

5080T

Telescopic wheel loader



WEIDEMANN
designed for work



5080T Technical specifications

Engine data Standard

| | |
|--------------------------|----------------------|
| Manufacturer | Perkins |
| Engine type | 904J-E36TA |
| Cylinders | 4 |
| Engine performance | 100 (136) kW (hp) |
| at rpm (max.) | 2200 rpm |
| Cubic capacity | 3621 cm ³ |
| Cooling system | Water |
| Emissions standard level | V |
| Exhaust after treatment | DOC/DPF/SCR |

Electrical system

| | |
|---|-----------------------|
| Operating voltage | 12 V |
| Battery | 135 Ah |
| Alternator | 85 A |
| Weights | |
| Operating weight (standard) | 7200 kg |
| Tipping load with bucket - machine straight | 4365 (2561*) kg |
| Tipping load with bucket - machine articulated | 3659 (2133*) kg |
| Tipping load with pallet fork - machine straight | 4103 (2560*) kg |
| Tipping load with pallet fork - machine articulated | 3448 (2128*) kg |
| Vehicle data | |
| Axle | PA 1422/2 |
| Cab | Cabin |
| Ground speed (optional) | 0- 20 (30, 40) km/h |
| Speed stages | 2 |
| Fuel tank capacity | 105 l |
| Hydraulic oil tank capacity | 95 l |
| Hydraulic system | |
| Steering hydraulics - Oil flow (optional) | 100 (115-150) l/min |
| Steering hydraulics - Operating pressure | 235 bar |
| Drive | |
| Type of drive | Hydrostatic |
| Traction drive | Universal joint shaft |
| Noise values | |
| Average sound power level L _{WA} | 100 dB(A) |
| Guaranteed sound power level L _{WA} | 103 dB(A) |
| Specified sound pressure level L _{pA} | 75 dB(A) |

*Tipping load values when extended

Tipping load calculation according to ISO 14397 (horizontal mast)

DPF = Diesel particulate filter

DOC = Diesel oxidation catalytic converter

SCR = Selective catalytic reduction

Vibrations (weighted average effective value)

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

Whole-body vibrations: This machine is equipped with a operator'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.

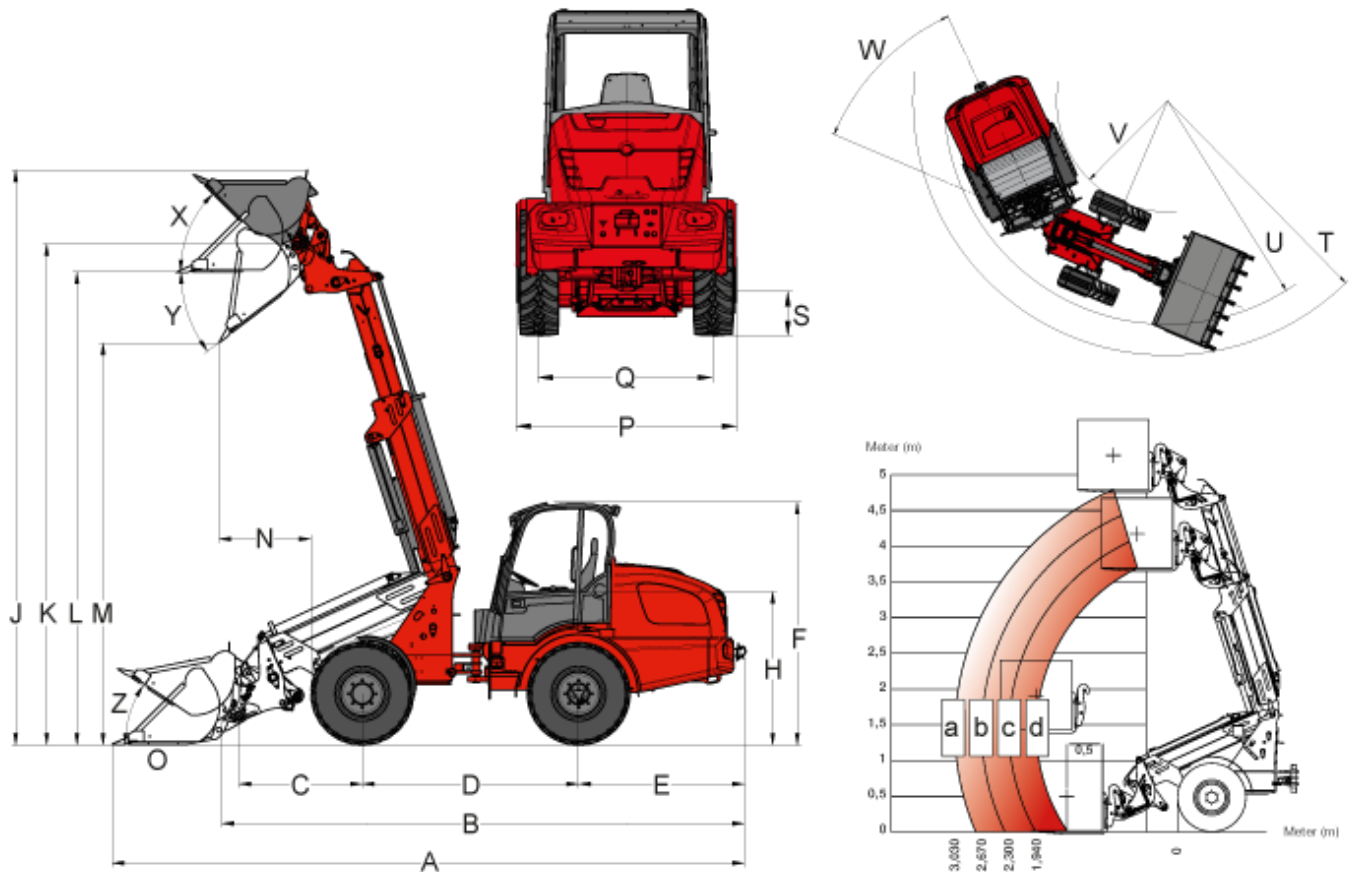
Telehandlers, like wheel loaders, are to be classified by operating weight.

| Type of loader | Typical operating conditions | Mean value | | | Standard deviation (s) | | |
|--|--|--|--|------------------------------------|--|--|------------------------------|
| | | $1.4 \cdot a_{w,eqx}$ [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 |
| | Delivery 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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Telescopic wheel loader

5080T Dimensions



| | | |
|---|---------------------------------|----------|
| A | Total length | 6,396 mm |
| B | Total length (without bucket) | 5,200 mm |
| C | Axle middle to bucket pivot pin | 1245 mm |
| D | Wheelbase | 2,189 mm |
| E | Rear overhang | 1,676 mm |
| F | Height to top of cabin | 2,694 mm |
| H | Seat top height | 1,570 mm |
| J | Total working height | 5,839 mm |
| K | Height of bucket pivot (max.) | 5,091 mm |
| L | Load-over height | 4,805 mm |
| M | Dumping height | 4,086 mm |
| N | Operating distance for M | 916 mm |
| P | Total width | 1,990 mm |
| Q | Track width | 1,422 mm |
| S | Ground clearance | 375 mm |
| T | Maximum radius external | 4,473 mm |
| U | Radius at the outer edge | 3,928 mm |

| | | |
|---|---------------------------------------|----------|
| V | Inside turning radius | 1,629 mm |
| W | Inclination angle | 42 ° |
| X | Rollback angle at max. lifting height | 45 ° |
| Y | Dumping angle (max.) | 33 ° |
| Z | Rollback angle (on the ground) | 41 ° |

Load capacity diagram

| | |
|---|---------|
| a | 1277 kg |
| b | 1426 kg |
| c | 1794 kg |
| d | 2069 kg |

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Telescopic wheel loader

5080T Standard components

Engine

- Perkins 904J-E36TA (100 kW / 136 HP), Stage V

Drive system

- Planetary axle PA1422/2
- Hydrostatic 4 wheel drive, travel direction can be selected via joystick
- Service brake: Disc brake (combined with parking brake)
- 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 550 / 45 - 22.5 AS ETO

Steering system

- Hydraulic articulated pendulum steering, 12° oscillating angle

Hydraulics

- 3rd control circuit in front electrically proportional in parallel via joystick, including double notch
- Hydraulic oil cooler
- Depressurised front reverse travel
- Floating position for lift cylinder
- Oil volume adjustment via jog dial control element

Operator's cab

- Comfort cabin with heater and ventilation, ROPS / FOPS tested
- Laterally tiltable operator's cab
- Comfort seat with safety belt, fully suspended, weight, back and horizontal adjustment
- Hydraulic pilot operated joystick with direction control switch, integrated touch button for differential lock and telescoping function
- Adjustable steering wheel (tilt), armrest on right

Kinematics

- Telescopic arm

Other

- Work lights (2 front, 2 rear)
- Lighting equipment according to Road Traffic Regulations
- Operating hour meter
- Battery isolator switch
- Fuel display
- Hydraulic quickhitch system for attachments
- Plug receptacle in front, triple-pole, dual function
- Lowering brake valve (hose burst valves for lift and tipping cylinders)
- Water filling, front tyres

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5080T Options

Engine

- Manual throttle
- Engine pre-heater (coolant), hydraulic oil pre-heater 230 V

Operator's cab

- Air-conditioning system
- Air-suspended comfort seat
- Heated seat
- Radio
- Cabin plug receptacle 230 V
- Protective grating for front window
- Storage box with bottle holder (left next to the operator's seat)

Lighting

- LED work lights (2 front, 2 rear)
- Rotating beacon

Drive system

- Speed increase to 30 km/h
- Speed increase to 40 km/h
- Hand inching (creep speed controller)

Hydraulics

- 3rd flow sharing control circuit (100 l/min)
- 3rd flow sharing control circuit (115 l/min)
- 3rd flow sharing control circuit, load-sensing (150 l/min)
- Reversing valve of 3rd control circuit, front
- Faster quick coupler (machine or attachment side)
- Unpressurised reverse travel (rear)
- Hydraulic connection in rear is dual-acting via reversing valve (l/min like 3rd control circuit in front)
- Dual-acting hydraulic connection in rear (63 l/min) (two couplings), including separate control valve
- 2x hydraulic connection in rear (63 l/min) dual acting (four couplings), including separate control valve

Electrical connections

- Plug receptacle in front, triple-pole (dual function)
- Plug receptacle for rear attachments, triple-pole
- Plug receptacle for rear attachments, 7-pin

Other

- Reversing alarm
- Combination case with warning triangle and first-aid kit
- Tool box
- Set of tools
- Fully automatic central lubrication unit
- Custommade paint finish
- Hand lever grease gun
- Lifting arm damping
- Drive interlock (operation via coded ignition switch key)

- Cardan shaft protection
- Bio-hydraulic oil (HLP Synt46)
- Fire extinguisher 2 kg
- Isolator switch 2 circuits (disconnection of on-board voltage supply and generator)
- Number plate bracket
- TÜV expert's report for road travel (addendum in vehicle documentation)
- Automatic trailer coupling
- "Hitch" trailer coupling
- Approval as self-propelled work machine with ball hitch

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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