

**WEIDEMANN***designed for work*

## 4080 Wheel loaders

### Technical Data

#### ■ Standard engine data

Engine manufacturer	Perkins	drive unit	universal joint shaft
Motor type	904J-E36TA	Speed levels	2
Cylinder	4	Axle	PA 1422
Drive output	74.4 kW	Travel speed Standard	0-20 km/h
Drive output	101.2 PS	Travel speed Option 1	0-30 km/h
at max. rpm	2,200 U/min	Travel speed Option 2	0-40 km/h
Cylinder capacity	3,621 cm <sup>3</sup>	Operating brake	Disc brake (combined with parking brake)
Type of coolant	Water	Parking brake	Service and parking brake in the drive train acts on all 4 wheels
Exhaust standard level	V	Differential lock	100 % front axle + rear axle
Exhaust aftertreatment	DOC/DPF/SCR		

#### ■ Electrical system

Operating voltage	12 V
Battery	135 Ah
Alternator	85 A

#### ■ Weights

Operating weight	5,900 kg
Tipping load with bucket – machine straight, loading frame horizontal	3,674 kg
Tipping load with bucket – machine pivoted, loading frame horizontal	3,031 kg
Tipping load with pallet fork – machine straight, loading frame horizontal	3,344 kg
Tipping load with pallet fork – machine pivoted, loading frame horizontal	2,791 kg

#### ■ Driver's cab

Driver's cab	Cab
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#### ■ Filling levels

Tank capacity for fuel	105 l
Tank capacity for hydraulic oil	95 l
Tank capacity for urea solution	19 l

#### ■ Drive system

Type of drive	Hydrostatic
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#### ■ Hydraulic system

Drive hydraulics working pressure (max.)	455 bar
Work hydraulics discharge volume (max.)	100 (115-150) l/min
Work hydraulics working pressure (max.)	210 bar

#### ■ Kinematics

Kinematics type	Z
Lifting cylinder	2
Tipping cylinder	1

#### ■ Quick change system

Steering type	hydraulically activated articulated pendulum steering
Steering cylinder	1
Oscillating angle	±12 degree

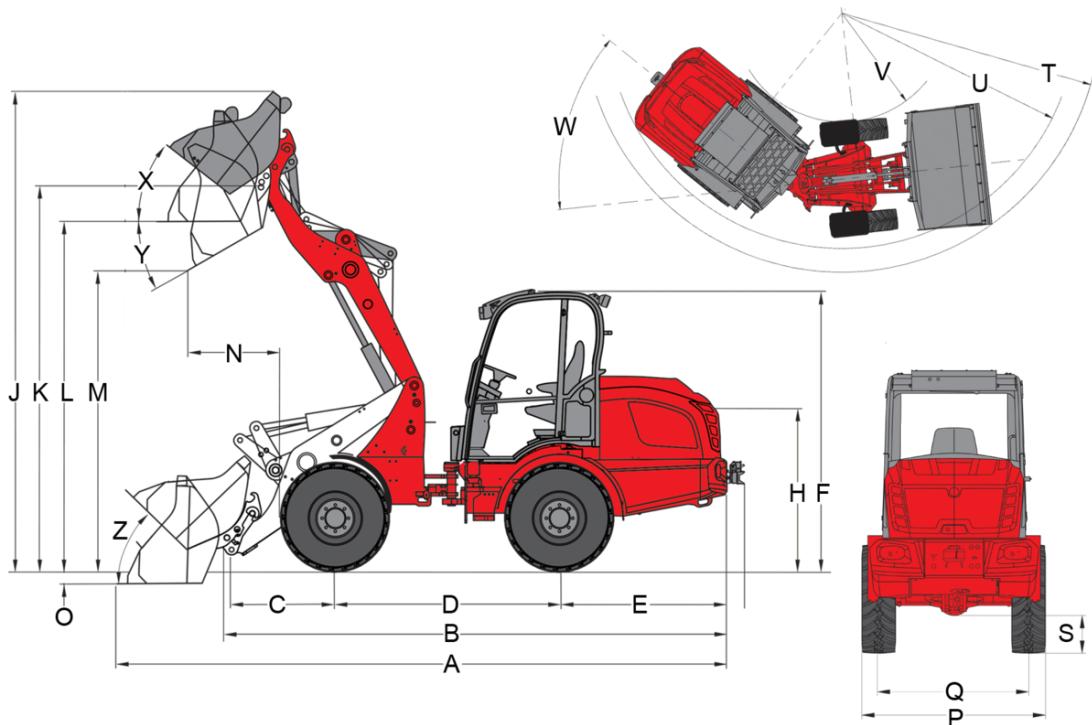
#### ■ Noise characteristic values

Average sound power level LwA (cabin)	101.6 dB(A)
Guaranteed sound power level LwA (cabin)	103 dB(A)
Specified sound pressure level LpA (cabin)	74 dB(A)

#### ■ Other information

FSD = operator's canopy
DPF = diesel particulate filter
DOC = diesel oxidation catalyst
SCR = selective catalytic reduction
Tipping load calculation pursuant to ISO 14397

## Dimensions



### Z-kinematics (standard)

Standard components	12.5-20 MPT ETO
<b>A</b> Total length	5,800 mm
<b>B</b> Total length without bucket	4,790 mm
<b>C</b> Bucket pivot point (to center of axle)	990 mm
<b>D</b> Wheel base	2,150 mm
<b>E</b> Rear overhang	1,580 mm
<b>F</b> Height with cab	2,680 mm
<b>H</b> Seat height	1,560 mm
<b>J</b> Total working height	4,560 mm
<b>K</b> Bucket pivot point (max. lift height)	3,670 mm
<b>L</b> Load-over height	3,330 mm
<b>M</b> Dumping height	2,860 mm
<b>N</b> Reach (at M)	870 mm
<b>O</b> Digging depth	110 mm
<b>P</b> Total width	1,827 mm
<b>Q</b> Track width	1,422 mm
<b>S</b> Ground clearance	361 mm
<b>T</b> Maximum radius	4,055 mm
<b>U</b> Radius on the outer edge	3,683 mm
<b>V</b> Inner radius	1,702 mm
<b>W</b> Articulation angle	45 °
<b>X</b> Rollback angle at max. lift height	38 °
<b>Y</b> Dumping angle	28 °
<b>Z</b> Rollback angle on ground	46 °

## Standard components

### Engine

- Perkins 904J-E36TA ({74,4 kW / 101,2 PS}{74,4 kW / 99.8 HP})

### Tires

- 12.5 - 20 BKT MP567 MPT ET0, MPT profile, width {1750 mm}{68.9 in}

### Steering system

- Hydraulic articulated pendulum steering, pendulum angle  $\pm 12^\circ$
- Steering cylinder: 1

### Drive system & Axles

- Axle: PA1422 planetary axle
- Drive: Hydrostatic all-wheel drive
- Differential lock: 100%, electrically-hydraulically engageable on front and rear axles
- Speed: {20 km/h}{12.4 mph}
- Driving speeds: 2 | {7 km/h / 20 km/h}{4.4 mph / 12.4 mph}
- Service brake: Hydrostatic drive acting on all 4 wheels (wear-free)
- Parking brake: Central service and parking brake in the drive train acting on all 4 wheels

### Hydraulics

- Hydraulically piloted joystick with directional control switch and integrated button for differential lock
- 3rd Front control circuit electrically proportional parallel via joystick, incl. double detent
- Oil volume adjustment via jog dial
- Hydraulic oil cooler

### Operator's cab

- Comfort cab with heating and ventilation, laterally tiltable, ROPS / FOPS tested
- Comfort seat with seat belt full suspension, weight, back and longitudinal adjustment
- Generous space
- Ergonomically generous entry
- Adjustable steering wheel (tilt)

### Other

- Bucket level indicator
- Self-recovery coupling

### Loading system

- Loading system LS935
- Quick-change device (Weidemann) hydraulic
- Kinematics: Z
- Lift cylinder: 2
- Tilt cylinder: 1
- Float position for lift cylinder

### EquipCare (telematics)

- EquipCare 36 months (incl. App & Manager)

### Lighting

- LED Basic work lights (1000 lm) on the roof, 2 at the front, 2 at the rear
- Lighting system in accordance with StVZO

## Options

### Operator's cab

- Storage box with bottle holder (left next to the operator's seat)
- Radio DAB+-ready (aerial, speaker)
- Radio DAB+ complete
- Air-conditioning system (Machine height + {30 mm}{1.18 in})
- Front window protective grating
- Cabin outlet 230 V (connection power max. 2000 W), (Only works with connected engine pre-heating on the 230 V grid)

The illustrations, equipment and data shown may deviate from the current delivery program of your country. Optional equipment subject to additional charge may be shown. Subject to changes.

## **Operator's seat**

- Fabric seat; heated seats (MSG 85)
- Fabric seat; air suspension (MSG 95AL/722)
- Fabric seat; air suspension; heated seats (MSG 95AL/732)

## **Lighting**

- LED Performance work lights (2000 lm) on the roof, 2 at the front, 2 at the rear
- Rotating beacon (yellow) (National regulations must be observed!)

## **StVZO – equipment**

- Individual operating permit > {25 km/h}{15.5 mph}
- Individual operating permit > {25 km/h}{15.5 mph}
- Registration plate mounting

## **Engine**

- Manual throttle
- Engine pre-heating (coolant) + hydraulic oil pre-heating 230 V

## **Drive system & Axles**

- {30 km/h}{18.6 mph} (speed increase)
- {40 km/h}{24.9 mph} (speed increase)
- Proportional speed limiter (slow speed device)
- Mudflap front (mounted on the fender)

## **Tires**

- 400/70-20 BKT AS 504 ET0, AS tread, width {1840 mm}{72.44 in}
- 400/70-20 ET-20 BKT AS 504 ET-50, AS tread, width {1930 mm}{75.98 in}
- 500/45-20 Alliance 331 ET0, AS profile, width {1920 mm}{75.59 in}
- 550/45-22.5 Alliance 331 ET0, AS profile, width {1990 mm}{78.35 in}
- 550/45-22.5 Alliance 331 ET-50, AS profile, width {2080 mm}{81.9 in}
- 600/40-22.5 BKT TR 678 ET-50, AS profile, width {2080 mm}{81.9 in}
- 405/70 R 18 EM Alliance 608 ET0, EM tread, width {1815 mm}{71.46 in}
- 405/70 R 20 EM Alliance 608 ET0, EM tread, width {1829 mm}{72.01 in}
- 340/80 R 18 ET0 Alliance Multiuse 550, Multiuse tread, width {1770 mm}{69.69 in}
- 400/70 R 20 ET0 Alliance Multiuse 550, Multiuse tread, width {1830 mm}{72.05 in}
- 400/70 R 20 ET-60 Alliance Multiuse 550, Multiuse tread, width {1950 mm}{76.77 in}

## **Water filling**

- Water filling valves without filling (front wheels)
- Water filling valves without filling (rear wheels)
- Water filling valves without filling (front and rear wheels)
- Water filling valves with filling (front wheels)
- Water filling valves with filling (rear wheels)
- Water filling valves with filling (front and rear wheels)

## **Loading system**

- Loading swing arm damping
- Lowering brake valve (hose burst valves for lift and tipping cylinders)

## **Quick change plates**

- Euro (hydraulic - ISO23206 EURO HV)
- SkidSteer (hydraulic)
- SMS HV (hydraulic)
- Kramer (hydraulic)
- Volvo TPV (hydraulic)

## **Hydraulics in front**

- 3rd control circuit flow sharing {100 l/min}{26.4 gpm} (loading system can be operated together with 3rd control circuit)
- 3rd control circuit flow sharing {115 l/min}{30.4 gpm} (loading system can be operated together with 3rd control circuit)
- 4th control circuit flow sharing {100 l/min}{26.4 gpm} (loading system can be operated together with 3rd control circuit)
- 4th control circuit flow sharing {115 l/min}{30.4 gpm} (loading system can be operated simultaneously)
- 3rd control circuit electrically proportional serial (loading system can be operated together with 3rd control circuit)
- 4th control circuit additionally electrically proportional parallel (operation: via control wheel on the right of the joystick)
- High flow load sensing - double-acting power hydraulics {150 l/min}{39.6 gpm} (machine height +{30 mm}{1.18 in}!)
- Additional hydraulic oil cooler
- Pressureless return at front (incl. leak oil line)

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## Hydraulics in rear

- Pressureless return at rear
- 1x double-acting hydraulic connection at rear via changeover valve (two couplings SVK size 3)
- (3rd control circuit at front or rear) (Operation: via switch (0 - 1) in joystick console + 3rd control circuit)
- One rear hydraulic connection {(51 l/min)}{(13.5 gpm)} double-acting (two couplings SVK size 3) incl. separate control valve (operation: via switch (1 - 0 - 2) in joystick console)
- Two rear hydraulic connections {(51 l/min)}{(13.5 gpm)} double-acting (four couplings SVK Gr.3) incl. separate control valve (operation: 1 DW connection via switch (1 - 0 - 2), 1 DW connection via button (1 - 0 - 2))
- (Connections can be operated simultaneously)

## Bio-hydraulic oil

- Shell Panolin S4 HLP Synth46 (biohydraulic oil)

## Electrical connections in front

- Front socket 7-pin for lighting front attachments
- Front socket 3-pin for double function (operation: Via 2 buttons on the joystick; 1st Function push-button, 2nd Function latching)
- Front socket 3-pin for double function (operation: Via 2 buttons on the joystick; 1st Function latching, 2nd Function push-button)
- Front socket 3-pin for double function (operation: Via 2 buttons on the joystick; 1st Function push-button, 2nd Function push-button)
- Front socket 3-pin for double function (operation: Via 2 buttons on the joystick; 1st Function latching, 2nd Function latching)

## Electrical connections in rear

- Rear 7-pin socket for lighting rear attachments
- Rear 3-pin socket (operation: Via switch (1 - 0 - 2) in joystick console)

## Safety options

- Reversing warning device (acoustic)
- Immobilizer ignition key (via coded ignition key)

## Other

- Battery disconnect switch 2 circuits (disconnection of the on-board power supply and the generator via 2 switching paths from the battery)
- Hand lever grease press
- Combination bag (warning triangle / first aid kit)
- Set of tools
- Tool box
- Fully automatic central lubrication unit
- cardan shaft protection

Warranty extension

- Economy 24 months (2500 h)
- Economy 36 months (3000 h)
- Economy 48 months (3500 h)
- Economy 60 months (4000 h)
- Premium 24 months (3000 h)
- Premium 36 months (4000 h)
- Premium 48 months (5000 h)
- Premium 60 months (6000 h)

## Custom-made paint finish

- Special painting RAL single color - instead of Weidemann red
- Special painting RAL multicolored

## Trailer and recovery equipment

- Trailer hitch {38 mm}{1.5 in}, automatic
- Trailer hitch {38 mm}{1.5 in}, automatic, height-adjustable
- Trailer hitch ball head K50, height-adjustable
- Trailer hitch Auto-Hitch

## Self-propelled work machines with ball hitch

- Trailer hitch {38 mm}{1.5 in}, automatic