



838TE

BATTERY TYPE	LFP
RATED STORAGE ENERGY	205 kWh
OPERATING WEIGHT	12,780 kg
STANDARD BUCKET SIZE	2 m ³
STANDARD BREAKOUT FORCE	100 kN
STANDARD DUMP CLEARANCE	2,856 mm



B A T T E R Y E L E C T R I C V E H I C L E

TOUGH WORLD. TOUGH EQUIPMENT.

838TE SPECIFICATIONS >>>

POWER BATTERY

Battery Type	LFP
Rated Storage Energy	193 kWh
Nominal Voltage	634 V
System Voltage	DC 24 V
Protection Level	IP67
Cooling Type	Intelligent temperature control, liquid cooling
Recommended Charging Pile	120 ~ 240 kW
Charging Time (160 kW Charging Pile)	≤ 65 min (SOC12% ~ 95%)

DRIVE MOTOR

Peak Power	120 kW
Protection Level	IP67
Ambient Temperature	-40 ~ 85°C
Cooling Type	Intelligent temperature control, liquid cooling
Altitude	≤ 5,000 m

HYDRAULIC MOTOR

Peak Power	95 kW
Protection Level	IP67
Ambient Temperature	-40 ~ 85°C
Cooling Type	Intelligent temperature control, liquid cooling
Altitude	≤ 5,000 m

TRANSMISSION

Manufacturer	LiuGong
Number of Speeds, fwd / rev	2 / 1
Maximum Travel Speed, fwd	40 km/h
Maximum Travel Speed, rev	16.7 km/h
Transmission Type	Fixed shaft electronically controlled shift

AXLES

Type	LiuGong dry axle
Axle Oscillation	± 10°
Tire Size	17.5-25 PR12 L-3 TT

WORKING HYDRAULICS

System	Fixed single pump
Operation	Single electric-control joystick
Work Pump	Gear pump
Work Pressure	25 MPa

STEERING HYDRAULICS

System	Large displacement steering
Steering Pump	Gear pump
Steering Relief Pressure	17.2 MPa

BRAKES

Service Brake Type	Full hydraulic brake
Service Brake Actuation	Hydraulic dry brake
Parking Brake Type	Drum
Parking Brake Actuation	Hydraulic brake cylinder

PERFORMANCES

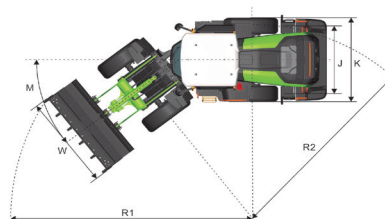
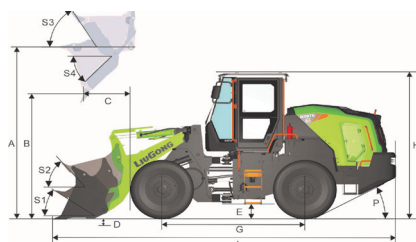
Operating Weight	12,780 kg
Bucket Capacity	2 m³
Tipping Load - Straight	10,950 kg
Tipping Load - Full Turn	9,600 kg
Raise Time	5.3 s
Dump Time	1.6 s
Float Down Time	2.8 s
Fastest Total Cycle Time	9.7 s
Bucket Breakout Force	100 kN
A Maximum Hinge Pin Height	3,801 mm
B Dump Clearance at Full Height Discharge	2,856 mm
C Dump Reach at Full Height Discharge	1,188 mm
D Maximum Digging Depth, Bucket Level	52 mm
S ₁ Bucket Rollback at Ground Level	40°
S ₂ Bucket Rollback at Carry	48°
S ₃ Bucket Rollback at Maximum Height	53°
S ₄ Maximum Dump Angle at Full Height	45°

DIMENSIONS

E Ground Clearance	328 mm
G Wheelbase	3,020 mm
H Cab Height	3,270 mm
J Wheel Tread	1,950 mm
K Width Over Tires	2,395 mm
L Length with Bucket Down	7,276 mm
M Turn Angle, Either Side	40°
P Rear Angle of Departure	28°
R ₁ Turning Radius, Bucket Carry	6,013 mm
R ₂ Turning Radius, Outside of Tire	5,540 mm
W Width Over Bucket	2,460 mm

SERVICE CAPACITIES

Anti-freeze	45 L
Hydraulic Reservoir	105 L
Axle, Front / Rear	29 / 32 L
Transmission	16.5 L



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Specifications and designs are subject to change without notice. Machines shown may include optional equipment. LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.

07/2025 Designed by LiuGong
Replace the previous versions of 07/2025