

Shandong Shengwo New Energy Development Co., Ltd.
Complete vehicle
EU CERTIFICATE OF CONFORMITY

The undersigned: Fan Luyin, General manager

Hereby certifies that the following complete vehicle:

- 1.1. Make (trade name of the manufacturer): **FANGPOWER, Kontio Motors, YUKI, mitt**
- 1.2. Type: SW570-T
- 1.2.1. Variant: SW570-T
- 1.2.2.. Version: B
- 1.2.3. Commercial name (if available): SW570-T
- 1.3. Category, subcategory and speed index of vehicle: T3b

- 1.4. Company name and address of manufacturer:
Shandong Shengwo New Energy Development Co., Ltd.
No.10A, North Zone, Comprehensive Bonded Zone, High-tech Zone, Zibo City, Shandong Province, China

- 1.4.2. Name and address of manufacturer's authorized representative (if any):
VANNETUKKU.FI OY
Kivirannantie 9 74100 IISALMI, Finland

- 1.5.1. Location of the manufacturer's statutory plate(s): On the left side of front chassis, L, x-39, y-98, z606

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

- 1.6.1. Location of the vehicle identification number on the chassis:
On the rear right side of chassis, R, x1152, y123, z619

- 2. Vehicle identification number: **H0XADAKZ????????**

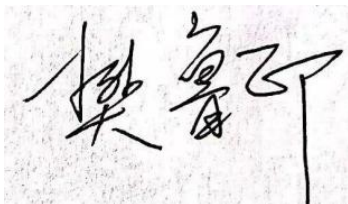
conforms in all respects to the type described in EU type-approval e13*167/2013*00414*00 (type-approval number including extension number) issued on 21.09.2022 (date of issue) and can be permanently registered in Member States having right/left-hand traffic and using metric/imperial-units for the speedometer.

Zibo, China

DD, MM, YYYY

(place)

(date)



(signature)

General construction characteristics

- 3.3.1. Number of axles: 2 and wheels: 4
- 3.3.2. Number of position of axles with twinned wheels: N.A.
- 3.3.3. Number of position of steered axles: 1, F(Front)
- 3.3.4. Number of position of powered axles: Normal drive mode 2WD: 1, R(rear)
Non permanent four wheel drive 4WD: 2, F&R (front and rear) managing on demand
- 3.3.5. Number of position of braked axles: 2, F&R (front and rear)
- 3.4.1. Crawler undercarriage configuration: N.A.
- 3.4.2. Number and position of powered set of track trains: N.A.
- 3.4.3. Number and position of braked set of track trains: N.A.
- 3.4.4. Steering by: N.A.
 - changing the speed between the left-hand side and right-hand side track trains: ~~yes~~/no N.A.
 - pivoting of two opposite or all four track trains: ~~yes~~/no N.A.
 - articulation if the front and rear part of the vehicle around a central vertical axis: ~~yes~~/no N.A.
 - articulation if the front and rear part of the vehicle around a central vertical axis and changing the direction of the wheels on the wheeled axle: ~~yes~~/no N.A.

Constructions characteristics for special purposes

- 47.1. Vehicle equipped with falling object protective structures (FOPS) for forestry applications: N.A.
- 47.2. Vehicle equipped with falling object protective structures (FOPS) for other applications than forestry: N.A.
- 55.1. Vehicle equipped with protection against penetrating object (OPS) for forestry applications: N.A.
- 55.2. Vehicle equipped with protection against penetrating object (OPS) for other applications than forestry: N.A.
- 58.3. Vehicle equipped with a cab classified for protection against hazardous substances of category: 2/3/4 and a Dust filter/Aerosol filter/Vapour filter with regard to protection against hazardous substances. N.A.
- 59. Vehicle with machinery mounted: ~~yes~~/no
- 59.1. General description of the machinery and its inter-action with the vehicle:
Powered winch, function is front towing device

Masses

- 4.1.1.1. Unladen mass in running order:
 - 4.1.1.1.1. Maximum: 467 kg
 - 4.1.1.1.2. Minimum: 467 kg
- 4.1.2.1. Technically permissible maximum laden mass(es): 602 kg
 - 4.1.2.1.1. Technically permissible maximum mass(es) per axle: Axle 1: 264 kg Axle 2: 338 kg
- 4.1.2.2. Mass(es) and tyre(s)

Axle No	Tyre dimension including load capacity index and speed category symbol	Rolling radius [mm]	Tyre load rating per tyre [kg]	Maximum permissible mass per axle [kg] (*)	Maximum permissible mass of the vehicle [kg] (*)	Maximum permissible vertical load on the coupling point [kg] (*) (**)(***)	Track width [mm]	
							Minimum	Maximum
1	AT25x8-12	43F	317	155	264	25	974	974
2	AT25x10-12	50F	317	190	338		960	960
1	AT25x8-12	43J	317	155	264	25	974	974
2	AT25x10-12	50J	317	190	338		960	960
1	25x8-12	42J	317	150	264	25	974	974
2	25x10-12	47J	317	175	338		960	960
1	AT25x8-12	40L	317	140	264	25	974	974
2	AT25x10-12	50L	317	190	338		960	960
1	AT25x8-12	40F	317	140	264	25	974	974
2	AT25x10-12	50F	317	190	338		960	960

- (*) According to the tyre specification
- (**) Load transmitted to the reference centre of the coupling under static conditions, irrespective to the coupling device; if the maximum permissible vertical load on the coupling point depending on the coupling is indicated in this table, expand the table at the right side and indicate the identification of the coupling device in the header of the column; for R- or S-category vehicles this column(s) concerns the rear coupling devices if there is such a device.
- (***) Value to be provided only if the maximum permissible vertical load on the coupling point is lower than indicated in entries 38.3 and 38.4

- 4.1.2.3. Mass(es) and crawler undercarriage: N.A.
- 4.1.3. Technically permissible towable mass(es) for each chassis/braking configuration of the R- or S-category vehicle:

R- and S-category vehicle	Drawbar	Rigid drawbar	Center-axle
Unbraked	300 kg	N.A.	N.A.
Inertia-braked	400 kg	N.A.	N.A.
Hydraulic braked	N.A.	N.A.	N.A.
Pneumatic braked	N.A.	N.A.	N.A.

- 4.1.4. Total technically permissible towable mass(es) of the combination with a towed vehicle (R- or S-category vehicle) for each chassis/braking configuration of the R- or S-category vehicle:

R- and S-category vehicle	Drawbar	Rigid drawbar	Center-axle
Unbraked	902 kg	N.A.	N.A.
Inertia-braked	1002 kg	N.A.	N.A.
Hydraulic braked	N.A.	N.A.	N.A.
Pneumatic braked	N.A.	N.A.	N.A.

Ballast masses

- 29.2. Number of sets of ballast masses: N.A.
- 29.4. Total mass of ballast masses: N.A.
- 29.2.1. Number of components on each set: N.A.

Main dimensions

- 4.2.1. For incomplete vehicles
- 4.2.1.1. Permissible length for the completed vehicle: N.A. 4.2.1.2. Permissible width for the completed vehicle: N.A.
- 4.2.1.3. Height (in running order): N.A.
- 4.2.2. For complete/completed vehicles
- 4.2.2.1.1. Length for on-road use: Maximum: 2315 mm, Minimum: 2315 mm
- 4.2.2.1.2. Width for on-road use: Maximum: 1214 mm, Minimum: 1214 mm
- 4.2.2.1.3. Height for on-road use: Maximum: 1370 mm, Minimum: 1370 mm
- 4.2.2.5. Wheelbase: 1370 mm
- 4.2.2.8. Track width: Maximum: Axle 1: 974 mm, Axle 2: 960 mm Minimum: Axle 1: 974 mm, Axle 2: 960 mm

General powertrain characteristics

- 5.1.1.1. Declared maximum design vehicle speed: 60 km/h
- 5.1.2.1. Declared rearward maximum design vehicle speed: 20 km/h

Engine

- 2.1. Make (trade name of the manufacturer): FANGPOWER 2.2. Type: GK192MR-2
- 2.2.2. Type-approval number without extension: e13*2016/1628*2021/1068AT1/P*0612
- 6.1.7. Category and sub-category of the engine: ATS-v-1 6.2.1. Combustion cycle: four stroke cycle/~~two stroke cycle/rotary/other (specify)~~
- 6.2.3.1. Cylinders' number: 1 and configuration: S 6.2.2. Ignition Type: ~~Compression ignition/spark ignition~~
- 6.2.8.3. List of additional fuels compatible with use by the engine: N.A. 6.2.8.1. Fuel Type: Petrol (E10)
- 6.3.2.2.2. Maximum net power: 24.4 kW 6.3.2.1.2. Declared rated net power: N.A.
- 6.3.6.4. Engine total swept volume: 499 cm³

Gearbox

- 11.2.8. Type of transmission ratio change system: ~~Mechanical (gear change) / Double clutch (gear change) / Semi-automatic (gear change) / Automatic (gear change) / Continuously Variable Transmission / hydrostatic / not applicable / other (1) (if other, specify: ...)~~

Steering

- 13.2. Steering category: ~~manual/power-assisted/serve steering/differential~~

Braking

- 43.4.6. Electronic braking system: ~~yes/no/optional~~ 43.5.1. Braking transmission: ~~mechanical/pneumatic/hydraulic / hydrostatic / without power assistance/power-assisted/fully powered transmission~~ N.A.
- 43.6.1. Towed vehicle braking control system technology: N.A.
- 43.6.4. Connections type: N.A. 43.6.4.1. Supply pressure Hydraulic: N.A.
- 43.6.4.2. Supply pressure Pneumatic: N.A. 43.6.5. Presence of ISO 7638:2003 connector: N.A.

Rollover protective structure (ROPS)

- 2.1. Make(s) (trade name(s) of manufacturer): N.A.
- 2.2.2. Type-approval number(s): N.A.
- 46.1. Equipment of ROPS: ~~compulsory/optional/standard~~ N.A.
- 46.2. ROPS by: ~~cab/by frame/by roll bar(s) mounted at front/rear~~ N.A.
- 46.2.1. In the case of roll bar: ~~foldable/not foldable~~ N.A.
- 46.2.2. In the case of foldable roll bar: N.A.
- 46.2.2.1. Folding operation: ~~non-assisted / partially assisted / fully assisted~~ N.A.
- 46.2.2.2.1. Hand-operated foldable ROPS: ~~with tools/without tools~~ N.A.
- 46.2.2.4. Locking mechanism: ~~manual/automatic~~ N.A.

Seating positions (saddles and seats)

- 49.1. Seating position configuration: ~~seat/saddle~~ 49.4.2. Driver's seat type category: ~~category A class I/II/III, category B~~
- 49.4.3. Reversible driving position: ~~yes/no~~ 49.5.1. Number of passenger seats: 1

Load platform(s)

- 33.1.1. Length of the load platform(s): N.A. 33.1.2. Width of load platform(s): N.A.
- 33.1.3. Height of load platform(s) above the ground: N.A.
- 33.2. Safe load carrying capacity of load platform declared by manufacturer: N.A.

Mechanical couplings

38.3. Rear mechanical coupling

Type (according to Appendix 1 to Annex XXXIV to Commission Delegated Regulation (EU) 2015/208):	A50-X
Make:	FANGPOWER
Manufacturer's type designation:	27-A05-07200
(EU) type-approval mark or -number:	E13*55R02/02*4797*01
Maximum horizontal load/D-Value:	5.12 kN
Towable mass (T)	100 kg
Maximum permissible vertical load on the coupling point:	A50-X
Position of coupling point	height above ground
	Minimum:350 mm, maximum:420 mm

	distance from vertical plane passing through the axis of the rear axle	Minimum:464 mm, maximum:464 mm
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Three-point lifting mechanism

39.1. Three-point lifting mechanism: ~~from mounted/rear mounted/both front and rear mounted/inexistent~~ N.A.
 39.2. Maximum towable mass: N.A.

Additional coupling points

40.1. Additional coupling points: ~~yes/no/optional~~ N.A.

Power take-off(s)

51.2. Main PTO: ~~Position: front/rear/other~~ N.A. 51.3. Secondary PTO: ~~Position: front/rear/other~~ N.A.
 51.2.3. Optional: Power at the power take-off (PTO) at the rated speed(s) (in accordance with OECD Code 2 or ISO789-1:1990 (Agricultural tractors-Test procedures-Part 1: Power tests for power take-off)): N.A.

Result of the sound level test (external):

Measured in accordance with Annex II to Commission Delegated Regulation (EU) 2018/985, as last amended by Commission Delegated Regulation (EU) 2022/518
 Moving: 82.1 dB(A) Stationary: 80.2 dB(A) Engine speed: 5063 min⁻¹

Driver-perceived sound level:

Measured according to Annex XIII to Commission Delegated Regulation (EU) 1322/2014, as last amended by Commission Delegated Regulation (EU) 2018/830
 Driver's exposure to noise level: 85.6 dB(A)
 Test method used: Test method 2 in accordance with: section 3 of Annex XIII to Commission Delegated Regulation (EU) 1322/2014

Results of exhaust emission tests (inclusive of Deterioration Factor)

Measured according to:
 - Commission Delegated Regulation (EU) 2018/985, as last amended by Commission Delegated Regulation (EU) 2022/518 ~~yes/no~~; or
 - Regulation (EU) 2016/1628 of the European Parliament and of the Council, as last amended by Regulation (EU) 2021/1068 ~~yes/no~~; or
 - Regulation (EC) No 595/2009 of the European Parliament and of the Council, as last amended by Regulation (EU) 2019/1242 : ~~yes/no~~;

Emissions	CO (g/kWh)	HC (g/kWh)	NO _x (g/kWh)	HC + NO _x (g/kWh)	PM (g/kWh)	PN (#/kWh)	Test Cycle ⁽¹⁾
NRSC ⁽²⁾ /ESC/WHSC ⁽⁴⁾	72.58	---	---	7.31	N.A.	N.A.	G1
NR transient test ⁽³⁾ /ETC/WHTC ⁽⁴⁾	---	---	---	---	---	---	---
CO ₂ result ⁽⁴⁾ (g/kWh):	1105.38						

Explanatory notes:
 For engines tested on heavy duty test cycles, indicate the final test results (inclusive of Deterioration Factor) and the CO₂ result of the ESC/WHSC or ETC/WHTC test in accordance with Regulation (EC) 595/2009.
 For engines tested on non-road test cycles, indicate the applicable information of the Test Report For Non-Road Engines set out in Appendix 1 to Annex VI to Commission Implementing Regulation (EU) 2017/656, in accordance with the following explanatory notes:
 (1) For NRSC, note the cycle indicated in point 9.1 (Table 4) of; for transient test note the cycle indicated in point 10.1 (Table 8).
 (2) Copy the "Final test result with DF" results from Table 6.
 (3) Copy the "Final test result with DF" results from Table 9 or, as applicable, from Table 10.
 (4) For an engine type or engine family that is tested on both the NRSC and a non-road transient cycle, indicate the hot cycle CO₂ emissions values from the NRTC noted in point 10.3.4 or the CO₂ emissions values from the LSI-NRTC noted in point 10.4.4. For an engine only tested on an NRSC indicate the CO₂ emissions values given in that cycle from point 9.3.3.;

Comments: EC declaration of conformity in accordance with 2006/42/EC for winch mounted on the vehicle