

3080

Wheel loader



WEIDEMANN
designed for work



3080 Technical specifications

Engine data

Manufacturer	Deutz
Engine type	TCD 2.9 L4 S5
Cylinders	4
Engine performance	55.4 (75) kW (hp)
at rpm (max.)	2300 rpm
Cubic capacity	2900 cm ³
Cooling system	Water / charge air
Emissions standard level	V
Exhaust after treatment	DPF/DOC

Electrical system

Operating voltage	12 V
Alternator	95 A
Weights	
Operating weight (standard)	5100 kg
Tipping load with bucket - machine straight	3213 kg
Tipping load with bucket - machine articulated	2714 kg
Tipping load with pallet fork - machine straight	2715 kg
Tipping load with pallet fork - machine articulated	2304 kg
Vehicle data	
Axle (optional)	PA 1400 (PA 1422)
Cab	Cabin
Ground speed (optional)	0 - 20 (30) km/h
Speed stages	2
Fuel tank capacity	82 l
Hydraulic oil tank capacity	66 l
Hydraulic system	
External services - Operating pressure	450 bar
Steering hydraulics - Oil flow	57.5 (73-116) l/min
Steering hydraulics - Operating pressure	230 bar
Drive	
Type of drive	Hydrostatic
Traction drive	Universal joint shaft
Noise values	
Average sound power level L _{WA}	100.3 dB(A)
Guaranteed sound power level L _{WA}	101 dB(A)
Specified sound pressure level L _{pA}	78 dB(A)

Tipping load calculation according to ISO 14397

Vibrations (weighted average effective value)

Hand-arm vibrations (HAV): The hand-arm vibrations are no more than 2.5 m/s²

Whole body vibrations: This machine is equipped with a driver's seat that meets the requirements of EN ISO 7096:2000.

When the loader is properly used, the whole body vibrations vary from below 0.5 m/s² up to a short-term maximum value.

It is recommended to use the values specified in the table when calculating the vibration values according to ISO/TR 25398:2006. At the same time the actual use conditions have to be taken into consideration.

Telescopic loaders, like wheel loaders, are to be classified by operating weight.

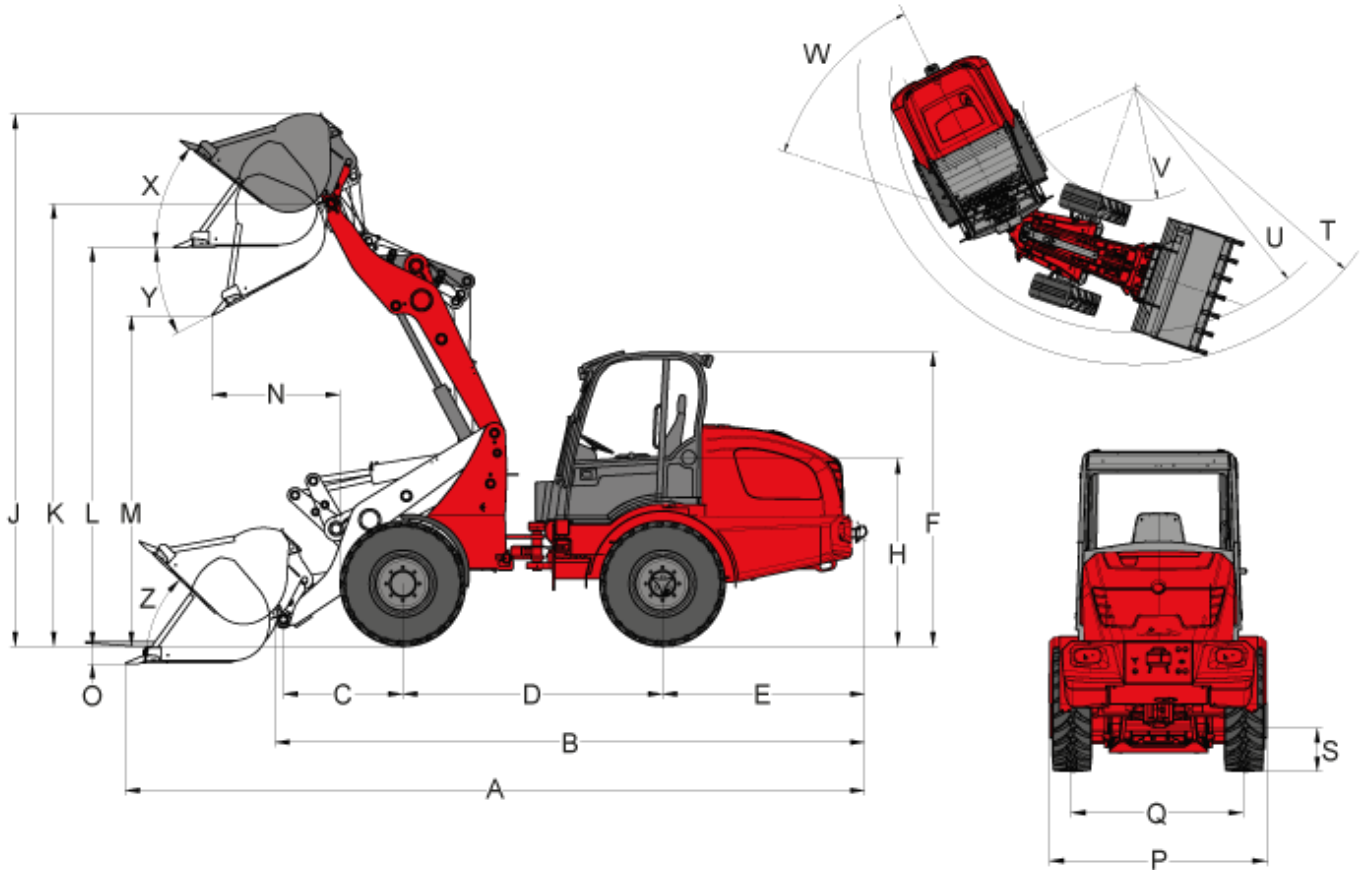
	Average value	Standard deviation (s)
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Type of loader	Typical operating conditions	$1.4 \cdot a_{w,eqx}$ [m/s ²]	$1.4 \cdot a_{w,eqy}$ [m/s ²]	$a_{w,eqz}$ [m/s ²]	$1.4 \cdot s_x$ [m/s ²]	$1.4 \cdot s_y$ [m/s ²]	s_z [m/s ²]
Compact wheel loader (operating weight < 4,500 kg)	Load & carry (load and transport work)	0.94	0.86	0.65	0.27	0.29	0.13
Wheel loader (operating weight > 4,500 kg)	Load & carry (load and transport work)	0.84	0.81	0.52	0.23	0.2	0.14
	Application in extraction (harsh application conditions)	1.27	0.97	0.81	0.47	0.31	0.47
	Transfer drive	0.76	0.91	0.49	0.33	0.35	0.17
	V-operation	0.99	0.84	0.54	0.29	0.32	0.14

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3080 Dimensions



A	Total length	5,675 mm
B	Total length (without bucket)	4,649 mm
C	Axle middle to bucket pivot pin	1025 mm
D	Wheelbase	2,008 mm
E	Rear overhang	1,531 mm
F	Height to top of cabin - low-profile	2,454 mm
F	Height to top of cabin - high-profile	2,631 mm
H	Seat top height	1,518 mm
J	Total working height	4,106 mm
K	Height of bucket pivot (max.)	3,317 mm
L	Load-over height	3,061 mm
M	Dumping height	2,503 mm
N	Operating distance for M	953 mm
O	Digging depth	82 mm
P	Total width	1,580 mm
Q	Track width	1,211 mm
S	Ground clearance	323 mm

T	Maximum radius external	3,943 mm
U	Radius at the outer edge	3,461 mm
V	Inside turning radius	1,685 mm
W	Inclination angle	42 °
X	Rollback angle at max. lifting height	51 °
Y	Dumping angle (max.)	32 °
Z	Rollback angle (on the ground)	49 °

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3080 Standard components

Motor

- Deutz TCD 2.9 L4 S5 (55.4 kW / 75 hp), Stage V

Drive system

- PA1400 planetary axle
- Hydrostatic all-wheel drive, travel direction can be selected via joystick
- Service brake: Hydrostatic drive system acting on all 4 wheels (wear-free)
- Central service and parking brake in the drive train acting on all 4 wheels
- 100% differential lock, electric-hydraulically connectable on front and rear axle
- Tires 12.5 / 80 - 18 AS ET75

Steering system

- Hydraulic articulated pendulum steering, 12° oscillating angle

Hydraulics

- 3rd control circuit in front electrically proportional in parallel via joystick
- Hydraulic oil cooler
- Floating position for lift cylinder

Driver's Cabin

- Comfort cabin with heater and fan, laterally tiltable, roll-over protective structure / FOPS-tested ("low" cabin height 2454 mm)
- Comfort seat with safety belt, fully suspended, weight, back and horizontal adjustment
- Hydraulic pilot operated joystick with direction control switch and integrated touch button for differential lock
- Adjustable steering wheel

Other

- Working lights (2 front, 2 rear)
- Operating hour meter
- Battery circuit breaker
- Fuel display
- Hydraulic quick-change system for attachments
- Bucket status display
- Self-recovery coupling
- Lighting display according to Road Traffic Regulations

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3080 Options

Motor

- Engine pre-heater + hydraulic oil pre-heater 230 V

Drive system

- Axle PA1422
- Hand inching (creep speed controller)
- Speed increase to 30 km/h
- Load arm dampening

Driver's Cabin

- Comfort cabin with heater and fan, laterally tiltable, roll-over protective structure / FOPS-tested ("high" cabin height 2631 mm)
- Air-cushioned comfort seat (fabric)
- Heated seat
- Air-conditioning system
- Cabin plug receptacle 230 V
- Protective grating for windscreen
- Storage box with bottle holder

Lighting

- MEGA working lights (2 front, 2 rear)
- LED working lights (2 front, 2 rear)
- Rotating beacon

Hydraulics

- Unpressurised reverse travel (front / rear)
- Work hydraulics of large pump (83 l/min)
- High flow single-acting performance hydraulics (115 l/min), including unpressurised reverse travel and additional hydraulic oil cooler
- 3rd control circuit, electrically, proportionally, serial
- 4th additional control circuit electrically proportional in parallel
- Additional hydraulic oil cooler
- Faster rapid action couplings (machine and attachment-side)
- Dual-acting hydraulic connection in rear (51 l/min) proportional (two couplings) via reversing valve
- Dual-acting hydraulic connection in rear (51 l/min) (two couplings), including separate steering valve
- 2x hydraulic connection in rear (51 l/min) dual acting (four couplings), including separate steering valve

Electrical connections

- Front plug receptacle, 7-pole for lighting front attachments
- Front plug receptacle, 3-pole (dual function)
- Plug receptacle for rear attachments, 7-pin
- Triple-pole rear plug receptacle

Other

- Radio
- Reversing warning device (acoustic)
- Lowering brake valve
- Combination case with warning triangle and first-aid kit

- Tool kit
- Tool box
- Fire extinguisher 2kg
- Fully automatic central lubrication unit
- Hand lever grease gun
- Custommade paint finish
- Automatic trailer coupling
- Approval as self-propelled work machine with AHK*
- Registration plate mounting
- TÜ expert's report (addendum in vehicle documentation)

* Trailer coupling

Please note: that product availability can vary from country to country. It is possible that information / products may not be available in your country. More detailed information on engine power can be found in the operator's manual; the stated power may vary due to specific operating conditions. Subject to alterations and errors excepted. Applicable also to illustrations.
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