MEKWEL

MC918 EV

Electric Wheel Loader

MC918 EV

POWERFUL & DURABLE





58 kW

Rated power

6500 kg

Operating weight

1.0 m³

Bucket capacity

MEKWEL

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ABOUT
MC918 EV

The MC918 EV electric wheel loader combines a 6500 kg operating weight with a 1.0 m³ bucket. A permanent magnet synchronous motor system and 70 kWh or 100 kWh LFP battery options support loading, unloading and stacking.

POWERFUL & DURABLE



Application scenarios

- Palletized goods (with forks)
- Orchard & agricultural work
- Small earthmoving & rural self-built houses
- Material, agricultural stacking
- Landscaping & private gardens
- Soil and waste transfer



Electric drive. Articulated handling.

Overall width is 2060 mm and overall height is 2745 mm. The compact articulated chassis has a 2150 mm wheelbase and 370 mm ground clearance.

The 16/70-20 tyres are specified at 0.30-0.32 MPa at the front and 0.28-0.30 MPa at the rear.

Turning radius over the bucket is 4602 mm. Turning radius over the tyre is 4123 mm, with an inside tyre radius of 2163 mm.



Electric Power & Articulated Steering

The drive system combines a 40 kW travel motor and an 18 kW hydraulic motor. The specification lists IP67 motor protection and a condition temperature of -40 to +85°C.

The center articulation provides ±38° steering, with 9° center oscillation. An FNR control handle supports travel direction selection.

Loading Performance

Tipping load is 5033 kg with the machine straight and 3966 kg when fully articulated.

The gear pump delivers 70 L/min. Working system pressure is 24 MPa, and steering system pressure is 19 MPa.

Working linkage

Dumping height is 2660 mm and dumping reach is 723 mm. Digging depth is 90 mm.



PERFORMANCE & BEAUTY





PERFORMANCE MEETS BEAUTY

Green body panels, a white rear hood and graphite black working structures define the MC918 EV. The articulated chassis and glazed cab bring visibility and access into a compact wheel loader layout.



6500 kg
Operating weight

1.0 m³
Bucket capacity

2660 mm
Dumping height



70 / 100 kWh

Electric power system

Two LFP battery options are specified, with overall voltages of 310 V and 328 V. Battery protection is IP68, with liquid cooling.

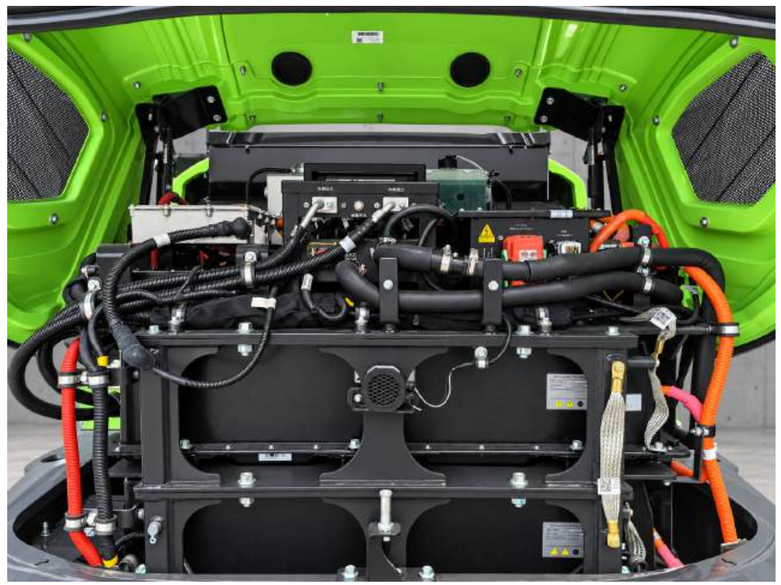
Operating time is listed as 6-8 hours in general conditions and 4-6 hours in heavy-duty conditions. Charging data are provided below for each battery and power option.

Charging time

20%-100% state of charge

Battery capacity	Charging power	Charging time
70 kWh	80 kW	**<1.5 h**
70 kWh	60 kW	**<1.5 h**
70 kWh	11 kW	**<6.5 h**
100 kWh	80 kW	**<2 h**
100 kWh	60 kW	**<2 h**
100 kWh	11 kW	**<9 h**

Charging supply requirements 230 V / 400 V, 50 Hz



Battery access

The rear hood opens forward by more than 45° for access to the electrical system.

Service access

The cab tilts sideways by 35° for motor and integrated controller inspection.

Battery thermal control

The LFP battery uses liquid cooling, with a specified protection level of IP68.



Cooling assembly

The side-mounted fan and grille are accessible alongside the cab and rear body.

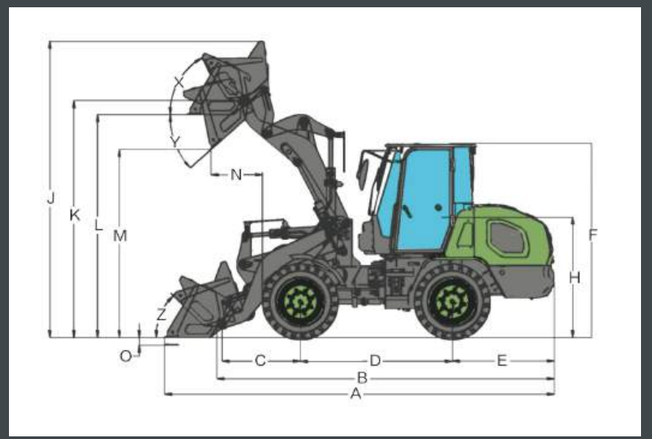


Hydraulic oil tank

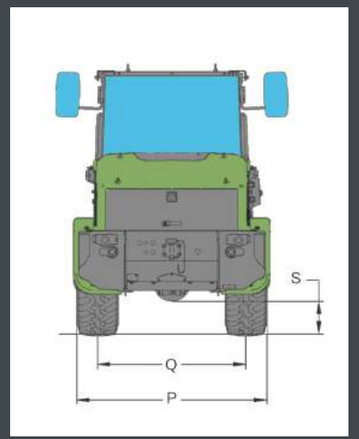
The side tank includes an externally visible oil-level gauge.

MC918 EV

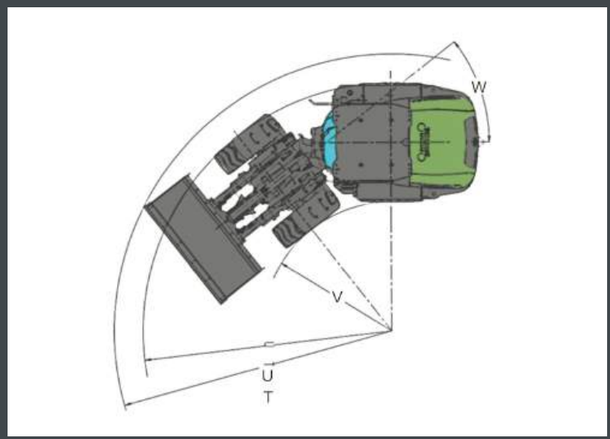
DETAILED PARAMETERS



SIDE VIEW



REAR VIEW



TURNING ENVELOPE

Battery & Motor

Battery voltage	**310 V / 328 V**
Battery capacity	**70 kWh / 100 kWh**
Battery type	**LFP**
Battery protection	**IP68**
Battery cooling	**Liquid cooling**
Travel motor	**40 kW**
Hydraulic motor	**18 kW**
Motor protection	**IP67**
Motor condition temperature	**-40 to +85°C**
Power supply voltage	**230 V / 400 V**
Power supply frequency	**50 Hz**
Working hours, general	**6-8 h**
Working hours, heavy duty	**4-6 h**

Performance & Service

Rated power	**58 kW**
Operating weight	**6500 kg**
Bucket capacity	**1.0 m³**
Bucket width	**2060 mm**
Tipping load, straight	**5033 kg**
Tipping load, fully articulated	**3966 kg**
Working pump	**Gear pump**
Working pump flow	**70 L/min**
Working system pressure	**24 MPa**
Steering system pressure	**19 MPa**
Tyre model	**16/70-20**
Tyre pressure, front	**0.30-0.32 MPa**
Tyre pressure, rear	**0.28-0.30 MPa**
Sound pressure level	**75 dB(A)**
Exterior sound power level	**99 dB(A)**
Hydraulic oil	**47 L**
Hydraulic system including tank	**35 L × 2**
Drive axle oil	**3 L × 2**

Dimensions

A. Overall length	**5520 mm**
B. Overall length without bucket	**4772 mm**
C. Axle center to bucket pivot	**1108 mm**
D. Wheelbase	**2150 mm**
E. Rear overhang length	**1445 mm**
F. Overall height	**2745 mm**
H. Seat height from ground	**1660 mm**
J. Total working height	**4193 mm**
K. Hinge pin height, fully raised	**3354 mm**
L. Bucket leveling height	**3155 mm**
M. Dumping height	**2660 mm**
N. Dumping reach	**723 mm**
O. Digging depth	**90 mm**
P. Overall width	**2060 mm**
Q. Track width	**1550 mm**
S. Ground clearance	**370 mm**
T. Turning radius over bucket	**4602 mm**
U. Turning radius over tyre	**4123 mm**
V. Turning radius inside tyre	**2163 mm**
W. Steering angle	**38°**
X. Rollback angle, fully raised	**58°**
Y. Dumping angle at max. lift	**42°**
Z. Rollback angle at ground	**43.7°**