

# WL20e

## Wheel Loader

Electric, practical, emission-free

The WL20e is the first exclusively electric-powered wheel loader by Wacker Neuson. Its performance characteristics correspond to those of a conventional diesel-powered machine. The installed 48-volt lithium-ion battery is optionally available in three power levels, so that running and charging times can be optimally matched to the work requirements. The WL20e works fully emissions-free on site and with significantly lower noise pollution. For the end user, this means greater flexibility in application, environmental protection and significant savings on operating costs.

MAT: 1000455398

## Highlights

- Innovative technology, proven in the field
- Powerful lithium-ion battery
- Easy charging options
- Comfortable cab
- EPS folding overhead guard (Easy Protection System)

## Technical Data

### Standard battery

| | |
|---|---|
| Battery technology | Lithium-ion |
| Battery voltage class | 48 V |
| Battery capacity | 14.1 kWh |
| Battery weight | 132 kg |
| On-board charging capacity (max.) | 3 kW |
| Loading time (0-100%) | 4 - 6* h |
| Loading time (20-80%) | 2,9* h |
| Running time up to | 3,3** h |

### Battery Option 1

| | |
|---|---|
| Battery technology | Lithium-ion |
| Battery voltage class | 48 V |
| Battery capacity | 18.7 kWh |
| Battery weight | 148 kg |
| On-board charging capacity (max.) | 6 kW |
| Loading time (0-100%) | 3 - 8* h |
| Loading time (20-80%) | 1,9* h |
| Running time up to | 5,1** h |

### Battery Option 2

| | |
|---|---|
| Battery technology | Lithium-ion |
| Battery voltage class | 48 V |
| Battery capacity | 23.4 kWh |
| Battery weight | 165 kg |
| On-board charging capacity (max.) | 6 kW |
| Loading time (0-100%) | 4 - 10* h |
| Loading time (20-80%) | 2,4* h |
| Running time up to | 7,3** h |

### Electric motor

| | |
|---|---|
| Motor traction drive (EN60034-1) | 6,5 kW |
| Motor work hydraulics (EN60034-1) | 8.5 kW |

### Electrical system

| | |
|---|---|
| Operating voltage | 12 V |

### Weights

| | |
|---|---|
| Bucket capacity (standard bucket) | 0.19 m³ |
| Operating weight | 2,180 - 2,230 kg |
| Tipping load with bucket – machine straight, loading frame horizontal | 1,550 - 1,620 kg |
| Tipping load with bucket – machine pivoted, loading frame horizontal | 1,210 - 1,320 kg |
| Tipping load with pallet fork – machine straight, loading frame horizontal | 1,110 - 1,160 kg |

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| | |
|---|---|
| Tipping load with pallet fork – machine pivoted, loading frame horizontal | 860 - 940 kg |

## Driver's cab

| | |
|---|---|
| Driver's cab | FSD (EPS, cabin) |

## Filling levels

| | |
|---|---|
| Tank capacity for hydraulic oil | 20 l |

## Drive system

| | |
|---|---|
| Type of drive | Electrical |
| drive unit | universal joint shaft |
| Speed levels | 1 |
| Axle | T80 |
| Travel speed Standard | 0-15 km/h |
| Operating brake | Drum brake acting on all four wheels |
| Parking brake | Electrical |

## Hydraulic system

| | |
|---|---|
| Work hydraulics discharge volume (max.) | 30 l/min |
| Work hydraulics working pressure (max.) | 225 bar |

## Kinematics

| | |
|---|---|
| Kinematics type | P |
| Lifting cylinder | 2 |
| Tipping cylinder | 1 |
| Quick change system | hydraulic |

## Steering

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

## Noise characteristic values

| | |
|---|---|
| Average sound power level LwA (operator's canopy) | 85.1 dB(A) |
| Guaranteed sound power level LwA (operator's canopy) | 87 dB(A) |
| Specified sound pressure level LpA (operator's canopy) | 76 dB(A) |
| Average sound power level LwA (cabin) | 85.1 dB(A) |
| Guaranteed sound power level LwA (cabin) | 87 dB(A) |
| Specified sound pressure level LpA (cabin) | 75 dB(A) |

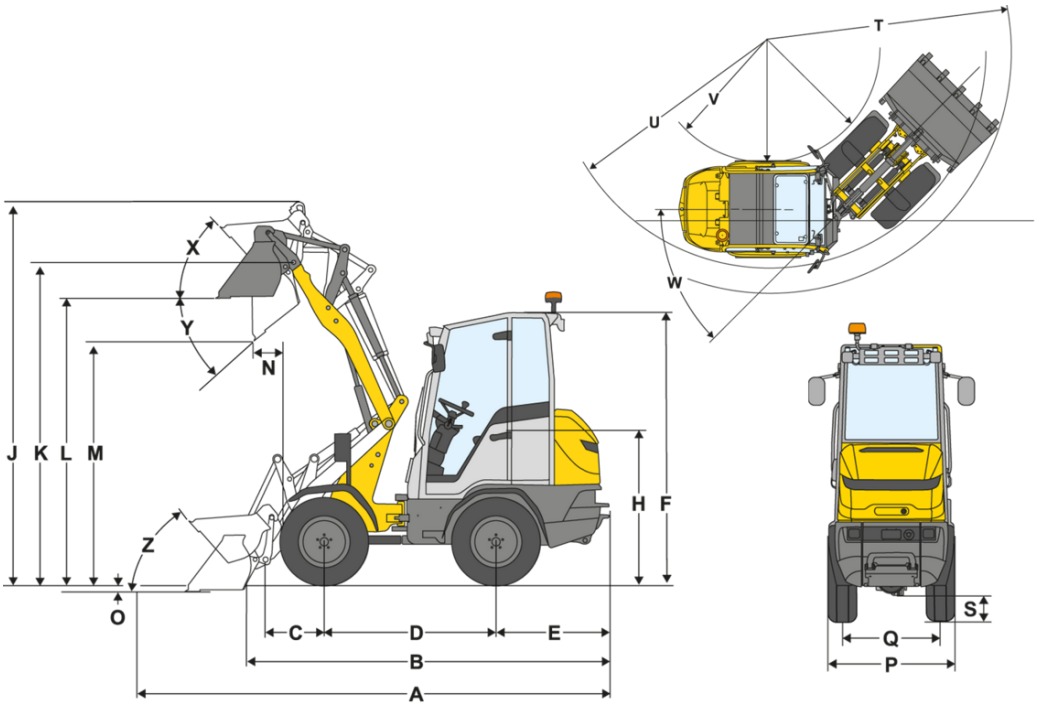
## Other information

FSD = overhead guard
EPS = Easy Protection System (fold-down overhead guard)
Tipping load calculation pursuant to ISO 14397

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## Dimensions




| | | |
|---|---|---|
| A | Total length | 3,697 mm |
| B | Total length without bucket | 3,061 mm |
| C | Bucket pivot point (to center of axle) | 509 mm |
| D | Wheel base | 1,468 mm |
| E | Rear overhang | 971 mm |
| F | Height with operator's canopy (fixed) | 2,259 mm |
| | Height with fold-down operator's canopy (EPS) | 2,336 mm |
| F | Height with fold-down operator's canopy (EPS), folded down | 1,939 mm |
| | Height with cab | 2,301 mm |
| H | Seat height | 1,292 mm |
| J | Total working height | 3,248 mm |
| K | Bucket pivot point (max. lift height) | 2,710 mm |
| L | Load-over height | 2,436 mm |
| M | Dumping height | 2,017 mm |
| N | Reach (at M) | 296 mm |
| O | Digging depth | 83 mm |
| P | Total width | 1,052 mm |
| Q | Track width | 804 mm |
| S | Ground clearance | 219 mm |
| T | Maximum external radius | 2,645 mm |
| U | Radius on the outer edge | 2,379 mm |
| V | Inner radius | 1,205 mm |
| W | Articulation angle | 45 ° |
| X | Rollback angle at max. lift height | 50 ° |
| Y | Dumping angle | 40 ° |
| Z | Rollback angle on ground | 49 ° |

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