

POWERED BY WESTWELL 
Qomolo

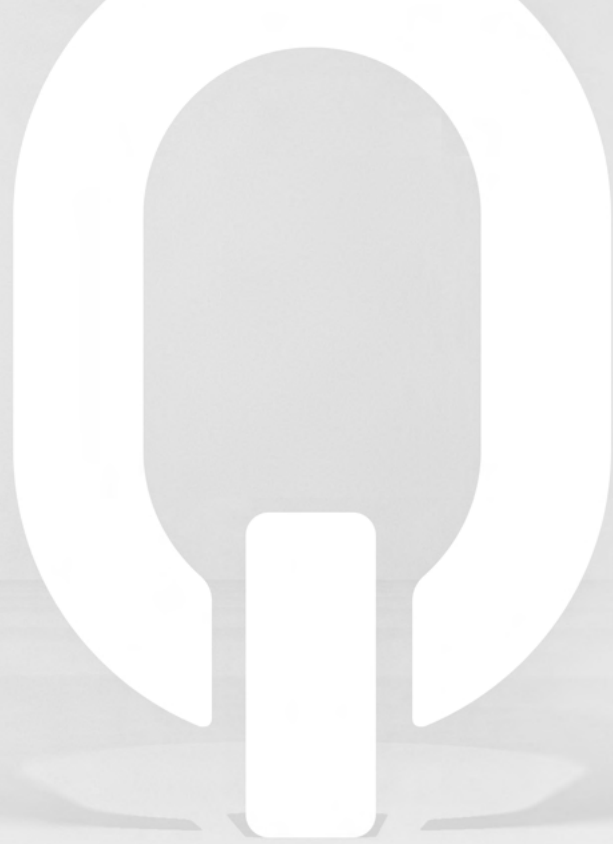
E-Truck S2

Intelligent Connected Truck

 **FORKLIFTCENTER**



**DRIVE TO FUTURE
DRIVE THE FUTURE**



A self-driving commercial vehicle brand that is determined to use technology to change the business model for users and create more value.



E-Truck S2

Upgradable autonomous intelligent networked new energy heavy-duty vehicle

E-Truck S2 is an upgradable unmanned intelligent connected new energy heavy-duty truck designed by WestWellTech with the concept of "green, safe, reliable, and intelligent." It is dedicated to providing safe and efficient operation assurance for closed/semi-closed scenarios such as parks, steel mills, and ports, and helps the traditional logistics industry transition to green and low-carbon upgrades.

The vehicle features a central drive and integrated vehicle thermal management technology, offering powerful performance, smooth gear shifting, and leading energy consumption..

The vehicle adopts a high-strength cage structure, one-piece stamping and welding frame, cab anti-smash overhead beam, and V-type thrust rod, ensuring safety and reliability.

The truck supports both fast charging and battery swapping for energy replenishment. With PowerOnair, it can achieve a fully automated battery swap in just 5 minutes. Alternatively, it can be fast-charged from 20% to 80% SOC in approximately 36 minutes.

The truck features a new E/E architecture and mature drive-by-wire chassis technology, enabling upgrades to L4 autonomous driving over its entire lifecycle, facilitating the transition from manned to unmanned operations.



High Performance and Smarter



Born for Efficiency



Designed for Continuous Operation



Upgradable to Autonomous Driving



E-Truck S2

Performance

282 kWh

Battery Capacity

405 kW

Peak power

75 ton

Max Traction load

150 km

Full Battery Range

580 mm

Fifth wheel stroke



E-Truck S2

General Dimensions

Cabin safety standards

- FOPS (ISO 3449)
- ROPS (ISO 3471)



- Lifting fifth wheel height: 1180~1760mm&1250~1830mm
- Minimum turning radius: $\leq 7100\text{mm}$
- Cabin size(Inside): 1540*1550*1750mm

Tyres	Wheelbase(mm)	Cylinder stroke (mm)	A*±15mm	B*±15mm
11R22.5	3650	580	1180	1760
315/80 R22.5	3650	580	1250	1830

A - Min.Height of fifth wheel, B - Max.Height of fifth wheel



E-Truck S2

Advantages



Low energy consumption

- Integrated central drive, transmission efficiency $\geq 93\%$
- Intelligent vehicle thermal management technology reduces energy consumption by 15%
- Efficient braking energy recovery, recovery efficiency increased by 30%
- 700Nm transmission takes force
- Comprehensive energy consumption $\leq 1.8\text{kWh/km}$



High security

- Integrated stamping + tail-welded frame 300mm (inner height) +10/10/10 (3 layers)
- High strength frame type body structure, high strength steel material $\geq 80\%$
- Combined cab anti-fall frame
- V-type thrust rod - Roll stability improved by 25%
- All-round vision enhancement: $\geq 30\%$ (All-round vision enhancement)



Supreme comfortabili

- Grammer airbag cushioned seat
- Cab double airbag rear suspension shock absorption
- Membrane air bag suspension
- 9.4kW high power overhead air conditioner
- One-click start /EPB/ knob shift



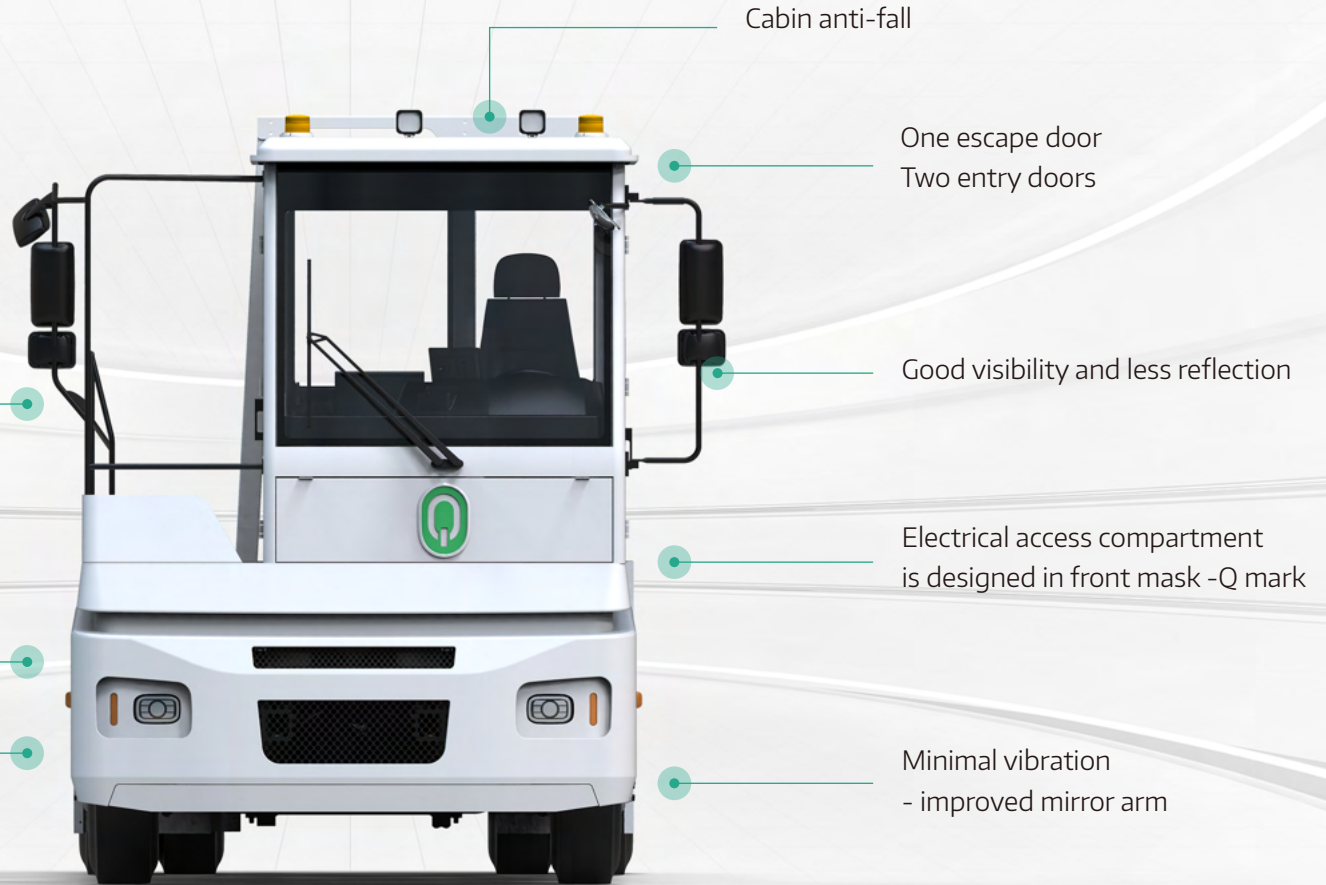
Higher intelligence

- Intelligent driving recorder monitoring system
- HMI-FMS
- Energy management
- TPMS
- EL4



E-Truck S2

General Dimensions



Cabin anti-fall

One escape door
Two entry doors

Good visibility and less reflection

Electrical access compartment
is designed in front mask -Q mark

Minimal vibration
- improved mirror arm

E-Truck Architecture 2.0
Autonomous driving upgraded

Electrophoretic + dusting treatment of
chassis/panels/bumpers

Ergonomic low entry step

High comfort cabin suspension



E-Truck S2

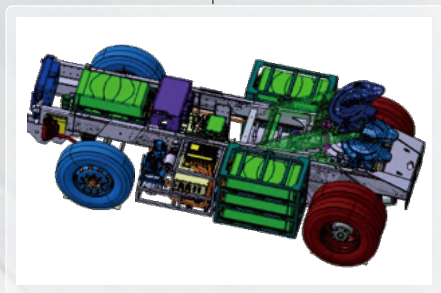
Powerful chassis



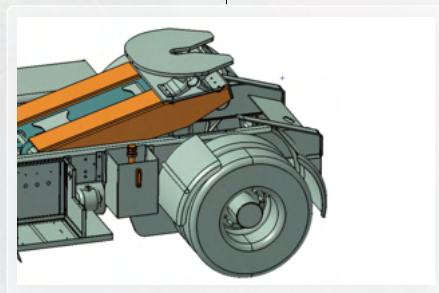
- Motor + four-speed transmission highly integrated central drive.



- CATL- High Security LFP



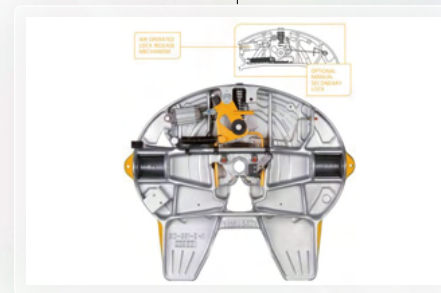
- Integrated stamping frame + welded frame
- Battery pack-2/3/3 Layout



- Hydraulic lifting fifth wheel
- Lifting capacity: 36,000kg



- Membrane air suspension
- V-type thrust rod



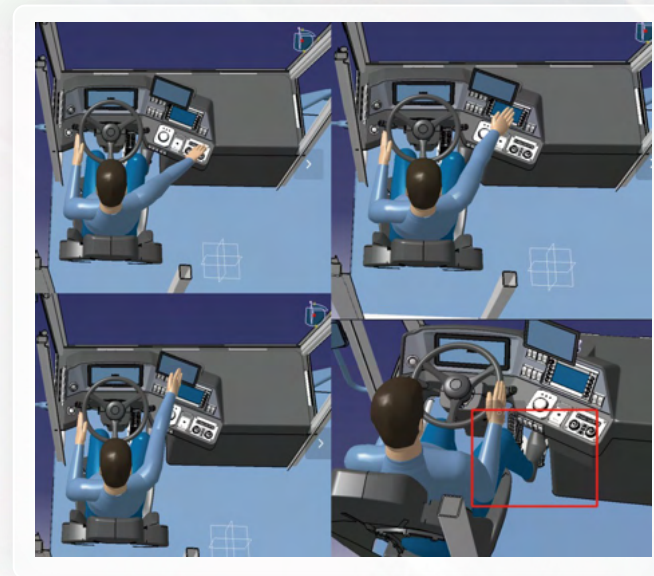
- SAF-Holland 3510 Casting Fifth Wheel

E-Truck S2

New central control



New surround central control model



Ergonomic check

Convenient operation

- Surround new look
- Enhanced switch layout

Excellent vision

- Instrument at 40° to level
- Instrument table spine height 190mm



E-Truck S2

L4 automatic driving



Upgrade to Autonomous
Retooling

Perception and localization

-  LiDAR
-  Binocular camera
-  Monocular camera
-  GNSS antenna
-  4G antenna

Planning and Control


-  Domain controller
-  Switch
-  Gateway
-  GNSS + IMU
-  PTP Timing Module

For L4 Upgrade Package, it will be able to realize autonomous driving and can be flexibly switched from autonomous driving to manual driving mode.



System	Parts list	Quantity
L4 upgrade package	Lidar	3
	Monocular camera	7
	Binocular camera	1
	GNSS + IMU	1
	Domain controller	2
	Custom network cable	Several
	Switchboard	1
	Gateway	1
	Gateway antenna	2
	PTP Timing Module	1
	5G CPE	1
	POE power supply module	1
	Reform and upgrade the support, bending and welding mold, labor	/

E-Truck S2-Standard

- L4 electronic and electrical architecture;
 - Steer by wire;
 - Drive by wire actuation;
 - Gear shifting by wire;
- 
- Easily Upgraded to L4
 - Remote Monitor
 - Predictive Maintenance

Parameters

Configuration Items	E-TRUCK S2	
Basic Parameters	Energy form	Pure electric
	Driving method	4*2
	Dimensions (mm)	5760*2520*3300
	Wheelbase (mm)	3,650
	Front overhang (mm)	1,300
	Rear overhang (mm)	810
	Front wheel track (mm)	2,100
	Rear wheel track (mm)	1,872
	Minimum ground clearance (mm)	245
	Vehicle completeness (kg)	10,500
	Maximum towing mass (kg)	75,000
	Front axle full load (kg)	11,000@25km/h
	Full load on rear axle (kg)	36,000@25km/h
	Maximum speed (km/h)	≥ 40
	High lifting height range (mm)	1,180~1,760 (580)
	Full load lifting time (S)	≤20
	Endurance (Dockside comprehensive working condition)	≥ 120km
	Full charge range	≥ 16h (SOC 100%-20%)
	Battery warranty	2,800 charge/discharge cycles / 5 years
		SOH ≥70%
	Minimum turning radius (m)	≤ 7.1
	Maximum climbing gradient	≥ 10%
	Front suspension type	Multi-leaf spring
Rear suspension	Airbag suspension	
Material	Body material	Q355B

Configuration Items	E-TRUCK S2	
Battery	Battery type	LFP
	Rated capacity (kW.h)	281.9
	Rated voltage (V)	618.24
	Cooling method	Liquid-cooled/liquid-heated (optional)
	Dual gun fast charging	●
	Motor	Driving method
Motor type		PMSM
Cooling method		Liquid-cooled
Rated power (Kw)		262
Peak power (Kw)		405
Rated torque (N.m)		1,150
Peak torque (N.m)		2,400
Wheels	Maximum speed (rpm)	4,000/7,000
	Tire specification	15/80 R22.5 or 11.00R22.5
	Rim material	Steel
Traction Type	Fifth wheel	50# Steel
Smart Cockpit	HMI display	●
	Driver fatigue monitor	●
	Intelligent grid	●
Smart driving sensors	Lidar	○
	Vision system	○
	Combined navigation	○
Safety configuration	EHPS	●
	EBS	●
	EPB	●
	ESC	●
	Tire pressure monitoring	●
	Brake type	Front and rear drum brakes

E-Truck S2

E-Truck S2 is an electric dock tractor designed and developed by Westwell with a focus on "green, reliable, safe and intelligent" design, which is committed to safe operation, efficient operation quotation escort for customers, and create greater value.





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