KL41.8

Wheel loaders

THE EFFICIENT POWERFUL WHEEL LOADER

The wheel loader KL41.8 has been developed for demanding application conditions. The machine is equipped with a comfortable cabin in which the control elements have been ergonomically arranged. The KL41.8 is characterized by its excellent versatility in terms of equipment options and optimal dimensions to provide the highest level of efficiency in every application of the performance range.

Driving modes: The operator can select the right operating mode (Power, Eco, Road, CSD) for every driving situation

Four steering modes: All-wheel, front-axle, crab steering and manual crab steering - the right steering system for every application

Cabin variant: Maximum compactness with the standard cabin and maximum upward visibility with the optional panoramic cabin

Smart Attach: Hydraulic attachments can be changed quickly, simply, and safely as a result of the series' installed full-hydraulic quickhitch plate

Traction: 100% selectable differential lock for excellent traction

Technical Data

Standard engine data

Engine manufacturer	Deutz
Drive output	55.4 kW
Drive output	75 PS
Cylinder capacity	2,924 cm³
Exhaust standard level	V
Exhaust aftertreatment	DOC / DPF

Weights

Bucket capacity (standard bucket)	1.05 m³
Payload (max.)	1,890 kg
Operating weight	5,400 - 6,000 kg
Payload (S=1.25)	2,500 kg
Tipping load (standard bucket)	4,100 kg
Tipping load (pallet fork)	3,200 kg

Filling levels

Tank capacity for fuel	120 l
Tank capacity for hydraulic oil	64 l

Drive system

Travel speed Standard	0-20 km/h
Travel speed Option 1	0-30 km/h
Travel speed Option 2	0-40 km/h
Differential lock	100 % front axle + rear axle

Hydraulic system

Work hydraulics discharge volume (max.)	80 l/min

Kinematics

Kinematics type	P
Quick change system	Kramer HV/WL-C; includes Smart Attach

Steering

Steering angle max.	40 degree

Noise characteristic values

Guaranteed sound power level LwA (cabin)	101 dB(A)
Measured sound power level LwA	98.8 dB(A)
Sound pressure level at the operator's ear	74 dB(A)

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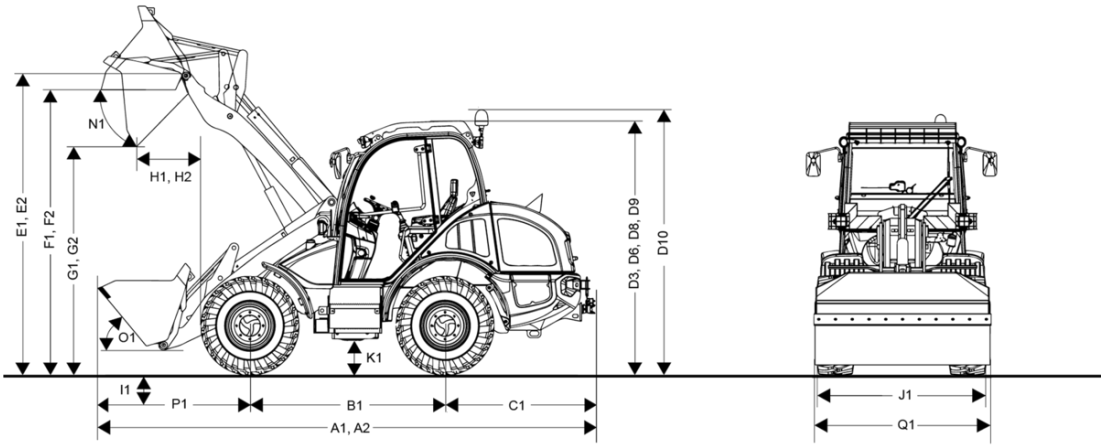
Dimensions



A1	Total length with standard attachment	5,730 mm
B1	Wheel base center	2,150 mm
C1	Rear overhang	1,620 mm
D3	Height with cab	2,650 mm
D6	Height with air-conditioning system	2,735 mm
D10	Total height of cabin with rotating beacon	2,925 mm
E1	Max. height blade pivot point	3,350 mm
F1	Load-over height	3,200 mm
G1	Dumping height	2,640 mm
H1	Dumping width	630 mm
I1	Digging depth	70 mm
J1	Total width	1,970 mm
K1	Ground clearance	350 mm
L1	Turning radius outer edge wheels	2,990 mm
M1	Steering angle	40 °
M2	Swing angle	22 °
N1	Dumping angle at max. lifting height	45 °
O1	Dumping angle at ground level	48 °
P1	Distance center front axle to tooth tip	2,040 mm
Q1	Bucket width	2,050 mm
R1	Stacking height	3,130 mm
D8	Height with panoramic cab	2,690 mm
D9	Height with panoramic cab and air-conditioning system	2,735 mm

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Standard components

Cab

- Soundproofed, vibration-insulated, 4-point cab with large, thermal insulation glazing deep-drawn and rear window heating
- Entry and exit on both sides
- Comfort seat with mechanical suspension (MSG85/722), with automatic seat belt, weight, backrest and two-fold horizontal adjustment
- 3-stage powerful heating and ventilation, and defroster nozzles on the front windscreen
- Colour-coded rocker switch for hydraulic, electric, driving and safety features
- Telescoping and adjustable tilting steering column
- Joystick console (fold-down)
- Sun visor, interior mirror, 12 V plug receptacle, cab light, large, foldable outside rear-view mirror on both sides
- Windscreen wipers front and back, front with intermittent wipers
- Working lights 2x LED basic rear, working lights 2x LED basic front (1000 Lm)
- StVZO (German road traffic regulations) lighting
- Tested according to ROPS and FOPS I

Engine

- Battery isolator switch
- Hydraulic fan drive
- Engine automatic stop

Power transmission

- Combined brake-inch pedal
- Connectible 100% lock differential in front and rear axle
- Mechanical parking brake
- Lubrication line for pendulum pins

Steering and work hydraulics

- Hydrostatic all-wheel steering with emergency steering properties
- Electronic pilot-operated joystick for lifting / lowering and filling / emptying the loader unit with rocker switch for selecting the travel direction as well as integrated 3rd control circuit (proportional control) and functional lighting integrated into the joystick
- Pressure release of 3rd control circuit

Kinematics

- Smart Attach (fully-hydraulic quickhitch facility)
- Parallel kinematics
- Load hook on the tilt rod
- Visual position display for bucket and fork

Documentation

- Operator's manual, service manual

Options

Operator's cab & Cabine

- Cab with sliding window in left-side door glass
- Panoramic cab
- Air-sprung operator's seat with lumbar support and heated seat (MSG95AL/722)
- Auxiliary heating
- Outside rear-view mirrors right + left heated
- Air-conditioning system
  - only in combination with:
    - Panoramic cab
- Document box
- Radio DAB+ ready (aerial, speaker)
- Radio system DAB+ reception (BT radio, antenna, speaker)
- 7" display + jog dial (incl. angle display, oil volume adjustment, automatic load stabilizer setting, tractive force regulation, joystick sensitivity)
- Bracket for cell phone + USB outlet
- Rear-view camera
  - only in combination with:
    - 7" display + jog dial (incl. angle display, oil volume adjustment, automatic load stabilizer setting, tractive force regulation, joystick sensitivity)

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Lighting

- LED rotating beacon
- 4x LED Basic work lights at the front (1000 Lumen)
- 2x LED Basic work lights side-mounted (1000 Lumen)

Approval, road traffic

- License plate bracket (incl. license plate illumination)
  - includes:
    - License plate illumination
    - License plate bracket, front and rear
- Sidelights for special buckets incl. side marker lights
- Data confirmation (ABE) for self-propelled work machine (standard)*
- EC Tractor CoC for Agricultural/Forestry Tractor Approval (LOF-ZGM-EG-Zulassung, 2003/37/EC – Class T1) no data confirmation
  - only in combination with:
    - License plate bracket (incl. license plate illumination)
    - Rear outlet 7-pole
    - An attachment coupling (not maneuvering hitch) must also be selected!
- EC Tractor CoC for Agricultural/Forestry Tractor Approval (LOF-ZGM-EG-Zulassung, 2003/37/EC – Class T1) + data confirmation – only for Germany
  - only in combination with:
    - License plate bracket (incl. license plate illumination)
    - Rear outlet 7-pole
    - An attachment coupling (not maneuvering hitch) must also be selected!

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

Drive system & steering

- Motor with increased power (Deutz TCD 3.6 74 kW / 100 hp) – exhaust emission Stage V
- Reversible fan motor
- Automatic engine stop (option)
- Ecospeed 40 km/h incl. Smart Driving
  - only in combination with:
    - Motor with increased power (Deutz TCD 3.6 74 kW / 100 hp) – exhaust emission Stage V
    - License plate bracket (incl. license plate illumination)
    - Load stabilizer (vibration damper)
- Ecospeed 40 km/h incl. Smart Driving (limited to 30 km/h)
  - only in combination with:
    - Motor with increased power (Deutz TCD 3.6 74 kW / 100 hp) – exhaust emission Stage V
    - License plate bracket (incl. license plate illumination)
    - Load stabilizer (vibration damper)
- Ecospeed 40 km/h incl. Smart Driving (limited to 20 km/h)
  - only in combination with:
    - Motor with increased power (Deutz TCD 3.6 74 kW / 100 hp) – exhaust emission Stage V
    - License plate bracket (incl. license plate illumination)
    - Load stabilizer (vibration damper)
- Ecospeed 30 km/h incl. Smart Driving
  - only in combination with:
    - License plate bracket (incl. license plate illumination)
    - Load stabilizer (vibration damper)
  - not with
    - Motor with increased power (Deutz TCD 3.6 74 kW / 100 hp) – exhaust emission Stage V
- Driving mode Power/Eco/Road/Pedal mode (incl. low-speed control & manual throttle)
- Steering type Smart Steering
  - only in combination with:
    - 7” display + jog dial (incl. angle display, oil volume adjustment, automatic load stabilizer setting, tractive force regulation, joystick sensitivity)

Tires

Not possible with EC Tractor CoC for Agricultural/Forestry Tractor Approval (LOF-ZGM-EG-Zulassung, 2003/37/EC – Class T1)

- Mitas 405/70 R24 EM 01 – multi-purpose profile, direction-independent

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Tires for EC tractor

Required for EC Tractor CoC for Agricultural/Forestry Tractor Approval (LOF-ZGM-EG-Zulassung, 2003/37/EC – Class T1)

- Mitas 16/70-20 MPT-04 ET0 – construction machine profile (standard)
- Michelin 400/70R20 BIBLOAD – multi-purpose profile
- Michelin 400/70 R24 XMCL ET0
- Nokian 420/65 R24 TRI 2 – municipal profile (caution: no digging depth / reduced steering angle)
- Firestone 400/70 R20 Duraforce
- Trelleborg 400/70R20 TH500 ET0
- Trelleborg 400/70R20 TH400 ET0
- Trelleborg 400/70R24 TH400 ET0

Loading system & Quick coupler system

- Load stabilizer (vibration damper)
- Floating position
- Smart Attach (fully hydraulic quick coupler system); Kramer System HV/WL-C (standard)
- Hydraulic quick coupler system, EURO System (technical data and available attachments may differ)

Hydraulics

- Pre-heating package
  - includes:
    - Hydraulic oil pre-heating (230 V)
    - Coolant pre-heating (230V)
    - Fuel pre-heating (230 V)
- Filling of the hydraulic system with environmentally friendly and biodegradable hydraulic oil

Hydraulics - front area

- Front return line, unpressurized return + leak oil
- High flow; incl. 1 double-acting control circuit for positioning movements with attachment, incl. leak oil line and unpressurized return
  - Recommended:
    - Front outlet 7-pole (2 switch positions)
    - Driving mode Power/Eco/Road/Pedal mode (incl. low-speed control & manual throttle)
- Automatic bucket return
  - only in combination with:
    - 7” display + jog dial (incl. angle display, oil volume adjustment, automatic load stabilizer setting, tractive force regulation, joystick sensitivity)
- Shake function (vibratory function of the tipping cylinder)
  - only in combination with:
    - Automatic bucket return
    - 7” display + jog dial (incl. angle display, oil volume adjustment, automatic load stabilizer setting, tractive force regulation, joystick sensitivity)
- 4th control circuit for front add-on equipment with 2nd hydraulic function, proportional
- Tipping cylinder and lowering throttle for work platform preparation (only ex-factory, not retrofittable)
  - only in combination with:
    - Hose burst valve for lifting and tilting cylinders

Hydraulics - rear area

- Auxiliary control circuit for tipper (tipper connection)
- Auxiliary control circuit for tipper (for rear attachments, single-acting) including unpressurized return

Electrical system

- Rear outlet 7-pole
- Rear outlet 13-pole
- Front outlet 7-pole (2 switch positions)
- Rear outlet (DIN signal socket)
- Front outlet (30A)

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Safety options

- Hose burst valve for lifting and tilting cylinders (standard)
- Reverse alarm (acoustic)
- Red/white warning stripes (in accordance with DIN 30710)
- EquipCare + Dual ID
  - not with:
    - Immobilizer system, integrated in the ignition switch key
- Immobilizer system, integrated in the ignition switch key
  - not with:
    - EquipCare + Dual ID
- Fire extinguisher (2 kg)
- Seatbelt monitoring with seatbelt alarm
- Orange safety belt (standard)
  - not with:
    - Air-sprung operator's seat with lumbar support and heated seat (MSG95AL/722)

Paint

- Single-color RAL custom paint finish (gray parts not included)**
- Vehicle operation with corrosive agents (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

- (Fully automatic) central lubrication unit
  - not with:
    - Vehicle operation with corrosive agents (salt and fertilizer use)
- Central lubrication system (corrosive agents)
  - recommended with:
    - Vehicle operation with corrosive agents (salt and fertilizer use)
- Central lubrication point

Ball hitches & Brake systems

- Ball hitch attachment coupling (K50) – fixed to frame
- Automatic attachment coupling 38 mm – fixed to frame
- Mechanical attachment coupling 32 mm – fixed to frame
- Bearing block for attachment couplings height-adjustable (insert for attachment coupling required)
- Automatic 38 mm attachment coupling insert for trailer mount height-adjustable
- K50 ball hitch insert for trailer mount height-adjustable, only suitable for height-adjustable drawbars
- K50 ball hitch insert for trailer mount height-adjustable extended
- Mechanical attachment coupling insert – 32 mm for trailer mount height-adjustable
- Pneumatic trailer brake valve
  - only in combination with:
    - Ecospeed 40 km/h incl. Smart Driving
  - or
    - Ecospeed 40 km/h incl. Smart Driving (limited to 30 km/h)
  - or
    - Ecospeed 40 km/h incl. Smart Driving (limited to 20 km/h)
- Hydraulic trailer brake valve
  - only in combination with:
    - Ecospeed 40 km/h incl. Smart Driving
  - or:
    - Ecospeed 40 km/h incl. Smart Driving (limited to 30 km/h)
  - or:
    - Ecospeed 40 km/h incl. Smart Driving (limited to 20 km/h)

A front ballast weight is required to operate a trailer with the corresponding bearing load.

Extended warranties

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

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