



# 856HE



<b>BATTERY TYPE</b>	LFP
<b>RATED STORAGE ENERGY</b>	350 kWh
<b>OPERATING WEIGHT</b>	19,971 kg
<b>RATED LOAD CAPACITY</b>	5,800 kg
<b>STANDARD BUCKET SIZE</b>	3.5 m <sup>3</sup>
<b>STANDARD BREAKOUT FORCE</b>	162 kN
<b>STANDARD DUMP CLEARANCE</b>	2,977 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	350 kWh
Nominal Voltage	580 V
System Voltage	DC24V
BMS Protection Level	IP67
Cooling Type	Intelligent temperature control, liquid cooling
Recommended Charger	240 kW
Charging Time (300 kW Charging pile)	≤ 75 min

**DRIVE MOTOR**

Peak Power	160 kW
Protection Level	IP67
Ambient Temperature	- 40 ~ 85°C
Cooling Type	Intelligent temperature control, liquid cooling
Altitude	≤ 5,000 m

**HYDRAULIC MOTOR**

Peak Power	160 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
Transmission Type	Planetary, power shift

**AXLES**

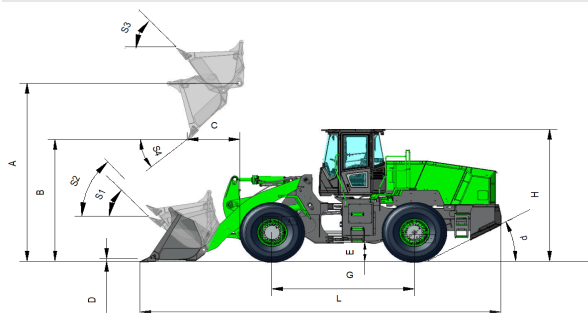
Type	LiuGong wet axle
Axle Oscillation	± 9.0°
Tire Size	23.5-25 PR20

**WORKING HYDRAULICS**

System	Fixed & variable dual pump confluent
Operation	Fingertip control
Work Pump	Gear pump
Work Pressure	25 MPa

**STEERING HYDRAULICS**

System	Flow amplifier
Steering Pump	Piston variable pump
Steering Relief Pressure	21 MPa

**BRAKES**

Service Brake Type	Full hydraulic
Service Brake Actuation	Hydraulic wet brake
Parking Brake Type	Drum
Parking Brake Actuation	Electro hydraulic control

**LOADER ARM PERFORMANCE**

Operating Weight	19,971 kg
Bucket Capacity	3.5 m³
Tipping Load - Straight	16,400 kg
Tipping Load - Full Turn	14,480 kg
Raise Time	5.2 s
Dump Time	1.5 s
Float Down Time	2.3 s
Fastest Total Cycle Time	9 s
Bucket Breakout Force	162 kN
A Maximum Hinge Pin Height	4,156 mm
B Dump Clearance at Full Height Discharge	2,977 mm
C Dump Reach at Full Height Discharge	1,231 mm
D Maximum Digging Depth, Bucket Level	50.2 mm
S <sub>1</sub> Bucket Rollback at Ground Level	44.3°
S <sub>2</sub> Bucket Rollback at Carry	49°
S <sub>3</sub> Bucket Rollback at Maximum Height	56°
S <sub>4</sub> Maximum Dump Angle at Full Height	45°

**DIMENSIONS**

E Ground Clearance	431 mm
G Wheelbase	3,525 mm
H Cab Height	3,500 mm
J Wheel Tread	2,280 mm
K Width Over Tires	2,880 mm
L Length with Bucket Down	8,615 mm
M Turn Angle, Either Side	38°
P Rear Angle of Departure	28°
R <sub>2</sub> Turning Radius, Bucket Carry	7,209 mm
R <sub>2</sub> Turning Radius, Outside of Tire	6,625 mm
W Width Over Bucket	2,970 mm

**SERVICE CAPACITIES**

Anti-freeze	45 L
Hydraulic Reservoir	230 L
Axle, Front / Rear	35 / 35 L
Transmission	30 L

