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

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: ---------- 1, Rear (when front wheel drive gear is engaged)
2, Front and rear (when front wheel drive is disengaged)

3.3.5. Number and position of braked axles: ---------- 1, Rear (when front wheel drive gear is engaged)
2, Front and rear (when front wheel drive 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:
- pivoting of two opposite or all four track trains:
- articulation of the front and rear part of the vehicle around a central vertical axis:
- 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:

3.5.2. Type of chassis: backbone/central tube/ladder/articulated/chassis with side members/other (if other: specify …): ---------- Backbone

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: ---------- Yes

55.1. Vehicle equipped with protection against penetrating objects(OPS) for forestry applications: ---------- N/A

55.2. Vehicle equipped with protection against penetrating objects(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: ---------- Yes

59. Vehicle with machinery mounted on it: ---------- N/A

59.1. General description of the machinery and its inter-action with the vehicle: ---------- N/A

Vehicle identification number: KLJ23912HMJ000002

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Masses

4.1.1.1. Unladen mass(es) in running order

4.1.1.1.1. Maximum: ----------2370kg

4.1.1.1.2. Minimum: ----------2370kg

4.1.2.1. Technically permissible maximum laden mass(es): ---------- 4260kg

4.1.2.1.1. Technically permissible maximum mass(es) per axle: ----------Axle1: 2000kg, Axle2: 2440kg

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

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 R-1	492	1120	2000	4260	2000	XU-DBT : 400 kg	1410	1742
	R	14.9-28 8PR HS603 129 A6 R-1	646	1850	2440		2260		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.
(***) As recommended by the manufacturer.

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:

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 combination with a towed vehicle(R- or S- category vehicle) for each chassis/braking configuration of the R- or S-category vehicle:

Brake \ R-and S category vehicle	Drawbar	Rigid drawbar	Center-axle
Unbraked	Unladen : 5010kg Laden : 5200kg	Unladen : 5010kg Laden : 5200kg	Unladen : 5010kg Laden : 5200kg
Inertia braked	8760kg	8760kg	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: ---------- See below

No.	Front ballasts	Rear ballasts(**)	Total mass(es) (kg)	Distribution of these masses	
				Front masses (kg)	Rear masses (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	8-front ballast masses (*)	No weight	160	215	-55
8		90kg (2ea)	250	215	35

* Front ballast mass : 20kg/each plate
** Rear ballast mass : 45kg/each plate

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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): maximum…mm minimum…mm:	N/A
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: 2,512mm / minimum: 2,512mm
4.2.2.5.	Wheelbase:	2086mm
4.2.2.8.	Track width:	see point 4.1.2.2

General powertrain characteristics

5.1.1.3.	Declared maximum design vehicle speed:	28.4km/h
5.1.2.2.	Declared rearward maximum design vehicle speed:	23.4km/h

Engine

2.1.	Make(s) (trade name(s) of manufacturer):	LS Mtron Ltd.
2.2.	Type:	L4CRV-T4
2.2.2.	Type-approval number without extension:	e13*2016/1628*2016/1628EV4/D*0404
6.1.7.	Category and sub-category of the engine:	NRE-v-4
6.2.1.	Combustion Cycle: four stroke cycle/two stroke cycle/rotary/other (specify):	Four stroke cycle
6.2.2.	Ignition Type: Compression ignition/spark ignition:	Compression ignition
6.2.3.1.	Cylinders' number: … and configuration:	4, LI(in-line), Vertical
6.2.8.1.	Fuel Type : Fuel type / Sub Fuel type / Fuelling arrangement:	B5(Diesel) / None / Liquid-fuel only
6.2.8.3.	List of additional fuels compatible with use by the engine:	not applicable
6.3.2.1.2.	Declared rated net power: … kW:	50.7kW
6.3.2.2.2.	Maximum net power: … kW:	50.7kW
6.3.6.4.	Engine total swept volume: … cm^3:	2505cm^3

Vehicle identification number: KLJ23912HMJ000002

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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 (if other, specify: ...): ---------- Mechanical (gear change)

Steering

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

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: ---------- 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, LS Tractor, LS Cable, LS Mtron, LS Mtron Ltd.

2.2.2. Type-approval number(s) (if available): ----------e6*1322/2014*2018/830U3*00036*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

46.2.2.2. Locking mechanism: manual/automatic: ----------N/A

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Seating position(saddles and seats)

49.1. Seating position configuration: ----------Seat

49.4.2. Driver's seat type category: ----------Category A, class II

49.4.3. Reversible driving position: ----------~~yes~~/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, LS Tractor, LS Cable, LS Mtron, LS Mtron Ltd
Manufacturer's type designation			XU-DBTS
(EU) type-approval mark or -number			e6-00065 NS
Maximum horizontal load/D-Value			N/A
Towable mass (T)			4.5 tonnes
Maximum permissible vertical load on the coupling point			400kg
Position of coupling point	height above ground	minimum	360mm
		maximum	470mm
	distance from vertical plane passing through the axis of the rear axle	minimum	800mm
		maximum	890mm

Tree-point lifting mechanism

39.1. Three-point lifting mechanism: ----------Rear mounted

39.2. Maximum towable mass: … kg: ---------- 1580kg(excluding unbraked trailer)

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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 (rpm)	Corresponding engine speed (rpm)	Power (kW)		
		XU58***	XU63***	XU68***
1-540	1958	35.0	39.1	42.7
2-1000	2125	34.9	39.0	42.6
540E	1535	29.8	33.2	36.3
750	2132	34.8	38.9	42.5

Results of the sound level test(external)

Measured according to Annex II to Commission Delegated Regulation (EU) 2018/985, as last amended by Commission Delegated Regulation (EU)

Moving	82 dB(A)
Stationary	81 dB(A)
Engine speed	Moving: 2,500 min^{-1}, Stationary: 2,700 min^{-1}

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	84.7dB(A)
Test method used	Test method 1