LiuGong

820TE

BATTERY TYPE	LFP
RATED STORAGE ENERGY	70.5 kWh
OPERATING WEIGHT	7,000 kg
RATED LOAD CAPACITY	2,000 kg
STANDARD BUCKET SIZE	1.2 m^3
STANDARD BREAKOUT FORCE	61 kN
STANDARD DUMP CLEARANCE	2,620 mm



BATTERY ELECTRIC VEHICLE

TOUGH WORLD. TOUGH EQUIPMENT.

820TE SPECIFICATIONS

POWER BATTERY	
Battery Type	LFP
Rated Storage Energy	70.5 kWh
Nominal Voltage	309 V
System Voltage	DC24 V
BMS Protection Level	IP67
Cooling Type	Intelligent temperature control liquid cooling
Recommended Charger	≤ 80 kW
Charging Time (80kW Charging Power)	≤ 60 min

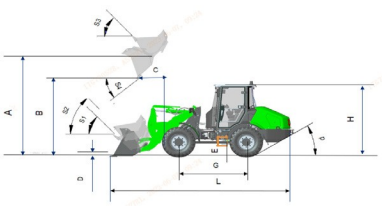
DRIVE MOTOR	
Peak Power	50 kW
Protection Level	IP67
Ambient Temperature	- 40 ~ 85℃
Cooling Type	Intelligent temperature control liquid cooling
Altitude	≤ 5,000 m

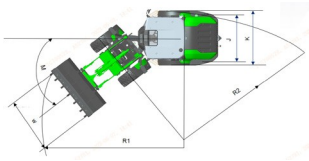
HYDRAULIC MOTOR	
Peak Power	60 kW
Protection Level	IP67
Ambient Temperature	- 40 ~ 85℃
Cooling Type	Intelligent temperature control liquid cooling
Altitude	≤ 5,000 m

TRANSMISSION	
Manufacturer	LiuGong
Number of Speeds, fwd / rev	2 / 1
Maximum Travel Speed, fwd	40 km/h
Maximum Travel Speed, rev	19 km/h
Transmission Type	Fixed-axis power shift

AXLES	
Type	LiuGong wet axle
Axle Oscillation	± 8°
Tire Size	405/70R20-LR400

WORKING HYDRAULICS	
System	Variable single pump
Operation	Single electric-control joystick
Work Pump	Variable displacement piston pump (single-pump system)
Work Pressure	23.5 MPa





STEERING HYDRAULICS	
System	Large displacement steering gear
Steering Pump	Variable displacement piston pump (single-pump system)
Steering Relief Pressure	19 MPa

BRAKES	
Service Brake Type	Full hydraulic braking
Service Brake Actuation	Hydraulic wet brake
Parking Brake Type	Disc
Parking Brake Actuation	Hydraulic brake cylinder

LOADER ARM PERFORMANCE	
Operating Weight	7,000 kg
Bucket Capacity	1.2 m³
Tipping Load - Straight	4,350 kg
Tipping Load - Full Turn	3,650 kg
Raise Time	4.7 s
Dump Time	1.1 s
Float Down Time	4.0 s
Fastest Total Cycle Time	9.8 s
Bucket Breakout Force	61 kN
A Maximum Hinge Pin Height	3,408 mm
B Dump Clearance at Full Height Discharge	2,620 mm
C Dump Reach at Full Height Discharge	850 mm
D Maximum Digging Depth, Bucket Level	95 mm
S_1 Bucket Rollback at Ground Level	45°
S_2 Bucket Rollback at Carry	49.5°
S_3 Bucket Rollback at Maximum Height	60°
S_4 Maximum Dump Angle at Full Height	45°

DIMENSIONS	
E Ground Clearance	350 mm
G Wheelbase	2,150 mm
H Cab Height	2,520 mm
J Wheel Tread	1,520 mm
K Width over Tires	1,925 mm
L Length with Bucket Down	5,894 mm
M Turn Angle, Either Side	40°
P Rear Angle of Departure	30°
R_1 Turning Radius, Bucket Carry	4,749 mm
R_2 Turning Radius, Outside of Tire	3,953 mm
W Width over Bucket	2,225 mm

SERVICE CAPACITIES	
Anti-freeze	25 L
Hydraulic Reservoir	54 L
Axle, Front / Rear	13 / 13 L
Transmission	4 L

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

03/2025 Designed by LiuGong
Replace the previous versions of 03/2025