



LS Mtron Ltd.

11F, LS Tower, 127 LS-Ro, Dongan-Gu, Anyang-Si, Gyeonggi-Do, 431-080 KOREA Tel 82.31.689.8270 Fax 82.689.8928

Model for the certificate of conformity

CERTIFICATE OF CONFORMITY ACCOMPANYING EACH VEHICLE IN THE SERIES OF THE SERIES IF THE TYPE WHICH HAS BEEN APPROVED

Section1 MODEL-A-COMplete VEHICLE

EU CERTIFICATE OF CONFORMITY

The undersigned: Joong-suk, Lee Manager / Quality Assurance Term
hereby certify that the following tractor:

- 1.1. Make (trade name of the manufacturer): ----- LS Mtron Ltd.
- 1.2. Type: ----- XU-SERIES
- 1.2.1. Variant(s): ----- XU68EUCAMT
- 1.2.2. Version(s): ----- N/A
- 1.2.3. Commercial name(s) (if available): ----- XU6168
- 1.3. Category, subcategory and speed index of vehicle: ----- T1a
- 1.4. Company name and address of manufacturer: ----- LS Mtron Ltd.
127, LS-Ro, Dongan-Gu, Anyang-Si, Gyeonggi-Do, Korea
- 1.4.2. Name and address of manufacturer's authorised representative (if any): ----- MOVITER Equipamentos SA
Parque Movicortes, 2404-006 Azoria, Leiria, Portugal
- 1.5.1. Location of the manufacturer's statutory plate: ----- Front right side of tractor frame
- 1.5.2. Method of attachment: ----- Riveting
- 1.6.1. Location of the vehicle identification number on the chassis: ----- Front right side of tractor frame
2. Vehicle identification number: KLJ22732HLJ002772 ----- Right side of tractor frame

conforms in all respects to the type described in EU type-approval ----- e13*167/2013*00139*00
issued on ----- 22 December 2017
and can be permanently registered in Member States having right-hand traffic and using metric/imperial units for the speedometer

Wanju-Gun, Jeollabuk-Do, Korea
Place

14 February 2020
Date

Joong-suk, Lee
Signature





Section2
Model 1 – VEHICLE CATEGORY T
(COMPLETE VEHICLE)

General construction characteristics

- 3.3.1. Number of axles and wheels: ----- 2 axles, 4 wheels
- 3.3.2. Number and position of axles with twinned wheels: ----- N/A
- 3.3.3. Number and position of steered axles: ----- 1, Front
- 3.3.4. Number and position of powered axles: ----- 2, Front and rear when 4WD is engaged
1, Rear when 4WD is disengaged
- 3.3.5. Number and position of braked axles: ----- 2, Front and rear when 4WD is engaged
1, Rear when 4WD is disengaged
- 3.4.1. Crawler undercarriage configuration: set of track trains at front/set of track trains at rear/set of track trains at front and rear/continuous track train at each side of the vehicle: ----- 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
 - pivoting of two opposite or all four track trains: yes/no
 - articulation of the front and rear part of the vehicle around a central vertical axis: yes/no
 - articulation of the front and rear part of the vehicle around a central vertical axis and by changing the direction of the wheels on the wheeled axle: yes/no
- 3.5.2. Type of chassis: backbone/central tube/ladder/articulated/chassis with side members/other (if other: specify ...): ----- Chassis with side members

Constructions characteristics for special purposes

- 47.1. Vehicle equipped with falling object protective structures(FOPS) for forestry applications: -----
T - category vehicles equipped for forestry applications
- 47.2. Vehicle equipped with falling object protective structures(FOPS) for other applications than forestry: -----
All other T - category vehicles fitted with FOPS
- 55.1. Vehicle equipped with protection against penetrating objects(OPS) for forestry applications: -----
T - category vehicles equipped for forestry applications
- 55.2. Vehicle equipped with protection against penetrating objects(OPS) for other applications than forestry: -----
All other T - category vehicles fitted with OPS
- 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: ----- **CA*: Yes
59. Vehicle with machinery mounted on it: ----- For T – category vehicles, machinery mounted on the vehicle
- 59.1. General description of the machinery and its inter-action with the vehicle: ----- N/A



Masses

4.1.1.1. Unladen mass(es) in running order

4.1.1.1.1. Maximum: 2,395kg

4.1.1.1.2. Minimum: 2,345kg

4.1.2.1. Technically permissible maximum laden mass(es): see point 4.1.2.2

4.1.2.1.1. Technically permissible maximum mass(es) per axle: see point 4.1.2.2

4.1.2.2. Mass(es) and tyre(s):

Tyre combination No.	Axle No	Tyre dimension including load capacity index and speed category symbol	Roll-ing radius (mm)	Tyre Load rating per tyre(kg)	Maximum permissible mass per axle [kg](*)	Maximum permissible mass of the vehicle [kg](*)	permissible vertical load on the coupling point [kg](*)(**)(***)	Track width(mm)	
								Minimum	Maximum
1	F	11.2-20 8PR 532 112 A6	492	1120	2000	*EUCA*: 4260 *EURF*: 4070	XU-DBT: 400kg	1410	1742
	R	14.9-28 8PR HS603 129 A6	659	1865	3150			1392	1718

(*) 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 T-vehicles for each chassis/braking configuration of the R- or S-category vehicle (for R- and S- category vehicles, indicate the maximum permissible load(s) on the rear coupling point)

Brake \ R-and S category vehicle	Drawbar	Rigid drawbar	Center-axle
Unbraked	Unladen: 750kg Laden: 940kg	Unladen: 750kg Laden: 940kg	Unladen: 750kg Laden: 940kg
Inertia braked	4500kg	4500kg	4500kg
Hydraulic braked	N/A	N/A	N/A
Pneumatic braked	N/A	N/A	N/A

- 4.1.4. Total technically permissible mass(es) of the tractor(T- or C- category vehicles) and towed vehicle (R- or S- category vehicle) combination for each chassis/braking configuration of the R- or S- category vehicle

For *EU**

Brake \ R-and S category vehicle	Drawbar (kg)	Rigid drawbar (kg)	Centre-axle (kg)
Unbraked(*)	Unladen: 5010kg Laden: 5200kg	Unladen: 5010kg Laden: 5200kg	Unladen: 5010kg Laden: 5200kg
Inertia braked	8570~8760kg	8570~8760kg	8570~8760kg
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: ----- See point 29.4

29.2.1. Number of components on each set: Set1: ... Set2: ... Set ...: ----- See point 29.4

29.4. Total mass of ballast masses: ... kg: -----

No	Front ballasts	Rear ballasts(**)	Total mass(es) (kg)	Front mass (kg)	Rear mass (kg)
1	No ballast	No weight	0	0	0
2		90kg(2ea)	90	0	90
3	4-front ballast masses (*)	No weight	80	108	-28
4		90kg(2ea)	170	108	62
5	6-front ballast masses (*)	No weight	120	161	-41
6		90kg(2ea)	210	161	49
7	6-front ballast masses (*)	No weight	160	215	-55
8		90kg(2ea)	250	215	35

* Front ballasts mass : 20kg/each plate

** Rear ballasts mass : 45kg/each plate



Main dimensions

4.2.2. For complete vehicles

4.2.2.1.1. Length for on-road use: ----- maximum: 3,912mm / minimum: 3,912mm

4.2.2.1.2. Width for on-road use: ----- maximum: 2,103mm / minimum: 1,777mm

4.2.2.1.3. Height for on-road use: ----- maximum: 2,525mm / minimum: 2,525mm

4.2.2.5. Wheelbase: ----- 2,086mm

4.2.2.8. Track width: ----- maximum: 1,742mm for front wheel, 1,718mm for rear wheel
minimum: 1,410mm for front wheel, 1,392mm for rear wheel

General powertrain characteristics

5.1.1.1. Declared maximum design vehicle speed: ----- 29.0km/h

5.1.2.1. Declared rearward maximum design vehicle speed: ----- 23.8km/h

5.2. Rated engine net power: (UNECE R120)----- 50.7kW - 2500min⁻¹

5.3. Maximum engine net power: (UNECE R120) ----- 50.7kW - 2500min⁻¹

5.5. Fuel type: ----- B5(Diesel)

Engine

2.1. Make(s) (trade name(s) of manufacturer): ----- LS Mtron Ltd.

2.2. Type: (Operating principle) ----- L4C25-T2

2.2.2. Type-approval number without extension: ----- e13*97/68PA*2012/46*0757*00

2.5.2. Manufacturer's type coding (as marked on the engine or other means of identification): ----- L4C25-T2

6.1. Cycle: ----- four stroke

6.4. Number and layout of cylinders: ----- 4, L1(in-line), vertical, From cooling fan side 1-2-3-4

6.5. Engine capacity: ----- 2,505cm³

7.1.1. Combustion cycle: positive ignition/compression ignition: ----- compression ignition

**Gearbox**

11.2.8. Type of gear shift system(s): ----- Mechanical lever and linkage

Steering

13.2. Steering category: ----- Power-assisted

Braking

43.4.6. Electronic braking system: ----- N/A

43.5.1. Braking transmission: ----- Mechanical

43.6.1. Towed vehicle braking control system technology: ----- Hydraulic/Pneumatic/Electric/None

43.6.4. Connections type: ----- Single line/Two lines/None

43.6.4.1. Supply pressure Hydraulic: Single line: ... kPa Two lines ... kPa ----- N/A

43.6.4.2. Supply pressure Pneumatic: ... Two lines: ... kPa ----- N/A

43.6.5. Presence of ISO 7638:2003 connector: ----- yes/no

Rollover protective structure (ROPS)

2.1. Make(s) (trade name(s) of manufacturer): ----- LS Mtron Ltd.

2.2.2. Type-approval number(s) (if available): ----- e13*1322/2014*2016/1788U3*00140*00

46.1. Equipment of ROPS: ----- compulsory/optional/standard

46.2. ROPS by cab/by frame/by roll bar(s) mounted at front/rear: ----- Cab

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 position(saddles and seats)**

- 49.1. Seating position configuration: ----- Seat
- 49.4.2. Driver's seat type category: ----- Category A, class II for Woochang(W10SSS)
Category A, class II&III for Grammer(DS85H/90)
- 49.4.3. Reversible driving position: -----No
- 49.5.1. Number of passenger seats: ----- N/A

Load platform(s)

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

Mechanical couplings

- 38.3. Rear mechanical coupling: -----

Type (according to Appendix 1 to Annex XXXIV to Commission Delegated Regulation (EU) 2015/208)			Tractor drawbar
Make			LS Mtron Ltd.
Manufacturer's type designation			XU-DBT
(EU) type-approval mark or -number			e13*2015/208*2016/1788NS*00060*00
Maximum horizontal load/D-Value: ... kg/kN			N/A
Towable mass (T)			4.5tonnes
Maximum permissible vertical load on the coupling point			450kg
Position of coupling point	height above ground	minimum	379mm
		maximum	489mm
	distance from vertical plane passing through the axis of the rear axle	minimum	800mm
		maximum	890mm

Three-point lifting mechanism

- 39.1. Three-point lifting mechanism: ----- Rear mounted acc. to ISO 730:2009
- 39.2. Maximum towable mass: ... kg: -----1580kg

**Additional coupling points**

40.1. Additional coupling points: ----- yes/no/optional

Power take-off(s)

51.2. Main PTO: position: front/rear/other (if other specify: ...): ----- rear

51.3. Secondary PTO: position: front/rear/other (if other specify: ...) ----- 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 ISO 789-1:1990 (Agricultural tractors — Test procedures — Part 1: Power tests for power take-off))

Rated speed PTO (min ⁻¹)	Corresponding engine speed (min ⁻¹)	Power (kW)		
		XU58**	XU63**	XU68**
1-540	2409	35.0	39.1	42.7
2-1000	2381	34.9	39.0	42.6
540E	1710	29.8	33.2	36.3
750	2375	34.8	38.9	42.5

Results of the sound level test(external)

Measured according to Annex III to Commission Delegated Regulation (EU) 2015/96, as last amended by Commission Delegated Regulation (EU)

Moving	81.9dB(A)
Stationary	81.2dB(A)
Engine speed	2,700

Driver-perceived sound level

Measured according to Annex XIII to Commission Delegated Regulation (EU) No 1322/2014, as last amended by Commission Delegated Regulation (EU)

Driver's exposure to noise level	87.8dB(A) closed/ 87.6dB(A) opened
Test method used	Test method 1



Results of exhaust emission tests (inclusive of Deterioration Factor)

Measured according to:

- Annex I to Commission Delegated Regulation (EU) 2015/96, as last amended by Commission Delegated Regulation (EU) .../... : -----yes/no
- Annex X II to Directive 97/68/EC of the European Parliament and of the Council, as last amended by (Commission) Directive No .../.../EU: -----yes/no
- Regulation (EC) No 595/2009 of the European Parliament and of the Council, as last amended by (Commission Delegated) Regulation (EU) (No) .../... (of the European Parliament and of the Council): -----yes/no
- Annex 4B to UNECE Regulation No 96.04 series of amendments (OJL 88,22.3.2014, p.1): -----yes/no

Cycle	NRSC/ESC/WHSC	NRTC/ETC/WHTC
Stage	STAGE IIIB	STAGE IIIB
CO(g/kWh)	0.158	0.056e
HC(g/kWh)	0.107	0.028
NOx(g/kWh)	2.857	3.097e
HC+NOx(g/kWh)	2.964	3.125
PM(g/kWh)	0.004	0.006
CO ₂ (g/kWh)	742.9	-
NMHC(g/kWh)	not applicable	not applicable
CH ₄ (g/kWh)	not applicable	-
NRTC hot cycle CO ₂ (g/kWh)	not applicable	808.3
NRTC hot cycle work	not applicable	-
Cycle work for hot start w/o regeneration	not applicable	-

Comments: -----

Vehicle compliant to TMR - Reg. (EU) 167/2013 last amended by: ----- Reg. (EU) 2018/830

Vehicle compliant to RVBR - Reg. (EU) 2015/68 last amended by: ----- Reg. (EU) 2018/828

Vehicle compliant to RVFSR - Reg. (EU) 2015/208 last amended by: ----- Reg. (EU) 2018/829

Vehicle compliant to RVCR - Reg. (EU) 1322/2014 last amended by: ----- Reg. (EU) 2018/830