

# 2080

## Wheel loader



**WEIDEMANN**  
*designed for work*



### 2080 Technical specifications

#### Engine data Standard

Manufacturer	Perkins
Engine type	404D-22
Cylinders	4
Engine performance (max.)	36.3 (50) kW (hp)
at rpm (max.)	2800 rpm
Cubic capacity	2216 cm <sup>3</sup>
Cooling system	Water
Abgasnormstufe	IIIA
Abgasnachbehandlung	nein

#### Engine data Optional

Manufacturer	Perkins
Engine type	404F-22T
Cylinders	4
Engine performance (max.)	44.7 (60) kW (hp)
at rpm (max.)	2800 rpm
Cubic capacity	2216 cm <sup>3</sup>
Cooling system	Water
Abgasnormstufe	V
Abgasnachbehandlung	DPF/DOC
<b>Engine data Optional</b>	
Manufacturer	Deutz
Engine type	TCD 2.9 L4
Engine performance (max.)	55.4 (75) kW (hp)
at rpm (max.)	2300 rpm
Cubic capacity	2900 cm <sup>3</sup>
Cooling system	Water/charge air
<b>Electrical system</b>	
Operating voltage	12 V
Battery	95 Ah
Alternator	95 A
<b>Weights</b>	
Operating weight (standard)	4200 / 4300* kg
Tipping load with bucket - machine straight	3020 / 3320* kg
Tipping load with bucket - machine articulated	2.494/3.113* kg
Tipping load with pallet fork - machine straight	2511 / 2726* kg
Tipping load with pallet fork - machine articulated	2.173/2.662* kg
<b>Vehicle data</b>	
Axle	PA 1200
Cab	Cab
Ground speed (optional)	0 - 20 (28) km/h
Speed stages	2
Fuel tank capacity	65 l
Hydraulic oil tank capacity	50 l
<b>Hydraulic system</b>	
External services - Operating pressure	450 bar
Steering hydraulics - Oil flow (optional)	56 (63-116) l/min
Steering hydraulics - Operating pressure	210 bar
<b>Drive</b>	
Type of drive	Hydrostatic
Traction drive	Universal joint shaft
<b>Noise values</b>	

Average sound power level L <sub>WA</sub>	99.3 dB(A)
Guaranteed sound power level L <sub>WA</sub>	101 dB(A)
Specified sound pressure level L <sub>pA</sub>	78 dB(A)

\* Values with optional Deutz engine  
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/s<sup>2</sup>

**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/s<sup>2</sup> up to a short-term maximum value.

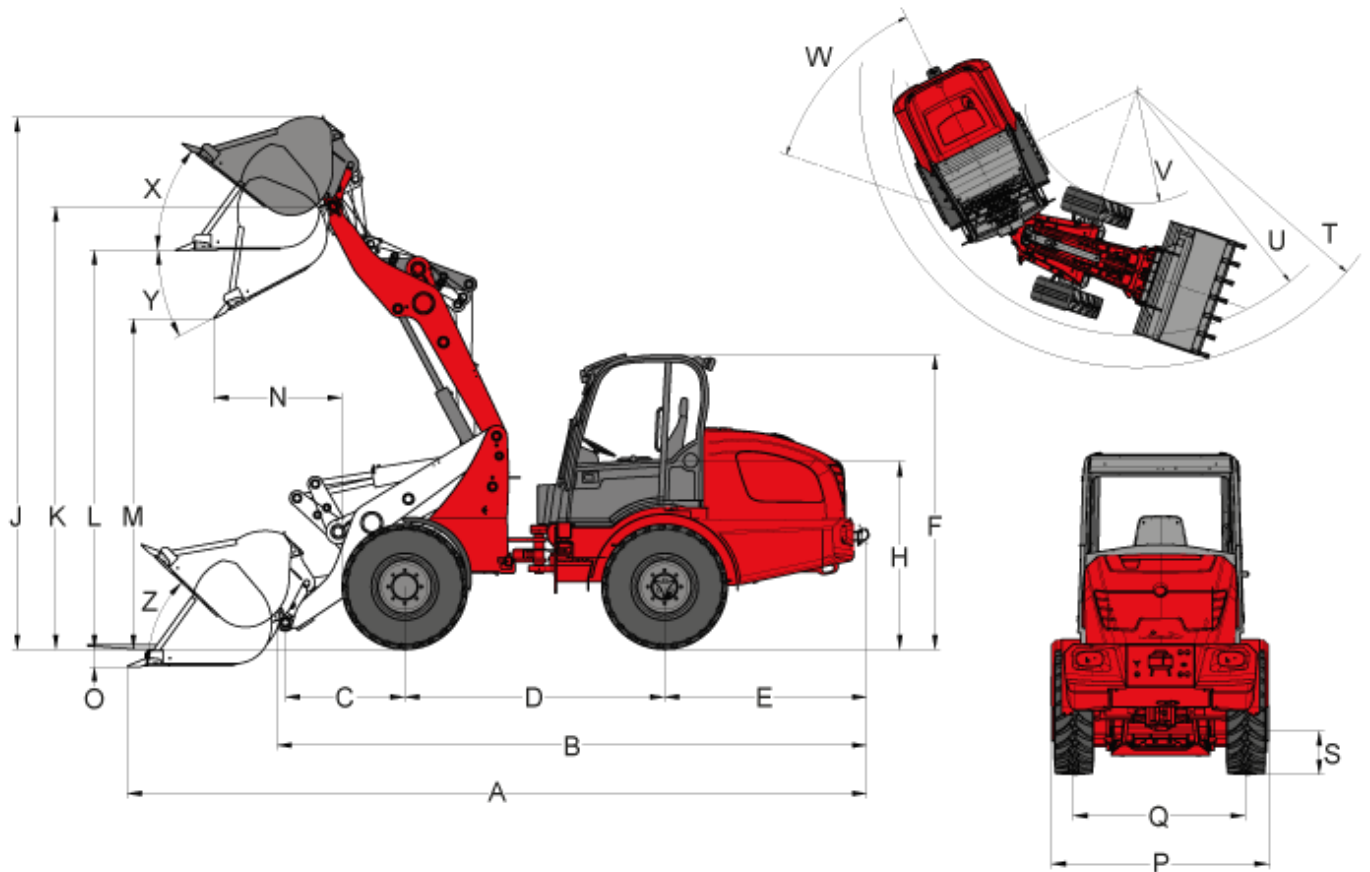
It is recommended to use the values specified in the table when calculating the vibration values according to ISO/TR 25398:2006. At the same time the actual use conditions have to be taken into consideration.

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

Type of loader	Typical operating conditions	Average value			Standard deviation (s)		
		1.4*a <sub>w,eqx</sub>	1.4*a <sub>w,eqy</sub>	a <sub>w,eqz</sub>	1.4*s <sub>x</sub>	1.4*s <sub>y</sub>	s <sub>z</sub>
		[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]
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

2080  
Wheel loader

2080 Dimensions



A	Total length	5,037 mm
B	Total length (without bucket)	4,281 mm
C	Axle middle to bucket pivot pin	675 mm
D	Wheelbase	2,045 mm
E	Rear overhang	1,516 mm
F	Height to top of cabin - low-profile	2,359 mm
F	Height to top of cabin - high-profile	2,535 mm
H	Seat top height	1,429 mm
J	Total working height	3,828 mm
K	Height of bucket pivot (max.)	3,239 mm
L	Load-over height	2,950 mm
M	Dumping height	2,509 mm
N	Operating distance for M	177 mm
O	Digging depth	62 mm
P	Total width	1,410 mm
Q	Track width	1,113 mm

S	Ground clearance	270 mm
T	Maximum radius external	3,523 mm
U	Radius at the outer edge	3,316 mm
V	Inside turning radius	1,727 mm
W	Inclination angle	45 °
X	Rollback angle at max. lifting height	52 °
Y	Dumping angle (max.)	39 °
Z	Rollback angle (on the ground)	45 °

## 2080

Wheel loader

### 2080 Standard components

#### Motor

- Perkins 404 D-22 (36.3 kW / 50 hp) - Exhaust emission level IIIA

#### Drive system

- PA1200 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 11.5 / 80 - 15.3 AS ET40

#### 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 2359 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
- Toolbox in the vehicle rear
- Bucket status display
- Self-recovery coupling
- Lighting display according to Road Traffic Regulations

## 2080

Wheel loader

### 2080 Options

#### Motor

- Perkins 404F-22T (44.7 kW / 60 hp) - Exhaust emission level IIIB
- Deutz TCD 2.9 L4 (55.4 kW / 75 hp) - Exhaust emission level IIIB
- Engine pre-heater + hydraulic oil pre-heater 230 V

#### Drive system

- Hand inching (creep speed controller)
- Speed increase to 28 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 2535 mm)
- Air-cushioned comfort seat (fabric)
- Heated seat
- Air-conditioning system
- Cabin plug receptacle 230 V

#### 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 (63 l/min)
- Work hydraulics of large pump (70 l/min)
- Work hydraulics of large pump (74 l/min)
- High flow single-acting performance hydraulics (100 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
- Dual-acting hydraulic connection in rear (30 or 51 l/min) proportional (two couplings) via reversing valve
- Dual-acting hydraulic connection in rear (30 or 51 l/min) (two couplings), including separate steering valve
- 2x dual-acting hydraulic connection in rear (30 or 51 l/min) (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 plug receptacle in rear

#### Other

- Radio
- Reversing warning device (acoustic)
- Lowering brake valve

- Combination case with warning triangle and first-aid kit
- Tool kit
- Fire extinguisher 2kg
- Counterweight floor plate
- Automatic trailer coupling
- Approval as self-propelled work machine with AHK\*
- Official approval for road use
- Fully automatic central lubrication unit
- Custommade paint finish
- Hand lever grease gun
- 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.  
Copyright © 2019 Weidemann GmbH.