

 **LIUGONG**

# 870HE



<b>BATTERY TYPE</b>	LFP
<b>RATED STORAGE ENERGY</b>	423 kWh
<b>OPERATING WEIGHT</b>	24,200 kg
<b>RATED LOAD CAPACITY</b>	7,500 kg
<b>STANDARD BUCKET SIZE</b>	4.7 m <sup>3</sup>
<b>STANDARD BREAKOUT FORCE</b>	220 kN
<b>STANDARD DUMP CLEARANCE</b>	3,100 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.

### POWER BATTERY

Battery Type	LFP
Rated Storage Energy	423 kWh
Nominal Voltage	618 V
System Voltage	DC24 V
BMS Protection Level	IP67
Cooling Type	Intelligent temperature control liquid cooling
Recommended Charger	240 ~ 300 kW
Charging Time (300 kW Charging pile)	≤ 90 min

### DRIVE MOTOR

Peak Power	160 kW
Protection Level	IP67
Ambient Temperature	- 40 ~ 85°C
Cooling Type	Intelligent temperature control liquid cooling
Altitude	≤ 5000 m

### HYDRAULIC MOTOR

Peak Power	160 kW
Protection Level	IP67
Ambient Temperature	- 40 ~ 85°C
Cooling Type	Intelligent temperature control liquid cooling
Altitude	≤ 5000 m

### TRANSMISSION

Manufacturer	LiuGong
Number of Speeds, fwd / rev	2 / 2
Maximum Travel Speed, fwd	40 km/h
Maximum Travel Speed, rev	25 km/h
Transmission Type	Planetary electric control shift

### AXLES

Type	LiuGong wet axle
Axle Oscillation	± 9.5°
Tire Size	26.5-25 PR28

### WORKING HYDRAULICS

System	Variable two pumps confluent
Operation	Single electric-control joystick
Work Pump	Variable displacement piston pump
Work Pressure	28 MPa

### STEERING HYDRAULICS

System	Flow amplifying
Steering Pump	Variable displacement piston pump
Steering Relief Pressure	21 MPa

### BRAKES

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

### LOADER ARM PERFORMANCE

Operating Weight	24,200 kg
Bucket Capacity	4.7 m³
Tipping Load - Straight	18,900 kg
Tipping Load - Full Turn	16,800 kg
Raise Time	5.2 s
Dump Time	1.3 s
Float Down Time	3.0 s
Fastest Total Cycle Time	9.5 s
Bucket Breakout Force	220 kN
A Maximum Hinge Pin Height	4,470 mm
B Dump Clearance at Full Height Discharge	3,100 mm
C Dump Reach at Full Height Discharge	1,257 mm
D Maximum Digging Depth, Bucket Level	119 mm
S <sub>1</sub> Bucket Rollback at Ground Level	45°
S <sub>2</sub> Bucket Rollback at Carry	50°
S <sub>3</sub> Bucket Rollback at Maximum Height	58°
S <sub>4</sub> Maximum Dump Angle at Full Height	45°

### DIMENSIONS

E Ground Clearance	460 mm
G Wheelbase	3,715 mm
H Cab Height	3,550 mm
J Wheel Tread	2,380 mm
K Width over Tires	3,050 mm
L Length with Bucket Down	8,957 mm
M Turn Angle, Either Side	38°
P Rear Angle of Departure	28°
R <sub>1</sub> Turning Radius, Bucket Carry	7,577 mm
R <sub>2</sub> Turning Radius, Outside of Tire	6,946 mm
W Width over Bucket	3,160 mm

### SERVICE CAPACITIES

Anti-freeze	45 L
Hydraulic Reservoir	284 L
Axle, Front / Rear	63 / 63 L
Transmission	23 L

