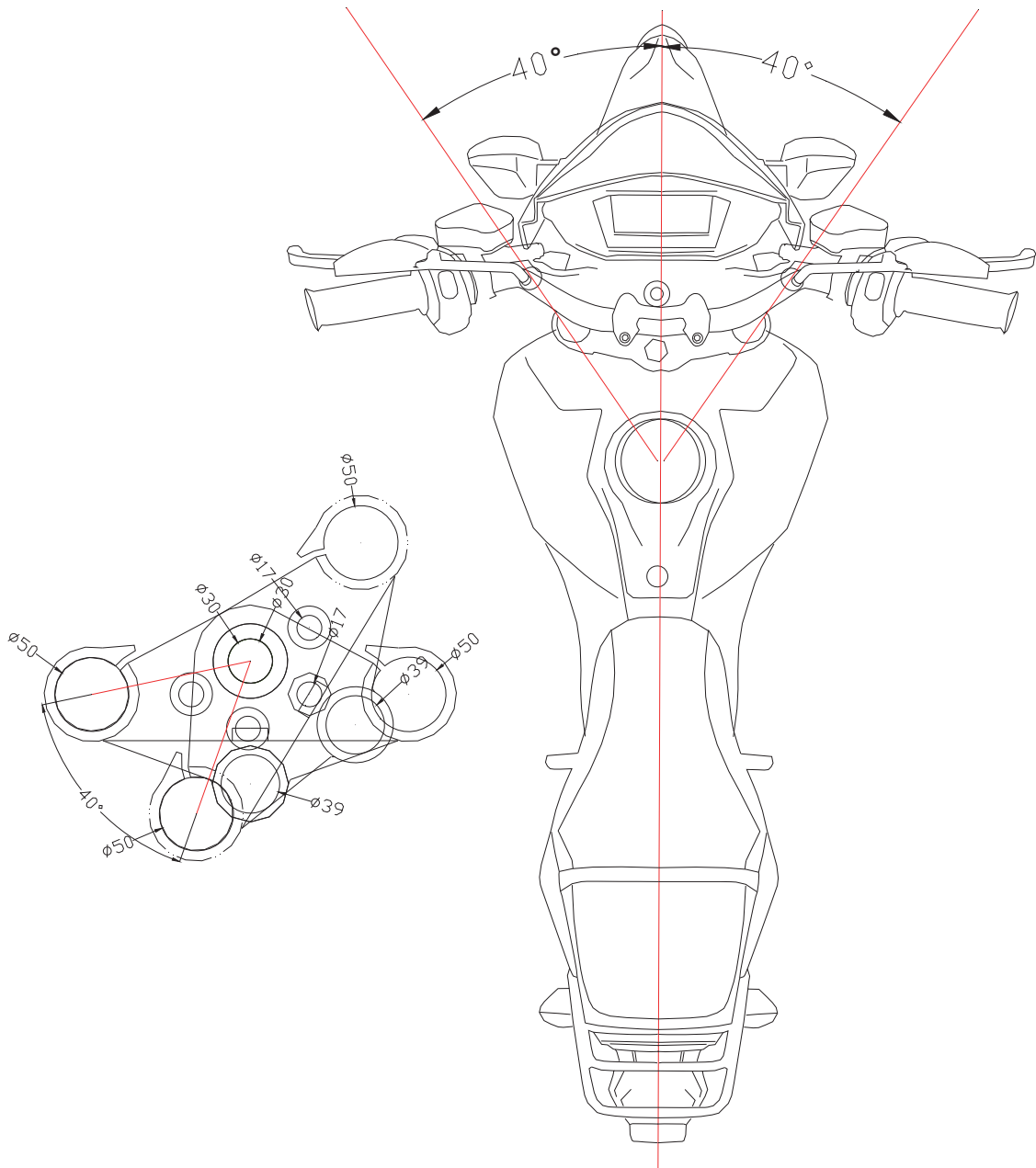
| | |
|---------------------|---------|
| Vehicle Type | CP-8 |
| Location of Lights | |
| Drawing NO. | CP-8-18 |



| | |
|------------------------------|---------|
| Vehicle Type | CP-8 |
| Location of Rear View Mirror | |
| Drawing NO. | CP-8-19 |

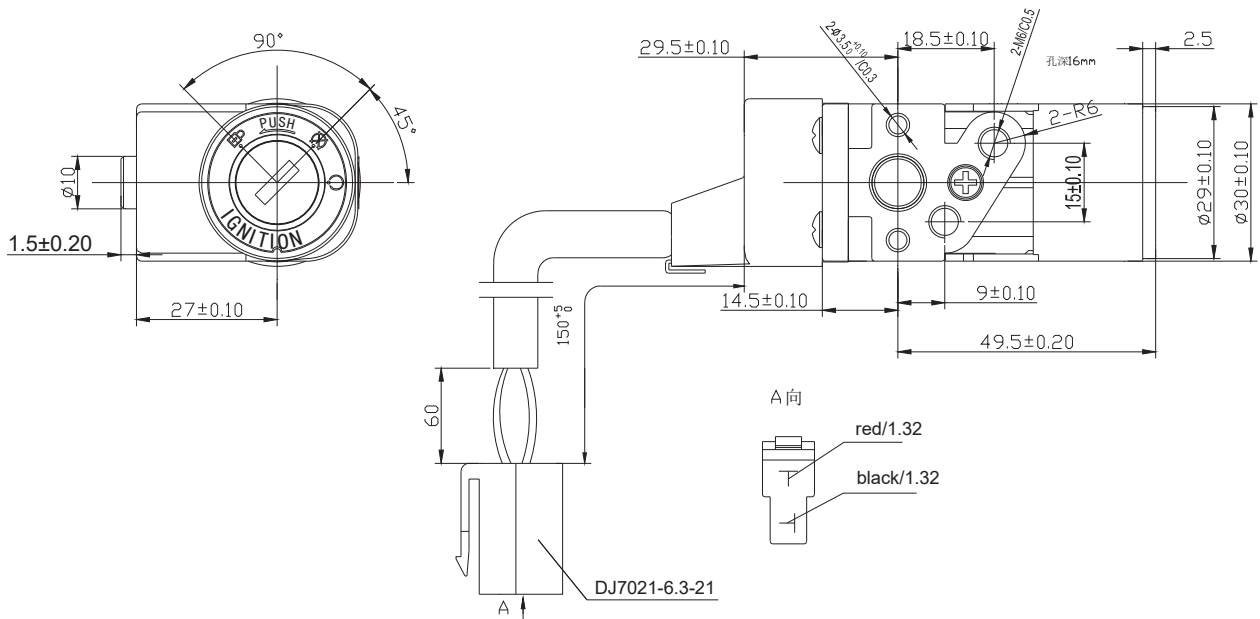
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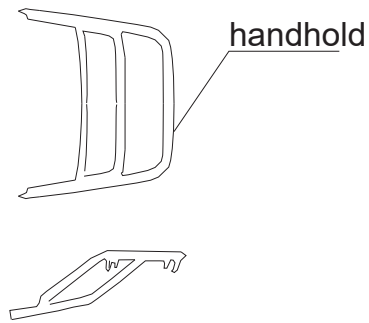
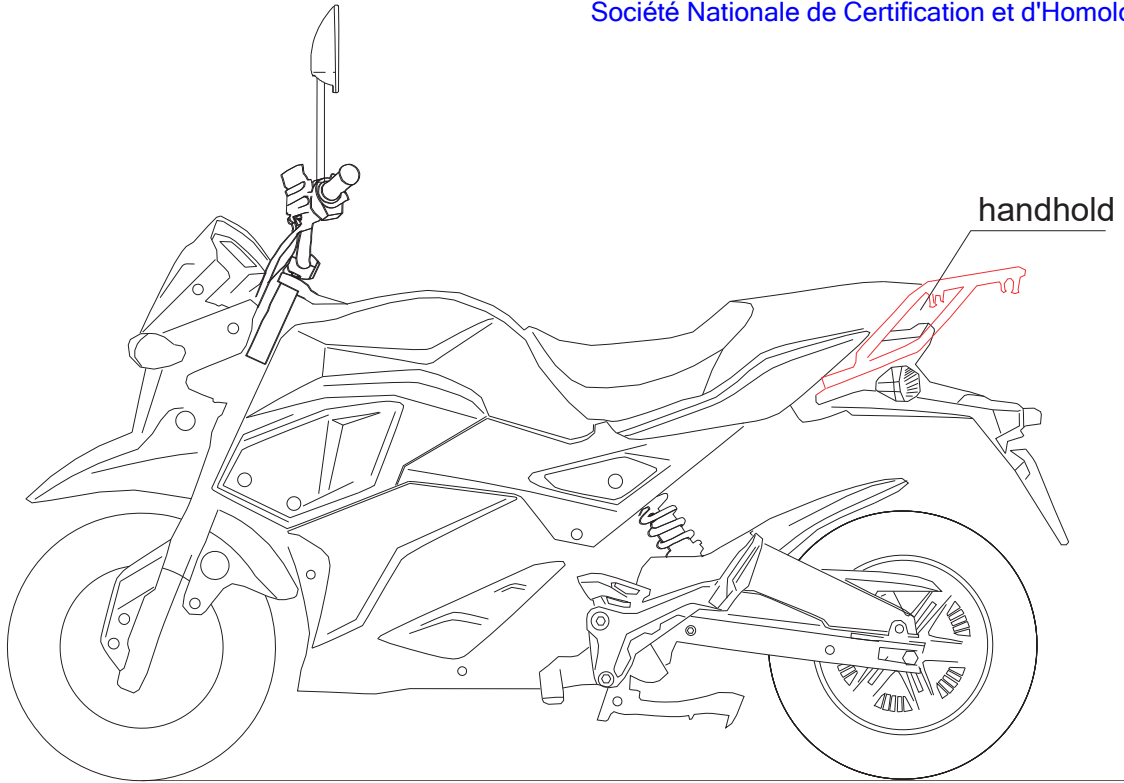
| | |
|--------------------------------------|---------|
| Vehicle Type | CP-8 |
| Transmission and Control of Steering | |
| Drawing NO. | CP-8-20 |

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| | |
|---------------------|---------|
| Vehicle Type | CP-8 |
| Protective Device | |
| Drawing NO. | CP-8-21 |

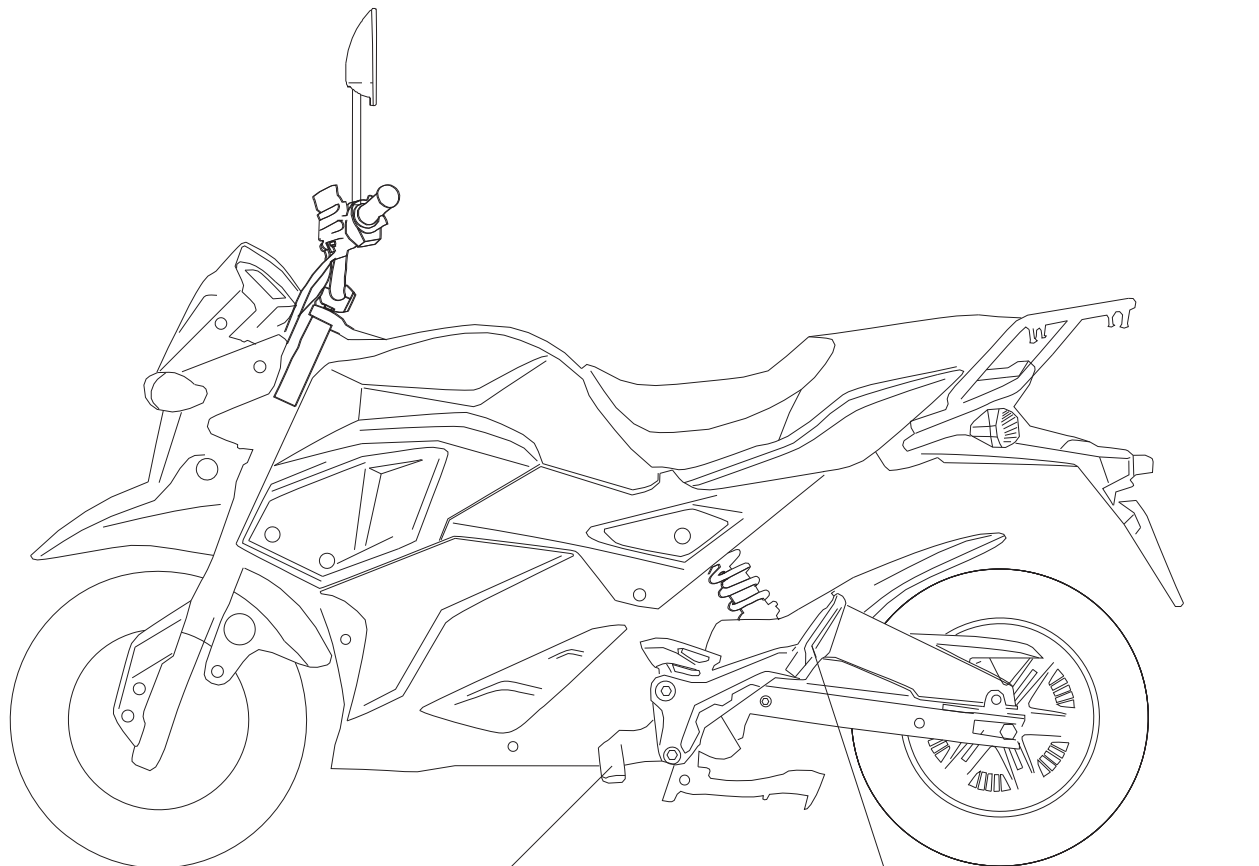
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| | |
|---------------------|---------|
| Vehicle Type | CP-8 |
| Handhold | |
| Drawing NO. | CP-8-22 |

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Driver footrest

passenger footrest

Driver footrest

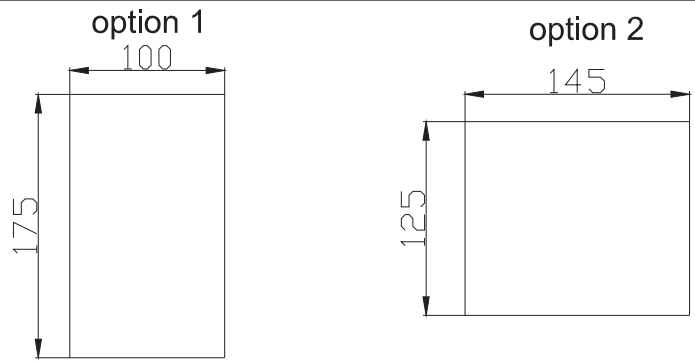
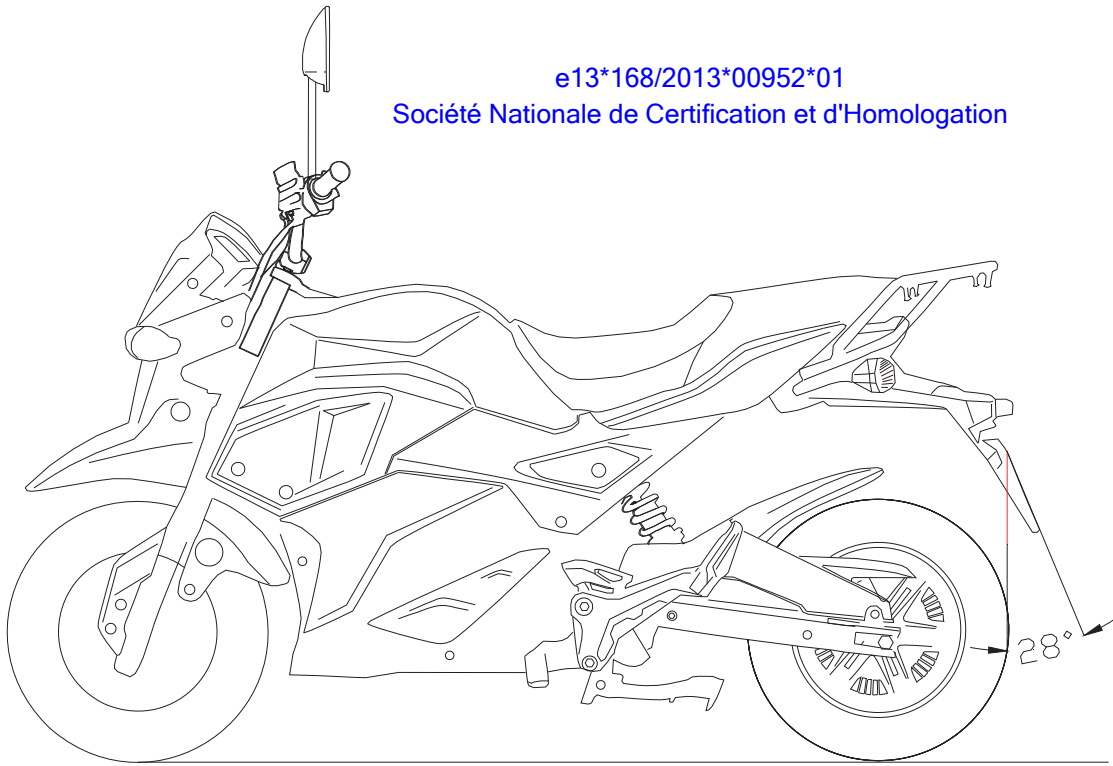


passenger footrest



| | |
|---------------------|---------|
| Vehicle Type | CP-8 |
| Footrests | |
| Drawing NO. | CP-8-23 |

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Société Nationale de Certification et d'Homologation

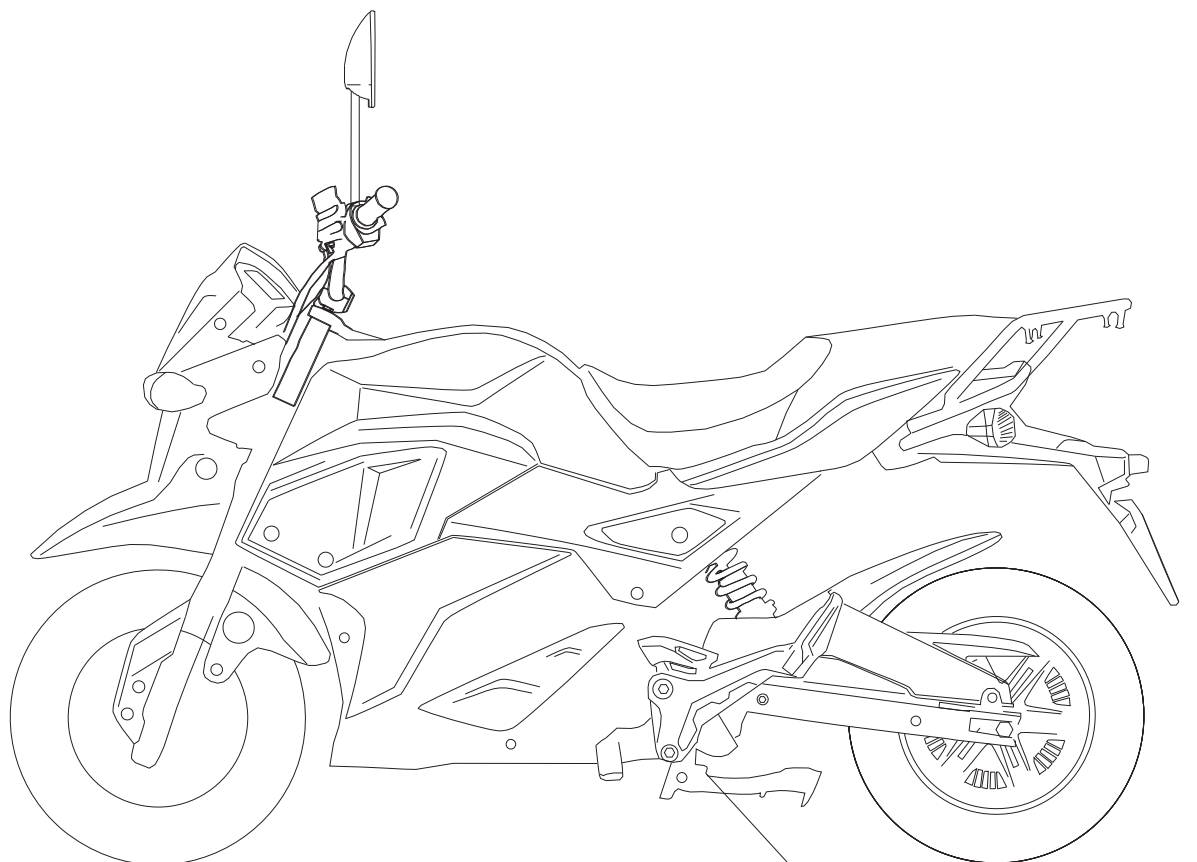


| rear registration plate | low point | high point |
|-------------------------|-----------|------------|
| option 1 | 395 mm | 550 mm |
| option 2 | 440 mm | 550 mm |

| | |
|-------------------------|---------|
| Vehicle Type | CP-8 |
| Rear Registration Plate | |
| Drawing NO. | CP-8-24 |

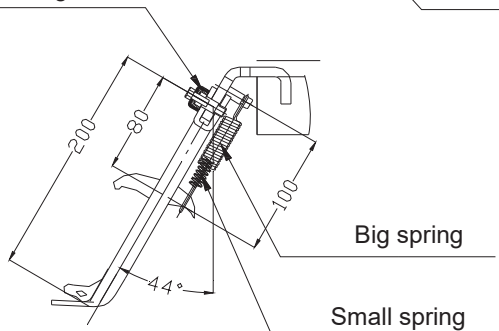
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Société Nationale de Certification et d'Homologation



prevent ignition device

Side stand



Side stand

| | |
|---------------------|---------|
| Vehicle Type | CP-8 |
| Side Stand | |
| Drawing NO. | CP-8-25 |

| | | |
|--------------------------|------------------------------|-------------------------------|
| Type: CP-8 Appendix 5 | HK SHANSU TECHNOLOGY LIMITED | Date: 17.01.2023 Ext. : 01 |
|--------------------------|------------------------------|-------------------------------|

Manufacturer's statement on endurance testing (Annex V to Commission Delegated Regulation (EU) No 3/2014)

The undersigned: Wu Qiang, general manager

e13*168/2013*00952*01
Société Nationale de Certification et d'Homologation

Company name and address of manufacturer:

HK SHANSU TECHNOLOGY LIMITED
FLAT B 4/F KINGSWELL COMM TOWER, 171-173 LOCKHART RD, WANCHAI, HONGKONG

Name and address of the manufacturer's representative (if any):

SEVIMOTOR PIT BIKES SPAIN, S.L.
URB NTRA.SRA.DE LA SALUD, NUM.68 41510 MAIRENA DEL ALCOR-(SEVILLA), SPAIN

Hereby states that the vehicles:

- 0.1. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, **VORTEX By Gingabike, HECH**
- 0.2. Type: CP-8
 - 0.2.1. Variant(s): 0
 - 0.2.2. Version(s): 0, 1
 - 0.2.3. Commercial name(s) (if available): E-beast, YK-27-S, **HECHT STRATIS, SPORTSMAN**
- 0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B

for which type-approval is sought shall withstand normal use as intended for at least 16500 km travelled within five years of first registration, taking into account regular and scheduled maintenance and specific equipment adjustments, as described clearly and unambiguously in the instructions manual delivered with the vehicles.

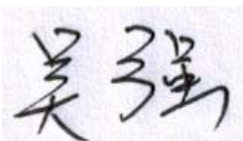
The undersigned furthermore confirms that the endurance of the systems, parts and equipment critical for functional safety is ensured through appropriate testing and the use of good engineering practice.

This declaration has no bearing on any vehicle warranty.

Place: Hongkong, China

Date: 17.01.2023

Signature:



Name and position in the company: Wu Qiang, general Manager

| | | |
|------------|------------------------------|------------------|
| Type: CP-8 | HK SHANSU TECHNOLOGY LIMITED | Date: 17.01.2023 |
| Appendix 6 | | Ext. : 01 |

Manufacturer's statement on structure integrity (Annex XIX to Commission Delegated Regulation (EU) No 3/2014)

The undersigned: Wu Qiang, general manager

Company name and address of manufacturer:

HK SHANSU TECHNOLOGY LIMITED
FLAT B 4/F KINGSWELL COMM TOWER, 171-173 LOCKHART RD, WANCHAI, HONGKONG

Name and address of the manufacturer's representative (if any):

SEVIMOTOR PIT BIKES SPAIN, S.L.
URB NTRA.SRA.DE LA SALUD, NUM.68 41510 MAIRENA DEL ALCOR-(SEVILLA), SPAIN

Hereby states that the vehicles:

- 0.1. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, **VORTEX By Gingabike, HECH**
- 0.2. Type: CP-8
 - 0.2.1. Variant(s): 0
 - 0.2.2. Version(s): 0,1
 - 0.2.3. Commercial name(s) (if available): E-beast, YK-27-S, **HECHT STRATIS, SPORTSMAN**

0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B

shall be constructed in a proper manner and are designed to be sufficiently robust to withstand the intended use over the vehicle's lifetime, taking into account regular and scheduled maintenance and specific equipment adjustments, as described clearly and unambiguously in the instructions manual delivered with the vehicles.

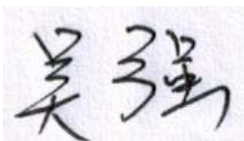
The undersigned furthermore agrees to and guarantees that specific analyses of vehicle structures, components and/or parts using engineering calculations, virtual testing methods and/or structural testing shall be made available in a timely manner to the approval authority and the European Commission upon request in case of a recall due to a serious safety risk.

This declaration applies to all vehicles covered by the type-approval to which this statement is annexed and has no bearing on any vehicle warranty.

Place: Hongkong, China

Date: 17.01.2023

Signature:



Name and position in the company: Wu Qiang, general Manager

Manufacturer's certificate on access to ~~vehicle OBD (stage I)~~ and vehicle repair and maintenance information

Reference number: CP-8-01

The undersigned: Wu Qiang, general manager

Company name and address of manufacturer:

HK SHANSU TECHNOLOGY LIMITED
FLAT B 4/F KINGSWELL COMM TOWER, 171-173 LOCKHART RD, WANCHAI, HONGKONG

Name and address of the manufacturer's representative (if any):

SEVIMOTOR PIT BIKES SPAIN, S.L.
URB NTRA.SRA.DE LA SALUD, NUM.68 41510 MAIRENA DEL ALCOR-(SEVILLA), SPAIN

Hereby states that the vehicles:

it provides access to ~~vehicle OBD~~ and vehicle repair and maintenance information in compliance with

- Chapter XV of Regulation (EU) No 168/2013 [e13*168/2013*00952*01](#)
[Société Nationale de Certification et d'Homologation](#)
with respect to the types of vehicle, engine and pollution-control device listed in Addendum 1 to this certificate.

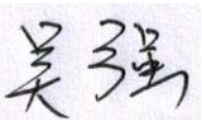
The following derogation is applied: ~~carry-over systems~~.

The principal website addresses, through which the relevant information may be accessed and which are hereby certified to be in compliance with the above provisions, are listed in Addendum 2 to this certificate along with the contact details of the manufacturer's representative listed in Addendum 3 to this certificate, whose signature is below.

Where applicable: The manufacturer hereby also certifies that it has complied with the obligation in Article 57(8) of Regulation (EU) No 168/2013 to provide the relevant information for previous approvals of these vehicle types no later than six months after the date of type-approval.

Place: Hongkong, China

Date: 17.01.2023

Signature: 

Name and position in the company: Wu Qiang, general Manager

Addenda:

- 1: List of the types of vehicle, engine and pollution-control device
- 2: Web sites addresses
- 3: Contact details

| | | |
|--------------------------|------------------------------|-------------------------------|
| Type: CP-8 Appendix 7 | HK SHANSU TECHNOLOGY LIMITED | Date: 17.01.2023 Ext. : 01 |
|--------------------------|------------------------------|-------------------------------|

e13*168/2013*00952*01

Addendum 1 Société Nationale de Certification et d'Homologation
to

Manufacturer's certificate with reference number CP-8-00 on access to ~~vehicle OBD (stage I) and~~
vehicle repair and maintenance information

List of the types of vehicle:

- 0.2. Type: CP-8
- 0.2.1. Variant(s): 0
- 0.2.2. Version(s): 0, 1
- 0.2.3. Commercial name(s) (if available): E-beast, YK-27-S, **HECHT STRATIS, SPORTSMAN**
- 0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B
- 1. Type-approval number including extension number (if available): N.A.
- 1.1. Type-approval issued on (date, if available): N.A.

List of the types of engines:

- 3. ~~Combustion engine~~/ electric motor/~~hybrid~~-application code: CP830H ??????????
- 3.1. Type-approval number (if available): N.A.
- 3.2. Type-approval issued on (date, if available): N.A.

List of the types of pollution-control devices:

- 0.7. Make(s) (trade name(s) of manufacturer): N.A.
- 0.8. Type: N.A.
- 0.8.1. Commercial name(s) (if available): N.A.
- 0.8.2. Type-approval number including extension number (if available): N.A.
- 0.8.3. Type-approval issued on (date, if available): N.A.

Addendum 2
to

Manufacturer's certificate with reference number CP-8-00 on access to ~~vehicle OBD (stage I) and~~
vehicle repair and maintenance information

Web site addresses referred to in this certificate:
<https://zjshansu.en.alibaba.com/>

Type: CP-8

HK SHANSU TECHNOLOGY LIMITED

Date: 17.01.2023

Appendix 7

Ext. : 01

[e13*168/2013*00952*01](#)

[Société Nationale de Certification et d'Homologation](#)

Addendum 3

to

Manufacturer's certificate with reference number CP-8-00 on access to vehicle OBD (stage I) and vehicle repair and maintenance information

Contact details of the manufacturer's representative referred to in this certificate:

Name and position in the company: GAVIRA CARRENO MANUEL JESUS /leagal person

TEL: +34657955461

E-mail: info@sevimotor.com

Manufacturer's declaration on powertrain tampering prevention measures (anti-tampering)

1. Vehicle manufacturer's declaration on powertrain tampering prevention measures (anti-tampering):
- not to market interchangeable components which could enable propulsion unit performance to exceed levels applicable to the relevant (sub) category;
 - manufacturer-facilitated modifications shall not increase the propulsion unit performance of the vehicle;
 - modifications and interchangeability of parts and components

Manufacturer's declaration not to market interchangeable components which could enable propulsion unit performance to exceed levels applicable to the relevant (sub) category

- 0.4. Company name and address of manufacturer: e13*168/2013*00952*01
Société Nationale de Certification et d'Homologation
- HK SHANSU TECHNOLOGY LIMITED
FLAT B 4/F KINGSWELL COMM TOWER, 171-173 LOCKHART RD, WANCHAI,
HONGKONG

- 0.4.2 Name and address of the manufacturer's representative (if any):
- SEVIMOTOR PIT BIKES SPAIN, S.L.
URB NTRA.SRA.DE LA SALUD, NUM.68 41510 MAIRENA DEL ALCOR-(SEVILLA),
SPAIN

Hereby declares that:
For the L1e/L2e, (L3e/L4e) A1/(L3e/L4e) A2/L6e/L7e category vehicle:

- 0.1. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, **VORTEX By Gingabike, HECH**
- 0.2. Type: CP-8
- 0.2.1.Variant(s): 0
- 0.2.2.Version(s): 0, 1
- 0.2.3. Commercial name(s) (if available): E-beast, YK-27-S, **HECHT STRATIS, SPORTSMAN**

0.3.Category, subcategory and sub-subcategory of vehicle: L1e-B

Will not market interchangeable components which could enable propulsion unit performance to exceed levels applicable to the relevant (sub) category;
and that

The manufacturer-facilitated modifications of the following characteristics:

- ~~(a) spark delivery of the ignition system if applicable;~~
- ~~(b) fuel feed and delivery system;~~
- ~~(c) air intake system including air filter(s) (modification or removal);~~
- (d) propulsion battery configuration or electric power to the electric motor(s) if applicable;
- (e) drive-train;
- (f) and the control unit(s) that control(s) the propulsion unit performance of the powertrain.

shall comply with the requirements set out in point 2.6. of Annex II to Commission Delegated Regulation (EU) No 44/2014

~~For L3e-A2/L4e-A2/L7e category vehicles the manufacturer~~

~~declares that:~~

e13*168/2013*00952*01

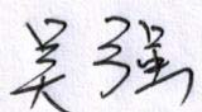
~~The modifications and interchangeability of:~~ Société Nationale de Certification et d'Homologation

- ~~(a) spark delivery of the ignition system, if applicable;~~
- ~~(b) fuel feed and delivery system;~~
- ~~(c) air intake system including air filter(s) (modification or removal);~~
- ~~(d) the drive train;~~
- ~~(e) the control unit(s) for the propulsion unit performance of the powertrain;~~
- ~~(f) removal of any component (mechanical, electrical, structural, etc.) which limits full engine load, leading to any change in the propulsion unit performance as approved in accordance with Annex II (A) to Regulation (EU) No 168/2013~~

~~shall comply with the requirements set out in point 5.2 of Annex II to Commission Delegated Regulation (EU) No 44/2014~~

Place: Hongkong, China

Date: 17.01.2023

Signature: 

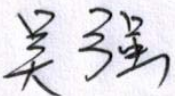
Name and position in the company: Wu Qiang, general Manager

Statement Concerning Authority of Signature on COC Paper

We, HK SHANSU TECHNOLOGY LIMITED declare that the undersigned persons will be the authorized person to sign the COC paper of the vehicle.

Type: CP-8

Specification of signature of COC:

| Name | Position | Signature |
|----------|-----------------|---|
| Wu Qiang | general manager |  |

HK SHANSU TECHNOLOGY LIMITED
Date: 17.01.2023

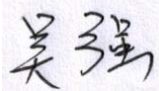
COMPLETE VEHICLE
 EU CERTIFICATE OF CONFORMITY

The undersigned, Wu Qiang, general Manager
 Hereby certifies that the following complete vehicle:

- 0.1. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, VORTEX By Gingabike, HECHT
- 0.2. Type: CP-8
- 0.2.1. Variant: 0
- 0.2.2. Version: 0
- 0.2.3. Commercial name (if available): E-beast, YK-27-S, HECHT STRATIS, SPORTSMAN
- 0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B
- 0.4. Company name and address of manufacturer:
 HK SHANSU TECHNOLOGY LIMITED
 FLAT B 4/F KINGSWELL COMM TOWER, 171-173 LOCKHART RD, WANCHAI, HONGKONG
- 0.4.2. Name and address of manufacturer's authorized representative (if any):
 SEVIMOTOR PIT BIKES SPAIN, S.L.
 URB NTRA.SRA.DE LA SALUD, NUM.68 41510 MAIRENA DEL ALCOR-(SEVILLA), SPAIN
- 0.5.1. Location of the manufacturer's statutory plate(s): R, x210, y30, z720
- 0.5.2. Method of attachment of the manufacturer's statutory plate(s): Riveted
- 0.6. Location of the vehicle identification number: L, x210, y-30, z720
- 1. Vehicle identification number: R36CP800?????????
 conforms in all respects to the type described in EU type-approval (e13*168/2013*00952*00) type-approval number including extension number) issued on (DD, MM, YYYY date of issue) and can be permanently registered in Member States having right/left-hand traffic and using metric/imperial units for the speedometer.

Hongkong, China

(place)



(signature)

DD, MM, YYYY

(date)

General construction characteristics

- 1.3. Number of axles: 2 and wheels: 2
- 1.3.1. Axles with twinned wheels: N.A.
- 1.3.2. Powered axles: R
- 6.2.4. Advanced braking system: ~~ABS / CBS / Both ABS and CBS~~ / None

Main dimensions

- 2.2.1. Length: 1790 mm
- 2.2.2. Width: 810 mm
- 2.2.3. Height: 965 mm
- 2.2.4. Wheelbase: 1270 mm
- 2.2.4.1. Wheelbase sidecar: N.A.
- 2.2.5. Track width
- 2.2.5.1. Track width front: N.A.
- 2.2.5.2. Track width rear: N.A.
- 2.2.5.3. Track width sidecar: N.A.
- 2.2.10.6 Ground clearance between the axles: N.A.
- 2.2.15. Wheelbase to ground clearance ratio: N.A.
- 2.2.17. Seat height: N.A.

Masses

- 2.1.1. Mass in running order: 68 kg
- 2.1.2. Actual mass: 184 kg
- 2.1.3. Technically permissible maximum laden mass: 259 kg
- 2.1.3.1. Technically permissible maximum mass on front axle: 98 kg
- 2.1.3.2. Technically permissible maximum mass on rear axle: 161 kg
- 2.1.3.3. Technically permissible maximum mass on sidecar axle: N.A.
- 2.1.7. Technically permissible maximum towable mass:
- Braked: N.A. Unbraked: N.A.
- 2.1.7.1. Technically permissible maximum laden mass of the combination: N.A.
- 2.1.7.2. Technically permissible maximum mass at the coupling point: N.A.

Powertrain

- 3.1.1.1. Manufacturer: N.A.
- 3.1.1.2. Engine code (as marked on the engine or other means of identification): N.A.
- 3.2.1.2. Working principle of the combustion engine: ~~internal combustion engine (ICE)/positive ignition/compression ignition/external combustion engine (ECE)/turbine/compressed air~~ - N.A.
- 3.2.1.4.1. Number of cylinders: N.A.
- 3.2.1.4.2. Arrangement of cylinders: ~~H/V/O/S~~ N.A.
- 3.2.1.5. Engine capacity: N.A.
- 1.9. Maximum net power: N.A.
- 1.10. Ratio maximum net power/mass of the vehicle in running order: N.A.
- 3.2.3.1. Fuel type: N.A.
- 3.2.3.2. Vehicle fuel combination: ~~mono fuel/bi fuel/flex fuel~~ N.A.
- 3.2.3.2.1. Maximum amount of bio-fuel acceptable in fuel: N.A.
- 3.1.2.1. Manufacturer: Yongkang Yanhuang Trading Co., Ltd..
- 3.1.2.2. Electric motor code (as marked on the engine or other means of identification): CP830H?????????
- 3.3.3.4. ~~15/30~~ minutes power: 2.0 kW at 400 min⁻¹
- 3.1.3.1. Manufacturer: N.A.

3.1.3.2. Application code (as marked on the engine or other means of identification): N.A.
 3.3.1. Electric vehicle configuration: pure electric/hybrid electric/manpower electric
 3.3.5.2. Category of hybrid electric vehicle: off-vehicle charging/hot-off-vehicle charging N.A.
 3.9.2. Maximum assistance factor: N.A.

Maximum speed

1.8. Maximum speed of vehicle: 45 km/h
 3.9.3. Maximum vehicle speed for which the electric motor gives assistance: N.A.

Drive-train and control

3.5.3.9. Transmission (type): W
 3.5.4. Gear ratios: N.A.
 3.5.4.1. Final drive ratio: N.A.
 3.5.4.2. Overall gear ratio in highest gear: N.A.

Installation of tyres

6.18.1.1. Tyre size designation:
 Axle 1: 130/70-12 62J MT2.50X12 250 kPa
 Axle 2: 130/70-12 62J MT2.50X12 250 kPa
 Sidecar wheel: N.A.

Bodywork

6.20.2.1. Door configuration and number of doors: N.A.
 6.16.1. Number of seating positions: 2
 6.16.1.1. Location and arrangement: N.A.

Coupling devices

7.2.8. Type-approval number of coupling-device: N.A.

Environmental performance

4.0.1. Environmental step: Euro (3/4/5/5+)
 4.0.6. Sound level measured according to: N.A.
 4.0.6.1. Stationary: N.A. at engine speed: N.A.
 4.0.6.2. Drive-by: N.A.
 4.0.6.3. Limit value for L_{urban}: N.A.

3.2.15. Exhaust emissions measured according to Regulation (EU) No 134/2014 including all amendments up to (EU) 2018/295
 3.2.15.1. Type I test: tailpipe emissions after cold start, including the deterioration factor, if applicable:
 CO : N.A.
 THC : N.A.
 NMHC : N.A.
 NOx : N.A.
 THC+NOx : N.A.
 PM : N.A.
 3.2.15.2. Type II test: tailpipe emissions at (increased) idle and free acceleration:
 HC: N.A.
 CO: N.A.
 3.2.15.3. Smoke corrected absorption coefficient: N.A.

Energy efficiency

4.0.2. Fuel consumption: N.A.
 4.0.3. CO₂ emissions: N.A.
 4.0.4. Energy consumption: 40 Wh/km
 4.0.5. Electric range: 44 km

Conversion of the performance of the vehicle:

8.1. Vehicle appropriate for converting its performance level between subcategories (L3e/L4e)-A2 and (L3e/L4e)-A3 and vice versa: ~~yes~~ N.A.

Additional information:

9.1. Remarks: N.A.
 9.2. Exemptions: N.A.

COMPLETE VEHICLE EU CERTIFICATE OF CONFORMITY

The undersigned, Wu Qiang, general Manager
Hereby certifies that the following complete vehicle:

0.1. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, VORTEX By Gingabike, HECHT

0.2. Type: CP-8

0.2.1. Variant: 0

0.2.2. Version: 1

0.2.3. Commercial name (if available): E-beast, YK-27-S, HECHT STRATIS, SPORTSMAN

0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B

0.4. Company name and address of manufacturer:

HK SHANSU TECHNOLOGY LIMITED
FLAT B 4/F KINGSWELL COMM TOWER, 171-173 LOCKHART RD, WANCHAI, HONGKONG

0.4.2. Name and address of manufacturer's authorized representative (if any):

SEVIMOTOR PIT BIKES SPAIN, S.L.
URB NTRA.SRA.DE LA SALUD, NUM.68 41510 MAIRENA DEL ALCOR-(SEVILLA), SPAIN

0.5.1. Location of the manufacturer's statutory plate(s): R, x210, y30, z720

0.5.2. Method of attachment of the manufacturer's statutory plate(s): Riveted

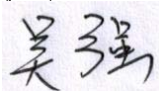
0.6. Location of the vehicle identification number: L, x210, y-30, z720

1. Vehicle identification number: R36CP800????????

conforms in all respects to the type described in EU type-approval (e13*168/2013*00952*00) type-approval number including extension number) issued on (DD, MM, YYYY date of issue) and can be permanently registered in Member States having right/left-hand traffic and using metric/imperial units for the speedometer.

Hongkong, China

(place)



(signature)

DD, MM, YYYY

(date)

General construction characteristics

1.3. Number of axles: 2 and wheels: 2
1.3.1. Axles with twinned wheels: N.A.
1.3.2. Powered axles: R
6.2.4. Advanced braking system: ~~ABS / CBS / Both ABS and CBS~~ / None

Main dimensions

2.2.1. Length: 1790 mm
2.2.2. Width: 810 mm
2.2.3. Height: 965 mm
2.2.4. Wheelbase: 1270 mm
2.2.4.1. Wheelbase sidecar: N.A.
2.2.5. Track width
2.2.5.1. Track width front: N.A.
2.2.5.2. Track width rear: N.A.
2.2.5.3. Track width sidecar: N.A.
2.2.10.6 Ground clearance between the axles: N.A.
2.2.15. Wheelbase to ground clearance ratio: N.A.
2.2.17. Seat height: N.A.

Masses

2.1.1. Mass in running order: 68 kg
2.1.2. Actual mass: 153 kg
2.1.3. Technically permissible maximum laden mass: 259 kg
2.1.3.1. Technically permissible maximum mass on front axle: 98 kg
2.1.3.2. Technically permissible maximum mass on rear axle: 161 kg
2.1.3.3. Technically permissible maximum mass on sidecar axle: N.A.
2.1.7. Technically permissible maximum towable mass:
Braked: N.A. Unbraked: N.A.
2.1.7.1. Technically permissible maximum laden mass of the combination: N.A.
2.1.7.2. Technically permissible maximum mass at the coupling point: N.A.

Powertrain

3.1.1.1. Manufacturer: N.A.
3.1.1.2. Engine code (as marked on the engine or other means of identification): N.A.
3.2.1.2. Working principle of the combustion engine: ~~internal combustion engine (ICE)/positive ignition/compression ignition/external combustion engine (ECE)/turbine/compressed air~~ - N.A.
3.2.1.4.1. Number of cylinders: N.A.
3.2.1.4.2. Arrangement of cylinders: H/V/O/S-N.A.
3.2.1.5. Engine capacity: N.A.
1.9. Maximum net power: N.A.
1.10. Ratio maximum net power/mass of the vehicle in running order: N.A.
3.2.3.1. Fuel type: N.A.
3.2.3.2. Vehicle fuel combination: ~~mono fuel/bi fuel/flex fuel~~-N.A.
3.2.3.2.1. Maximum amount of bio-fuel acceptable in fuel: N.A.
3.1.2.1. Manufacturer: Yongkang Yanhuang Trading Co., Ltd..
3.1.2.2. Electric motor code (as marked on the engine or other means of identification): CP830H?????????
3.3.3.4. ~~15/30~~ minutes power: 2.0 kW at 400 min⁻¹
3.1.3.1. Manufacturer: N.A.

3.1.3.2. Application code (as marked on the engine or other means of identification): N.A.
 3.3.1. Electric vehicle configuration: pure electric/hybrid electric/manpower electric
 3.3.5.2. Category of hybrid electric vehicle: ~~off-vehicle charging/hot-off-vehicle charging~~ N.A.
 3.9.2. Maximum assistance factor: N.A.

Maximum speed

1.8. Maximum speed of vehicle: 45 km/h
 3.9.3. Maximum vehicle speed for which the electric motor gives assistance: N.A.

Drive-train and control

3.5.3.9. Transmission (type): W
 3.5.4. Gear ratios: N.A.
 3.5.4.1. Final drive ratio: N.A.
 3.5.4.2. Overall gear ratio in highest gear: N.A.

Installation of tyres

6.18.1.1. Tyre size designation:
 Axle 1: 130/70-12 62J MT2.50X12 250 kPa
 Axle 2: 130/70-12 62J MT2.50X12 250 kPa
 Sidecar wheel: N.A.

Bodywork

6.20.2.1. Door configuration and number of doors: N.A.
 6.16.1. Number of seating positions: 2
 6.16.1.1. Location and arrangement: N.A.

Coupling devices

7.2.8. Type-approval number of coupling-device: N.A.

Environmental performance

4.0.1. Environmental step: Euro (3/4/5/5+)
 4.0.6. Sound level measured according to: N.A.
 4.0.6.1. Stationary: N.A. at engine speed: N.A.
 4.0.6.2. Drive-by: N.A.
 4.0.6.3. Limit value for L_{urban}: N.A.

3.2.15. Exhaust emissions measured according to Regulation (EU) No 134/2014 including all amendments up to (EU) 2018/295
 3.2.15.1. Type I test: tailpipe emissions after cold start, including the deterioration factor, if applicable:
 CO : N.A.
 THC : N.A.
 NMHC : N.A.
 NOx : N.A.
 THC+NOx : N.A.
 PM : N.A.

3.2.15.2. Type II test: tailpipe emissions at (increased) idle and free acceleration:
 HC: N.A.
 CO: N.A.

3.2.15.3. Smoke corrected absorption coefficient: N.A.

Energy efficiency

4.0.2. Fuel consumption: N.A.
 4.0.3. CO₂ emissions: N.A.
 4.0.4. Energy consumption: 29 Wh/km
 4.0.5. Electric range: 50 km

Conversion of the performance of the vehicle:

8.1. Vehicle appropriate for converting its performance level between subcategories (L3e/L4e)-A2 and (L3e/L4e)-A3 and vice versa: ~~yes~~ N.A.

Additional information:

9.1. Remarks: N.A.
 9.2. Exemptions: N.A.