



## WL28e

### Wheel Loader

Electric, powerful, environmentally-friendly

The power ratings of the electrically-driven WL28e wheel loader correspond to those of a conventional diesel-operated machine. The installed 96-Volt lithium-ion battery is available in three power ratings so that the running and charging times can be optimally coordinated with the work requirements. Different charging cables and plugs ensure the machine's flexible charging options. The WL28e works on-site completely free from exhaust gases and with significantly lower noise emissions. For the end user, this means greater flexibility in application, environmental protection and significant savings with operating costs. The low design of the front end therefore provides the perfect visibility and high tipping loads. It will master pallets with paving stones or other transported goods up to 1.6 t effortlessly.

### Highlights

- Powerful lithium-ion battery
- Easy charging options
- High productivity thanks to the low front carriage
- Comfort cab
- Easy-to-read digital display

### Technical Data

#### ■ Standard battery

|                                   |             |
|-----------------------------------|-------------|
| Battery technology                | Lithium-ion |
| Battery voltage class             | 96 V        |
| Battery capacity                  | 14.1 kWh    |
| Battery weight                    | 153 kg      |
| On-board charging capacity (max.) | 3 kW        |
| Loading time (0-100%)             | 4,7 - 6* h  |
| Loading time (20-80%)             | 2,9* h      |
| Running time up to                | 2,5** h     |

#### ■ Battery Option 1

|                                   |              |
|-----------------------------------|--------------|
| Battery technology                | Lithium-ion  |
| Battery voltage class             | 96 V         |
| Battery capacity                  | 18.0 kWh     |
| Battery weight                    | 186 kg       |
| On-board charging capacity (max.) | 6 kW         |
| Loading time (0-100%)             | 3,2 - 7,5* h |
| Loading time (20-80%)             | 1,8* h       |
| Running time up to                | 3,5** h      |

#### ■ Battery Option 2

|                                   |               |
|-----------------------------------|---------------|
| Battery technology                | Lithium-ion   |
| Battery voltage class             | 96 V          |
| Battery capacity                  | 28.0 kWh      |
| Battery weight                    | 244 kg        |
| On-board charging capacity (max.) | 6 kW          |
| Loading time (0-100%)             | 5,5 - 11,5* h |
| Loading time (20-80%)             | 2,7* h        |
| Running time up to                | 5,3** h       |

#### ■ Electric motor

|                                  |         |
|----------------------------------|---------|
| Motor traction drive (ECE R085)  | 33,1 kW |
| Motor work hydraulics (ECE R085) | 21.2 kW |

#### ■ Electrical system

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

#### ■ Weights

|   |                     |
|---|---------------------|
| Bucket capacity (standard bucket)                                     | 0.42 m <sup>3</sup> |
| Operating weight  | 2,800 - 3,300 kg    |
| Tipping load with bucket – machine straight, loading frame horizontal | 1,860 - 2,510 kg    |
| Tipping load with bucket – machine pivoted, loading frame horizontal  | 1,560 - 2,070 kg    |

|  |                  |
|--|------------------|
| Tipping load with pallet fork – machine straight, loading frame horizontal | 1,550 - 2,070 kg |
|--|------------------|

|   |                  |
|---|------------------|
| Tipping load with pallet fork – machine pivoted, loading frame horizontal | 1,310 - 1,720 kg |
|---|------------------|

#### ■ Driver's cab

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

#### ■ Filling levels

|                                 |      |
|---------------------------------|------|
| Tank capacity for hydraulic oil | 30 l |
|---------------------------------|------|

#### ■ Drive system

|               |            |
|---------------|------------|
| Type of drive | Electrical |
|---------------|------------|

|            |                       |
|------------|-----------------------|
| drive unit | universal joint shaft |
|------------|-----------------------|

|              |   |
|--------------|---|
| Speed levels | 2 |
|--------------|---|

|      |       |
|------|-------|
| Axle | PA940 |
|------|-------|

|                       |           |
|-----------------------|-----------|
| Travel speed Standard | 0-15 km/h |
|-----------------------|-----------|

|                       |           |
|-----------------------|-----------|
| Travel speed Option 1 | 0-20 km/h |
|-----------------------|-----------|

|                       |           |
|-----------------------|-----------|
| Travel speed Option 2 | 0-25 km/h |
|-----------------------|-----------|

|                 |  |
|-----------------|--|
| Operating brake | Multi-disc brake on front axle acting on rear axle via universal joint shaft |
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|               |  |
|---------------|--|
| Parking brake | Electric parking brake with hill-hold function |
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|                   |                                      |
|-------------------|--------------------------------------|
| Differential lock | 100 % front axle + rear axle(option) |
|-------------------|--------------------------------------|

#### ■ Hydraulic system

|   |          |
|---|----------|
| Work hydraulics discharge volume (max.) | 44 l/min |
|---|----------|

|   |         |
|---|---------|
| Work hydraulics working pressure (max.) | 210 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 | ± 8 degree |
|-------------------|------------|

#### ■ Noise characteristic values

|   |            |
|---|------------|
| Average sound power level LwA (operator's canopy) | 83.9 dB(A) |
|---|------------|

|  |          |
|--|----------|
| Guaranteed sound power level LwA (operator's canopy) | 85 dB(A) |
|--|----------|

|  |          |
|--|----------|
| Specified sound pressure level LpA (operator's canopy) | 60 dB(A) |
|--|----------|

|                                       |            |
|---------------------------------------|------------|
| Average sound power level LwA (cabin) | 83.9 dB(A) |
|---------------------------------------|------------|

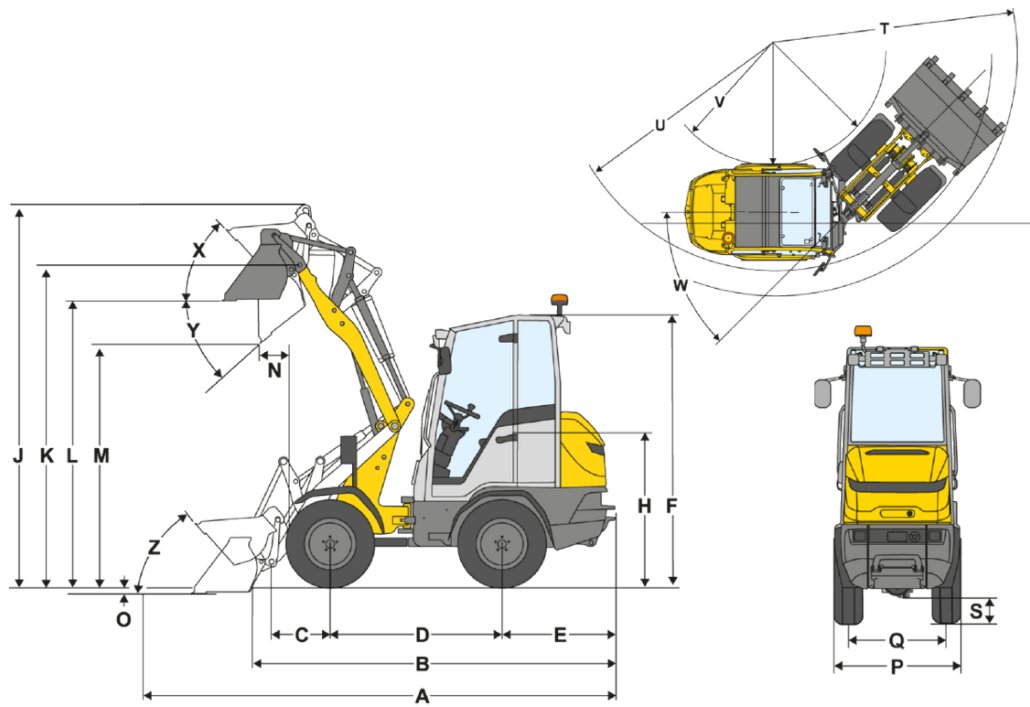
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|--|----------|
| Guaranteed sound power level LwA (cabin) | 85 dB(A) |
|--|----------|

|  |          |
|--|----------|
| Specified sound pressure level LpA (cabin) | 64 dB(A) |
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#### ■ Other information

FSD = overhead guard  
 EPS = Easy Protection System (fold-down overhead guard)  
 Tipping load calculation pursuant to ISO 14397  
 \*The charging time is dependent on different charging options. Onboard charger 3 kW (standard) with auxiliary onboard charger, overall 6 kW (option). The following charging plugs are available: 230 V / 10 A Schuko, 230 V / 16 A CEE (blue, 3-pole), 400 V / 16 A CEE (red, three-phase current, 5-pole), 400 V / 16 A (type 2 Wallbox plug, IEC 62196) and other adapter plugs.  
 \*\*The battery charging times are dependent on the respective application conditions, the task being performed and the driving style. This can result in a longer running time. However, in extreme cases, it is also possible that you may fall short of the specified running times. The specified running times refer to uninterrupted operation and working with the machine.

## Dimensions



|   |  |          |
|---|--|----------|
| A | Total length   | 4,616 mm |
| B | Total length without bucket                                | 3,710 mm |
| C | Bucket pivot point (to center of axle)                     | 670 mm   |
| D | Wheel base   | 1,760 mm |
| E | Rear overhang  | 1,230 mm |
| F | Height with operator's canopy (fixed)                      | 2,340 mm |
|   | Height with fold-down operator's canopy (EPS)              | 2,395 mm |
| F | Height with fold-down operator's canopy (EPS), folded down | 1,890 mm |
|   | Height with cab  | 2,350 mm |
| H | Seat height  | 1,350 mm |
| J | Total working height                                       | 3,210 mm |
| K | Bucket pivot point (max. lift height)                      | 2,560 mm |
| L | Load-over height   | 2,240 mm |
| M | Dumping height   | 1,700 mm |
| N | Reach (at M)   | 520 mm   |
| O | Digging depth  | 130 mm   |
| P | Total width  | 1,250 mm |
| Q | Track width  | 940 mm   |
| S | Ground clearance   | 270 mm   |
| T | Maximum radius   | 3,200 mm |
| U | Radius on the outer edge                                   | 2,800 mm |
| V | Inner radius   | 1,510 mm |
| W | Articulation angle   | 45 °     |
| X | Rollback angle at max. lift height                         | 47 °     |
| Y | Dumping angle  | 41 °     |
| Z | Rollback angle on ground                                   | 50 °     |