

KL21.5L

Wheel loaders

POWER IN COMPACT FORMAT

The KL21.5L wheel loader combines maximum performance with a compact design and is therefore ideal for agricultural operations. Thanks to its unique loading system, the KL21.5L provides excellent lifting and tear out forces, which enable the effortless movement of heavy loads like silage bales, feed or manure pallets. Depending on requirements, there are two engine options available: a 19 kW engine as standard and a 33 kW engine as an option. The powerful work hydraulics further enable the effortless application of specialist attachments, like the spreading device.

Unique loading system: The combination of stroke (28.6 kN), tear out force (33.1 kN) and tipping load (2115 kg) enables effortless and safe handling of heavy loads, like silage bales

Compact dimensions: Thanks to its compact dimensions with a vehicle width of 1.32 m, the KL21.5L is ideal for confined working environments such as narrow farm paths. With the optional maximum 400 mm wide tyres, the machine impresses with the largest possible contact area and therefore has optimum stability in stables and warehouses

Cab variants: Two full-featured wheel loader cabs, comfort cab (2.26 m height) and low cab (2.11 m height) offer excellent 360° visibility and ergonomically arranged control elements for simple and intuitive operation

Getting in and driving off: The machine is easy to operate even for inexperienced operators thanks to its undivided vehicle frame, high stability, manoeuvrability and constant payload as well as three types of steering (All wheel, crab and front wheel steering)

Versatile quick change plates: The fully hydraulic quickhitch system Smart Attach is available as an option and enables changing of attachments directly from the cab. In addition, alternative quick change plates, like the Euro-System, are also available

Technical Data

Standard engine data

Engine manufacturer	Yanmar
Drive output	18.5 kW
Drive output	25.2 PS
Maximum torque	2,500 U/min
Cylinder capacity	1,331 cm³
Exhaust standard level	V

Weights

Bucket capacity (standard bucket)	0.45 m³
Operating weight	2,900 - 3,200 kg
Payload (S=1.25)	1,300 kg
Tipping load (standard bucket)	2,115 kg
Tipping load (pallet fork)	1,625 kg
Tipping load (pallet fork)*	1,987 kg

Filling levels

Tank capacity for fuel	56 l
Tank capacity for hydraulic oil	19 l

Drive system

Travel speed Standard	0-20 km/h
Travel speed Option 1	0-30 km/h

Hydraulic system

Work hydraulics discharge volume (max.)	39 l/min

Kinematics

Kinematics type	PZ
Quick change system	hydraulic

Steering

Steering angle max.	38 degree

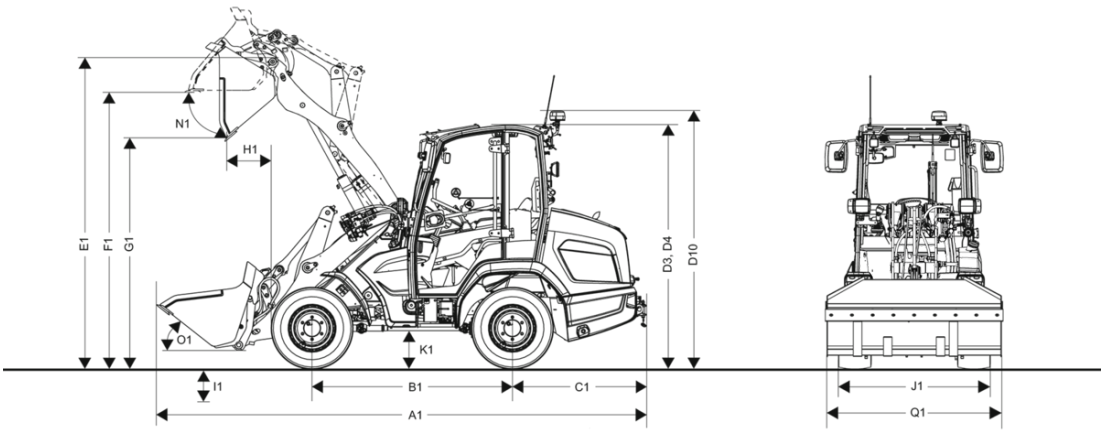
Noise characteristic values

Guaranteed sound power level LwA (cabin)	101 dB(A)
Measured sound power level LwA	96.9 dB(A)
Sound pressure level at the operator's ear	76 dB(A)

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Dimensions



A1	Total length with standard attachment	4,680 mm
B1	Wheel base center	1,860 mm
C1	Rear overhang	1,215 mm
D3	Height with cab	2,260 mm
D4	Height with cab lowered	2,110 mm
D10	Total height of cabin with rotating beacon	2,390 mm
E1	Max. height blade pivot point	2,913 mm
F1	Load-over height	2,620 mm
G1	Dumping height	2,120 mm
H1	Dumping width	470 mm
I1	Digging depth	55 mm
J1	Total width	1,320 mm
K1	Ground clearance	230 mm
L1	Turning radius outer edge wheels	2,430 mm
M1	Steering angle	38 °
N1	Dumping angle at max. lifting height	45 °
O1	Dumping angle at ground level	50 °
Q1	Bucket width	1,350 mm
R1	Stacking height	2,720 mm

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Standard components

Operator's cab

- Standard cabin with heating
- Rear-view mirror in the cabin
- Automatic turn-signal resetting
- Color-coded keypads for hydraulic, electric, driving and safety functions
- Mechanically-sprung operator's seat with faux leather cover (MSG85/721) with automatic seat belt; weight, back and horizontal adjustment
- Inspected according to ROPS and FOPS I
- Work lights 2x LED Basic on front, 2x LED Basic on rear (1000 Lumen)
- Lighting according to road traffic regulations

Power transmission

- Lubrication line for rear axle pendulum pins
- Combined brake/inch pedal
- Mechanical parking brake
- Front axle 100 % differential lock

Steering and work hydraulics

- Final position synchronization
- Hydrostatic all-wheel steering with emergency steering properties
- Joystick, electrical 3rd control circuit with continuous function, with roll switch for travel direction selection

Kinematics

- PZ-kinematics with optimised parallel motion
- Hydraulic quickhitch facility
- Visual position display for bucket and fork

Documentation

- Operator's manual, service manual

Options

Operator's cab & Cabine

- Cabin with heater
  - Possible seat options:
    - MSG85/721-fabric
    - MSG85/721-faux leather
    - MSG75GL/521+Air+Heater
- Low cabin with heater
  - Possible seat options:
    - MSG20 fabric-mech. sprung
    - MSG20 faux leather-mech. sprung
    - MSG75GL/521+Air+Heater
- Fold-down canopy
  - Possible seat options:
    - MSG85/721-faux leather

- Seat cover - faux leather
- Air-conditioning system
- External mirror right + left heated
- Front + rear heated windscreens
- Swivel-mounted steering column
- Radio installation
- Radio with DAB+ receiver
- Document box

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Lighting

- Rotating LED beacon (orange)
- 2x LED Basic front work lights (series)
- 2x LED Basic rear work lights (series)
- LED Performance work lights package (4400 lumen)
  - includes:
    - 2x LED Performance front work lights (4400 lumen)
    - 2x LED Performance rear work lights (4400 lumen)

Approval, road traffic

- License plate illumination, including license plate bracket
- Data confirmation (ABE) for self-propelled work machine (standard)*

*Germany, Luxembourg, Netherlands, Austria, Slovakia, the Czech Republic, Switzerland, Estonia, Latvia, Lithuania, Hungary

Drive system & Axles

- Yanmar 3TNV82 A 18.5KW S5-T4F (series)
  - not in conjunction with:
    - Travel speed 30 km/h
    - High Flow power hydraulics 69l/min; front only
    - Auto-stop
    - Air-conditioning system
    - Low-speed control CSD and hand throttle
- Yanmar 3TNV86 33.3KW S5-T4F
- Auto-stop
  - not in conjunction with:
    - Yanmar 3TNV82 A 18.5KW S5-T4F
- Steering mode change; all-wheel, crab and front-axle steering
- Front axle 100 % differential lock (standard)
- Low-speed control CSD and hand throttle
  - includes:
    - Power, Eco, Pedal/CSD modes
  - not in conjunction with:
    - Yanmar 3TNV82 A 18.5KW S5-T4F
- Travel speed 20 km/h (standard)
- Travel speed 30 km/h
  - only in association with:
    - Yanmar 3TNV86 33.3KW S5-T4F
    - Steering mode change; all-wheel, crab and front-axle steering
    - Registration plate lighting, including registration plate bracket
    - Automatic load stabiliser

Tires

- 31x15.5-15 BKT SPHD ET-10
- 10.0/75 15.3 BKT AS 504 ET55 (standard)
- 10.0-16.5 BKT SkidPower ET50
- BKT 31x15.50-15 BKT TR-313 ET-10
- 315/55R16 Conti MPT81 ET40

Loading system & Quick coupler system

- Automatic load stabiliser
- Floating position
- Fully hydraulic quickhitch facility; Kramer system HV/WL - C (standard)
- Smart Attach (fully hydraulic quickhitch facility); Kramer HV/WL - C system
  - only in association with:
    - Pressure release of 3rd control circuit
- Quickhitch system ISO23206 (EURO) HV
  - not in conjunction with:
    - Load hook
- Weidemann SWP hydraulic quickhitch system
  - not in conjunction with:
    - Load hook
- Load hook
  - not in conjunction with:
    - Quickhitch system ISO23206 (EURO) HV
    - Weidemann SWP hydraulic quickhitch system
- Loading system with increased lift height (PZ kinematics) - (standard)

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Hydraulics

- Filling the hydraulic system with environmentally friendly and biodegradable hydraulic oil
- Pressure release of 3rd control circuit
- Pre-heating package
  - includes:
    - Coolant pre-heating 230V
    - Fuel pre-heating
    - Hydraulic fluid pre-heating

Hydraulics - front area

- High Flow performance hydraulics 69l/min; front only
  - not in conjunction with:
    - Front unpressurised return line, return + oil leak
    - Yanmar 3TNV82 A 18.5KW S5-T4F
- Front unpressurised return line, return + oil leak
  - not in conjunction with:
    - High Flow performance hydraulics 69l/min; front only

Hydraulics - rear area

- Rear reversing valve on the 3rd control circuit

Electrical system

- Rear outlet, 13 pole
- Front outlet, 7 pole
- Battery isolator switch plus externally separating

Safety options

- Reverse alarm
- Hose burst valves for lift and tipping cylinders
- Drive interlock integrated in ignition switch key
  - not in conjunction with:
    - EquipCare + Dual ID
- Seatbelt alarm
  - not in conjunction with:
    - MSG75GL/521+Air+Heater
- Safety Belt Orange
  - not in conjunction with:
    - MSG75GL/521+Air+Heater
- Fire extinguisher (2 kg)
- Red / white warning stripes (DIN30710)

Paint

- Single-color RAL customized paint finish (gray parts not included)*
- Aggressive medium vehicle operation (salt and fertilizer use)

* We reserve the right to decline paint finishes that exhibit similarities to protected colors or color combinations of other manufacturers!

Other

- Central lubrication system
- Wheel chock
- EquipCare 36 mth
- EquipCare + Dual ID
  - not in conjunction with:
    - Drive interlock integrated in ignition switch key

Ball hitches

- Shunting coupling*
- Automatic ball hitch 38 mm - frame fixed*

* A tail socket must always be selected in conjunction with a ball hitch (not a shunting coupling)!
* Shunting / ball hitch / automatic trailer coupling can only be attached to a vehicle independent of one another!

Extended warranties

- Security 24 (2000 H)
- Security 36 (3000 H)
- Security 48 (4000 H)
- Security 60 (5000 H)

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