

LIUGONG

890T WHEEL LOADER

T-SERIES

Engine	Cummins X12
Max. Gross Power	287 kW
Operating Weight	31,500 - 35,300 kg
Bucket Capacities	4.0 - 9.0 m ³



TOUGH WORLD. TOUGH EQUIPMENT.

CUSTOMER DRIVEN DESIGN...

For over 65 years, LiuGong has built machines that thrive in the toughest environments. The 890T, part of our advanced T-Series, is engineered for maximum power, precision, and durability.

Designed to excel in demanding applications, this machine combines cutting-edge technology with proven reliability to keep you working efficiently in even the harshest conditions.

Since launching our first wheel loader in 1966, we've remained committed to innovation, ensuring every LiuGong machine is built to perform, wherever the job takes you.



YOUR PERFORMANCE DASHBOARD

Research tells us that 6 key performance areas really matter to you. We'd like to use this performance dashboard to present the real, tough facts about our 890T.



**POWER &
EFFICIENCY**



**TOUGHNESS &
DURABILITY**



**SAFETY &
VISIBILITY**



**UPTIME &
MAINTENANCE**



**INTELLIGENCE
& CONTROL**



**COMFORT &
ERGONOMICS**

THIS IS **LIUGONG**



65+
YEARS
EST 1958



30+
PRODUCT LINES



12
GLOBAL R&D CENTERS



30+
GLOBAL
OFFICES



16,000+
EMPLOYEES



20+
GLOBAL MANUFACTURING
FACILITIES

A RANGE YOU CAN TRUST.

In tough quarrying and mining environments, you can trust the 890T to deliver. With world-class components and smart technology, our T-Series machines have been designed specifically for mining conditions and delivering maximum uptime, higher productivity and lower operating costs, for a better return on investment.



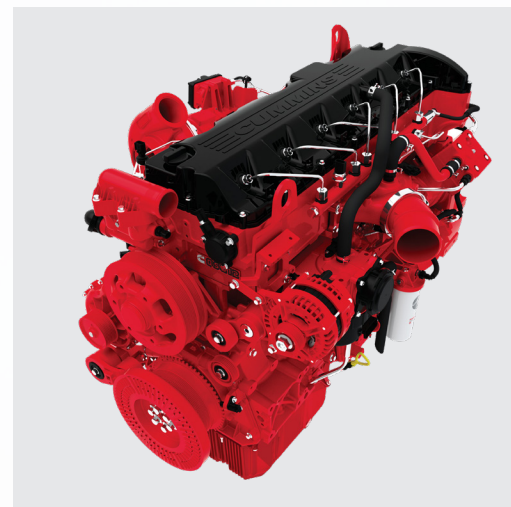
LET'S TAKE A CLOSER LOOK...



POWER THAT DRIVES PRODUCTIVITY

Advanced powershift transmission and intelligent fuel management system deliver uncompromised power with enhanced efficiency.

- ▶ Cummins X12 EU Stage V engine delivers robust power and superior fuel economy.
- ▶ Programmable auto-idle shutdown feature reduces fuel consumption during idle periods.
- ▶ Engine braking provides auxiliary braking on long or steep descents to reduce the risk of engine overspeeding.
- ▶ ZF powershift transmission provides faster acceleration and cycle times.
- ▶ The full-variable hydraulic system integrates load-sensing and constant-power control delivers superior hydraulic performance, significantly reducing energy loss to boost fuel efficiency and productivity.
- ▶ Automatic temperature-controlled, reversible hydraulic fan adjusts its speed based on ambient temperature and cooling demand, improving engine efficiency and reducing fuel consumption.



TOUGHER BY DESIGN

Engineered for extreme conditions, 890T's heavy-duty components maximize reliability and extend machine life.

- ▶ ZF heavy-duty wet axle is engineered to handle heavy loads with ease even on the most rugged terrain.
- ▶ Highly durable chassis frame is built tough and rigorously tested to withstand the most extreme environments.
- ▶ Reinforced boom structure provides enhanced durability for heavy-duty operations.
- ▶ High-strength bucket delivers powerful performance and an extended service life.



ENHANCED PROTECTION, SUPERIOR VISIBILITY

LiuGong prioritises operator safety and visibility to improve awareness and reduce risks on-site.

- ▶ 120° front visibility provides excellent field of view to the front of machine.
- ▶ Optional all-round lighting delivers exceptional visibility for night operations and low-light conditions.
- ▶ Electric adjustable external rearview mirrors with integrated blind spot mirrors ensure optimal side and rear visibility in any job site conditions.
- ▶ Full LED work lights are standard-fitted for enhanced night-time visibility.
- ▶ 360° panoramic view system provides operators with a real-time, all-around view of surroundings, eliminating blind spots.
- ▶ Ergonomically-designed orange steps and handrails safeguard the operator during access, exit and maintenance.



BUILT TO LAST, EASY TO MAINTAIN

To maximize your productive hours, we've made the New 890T even easier to maintain and surrounded it with service back-up and support to make every productive second count.

- ▶ Electric lift tilt-back engine hood provides quick and easy access to both the engine compartment and routine service points for easy maintenance.
- ▶ Centralized greasing system extends bearing life and reduces maintenance time and costs by delivering precise amounts of grease to each bearing at regular intervals.
- ▶ Fluid drains provide environmentally friendly drainage capability and are grouped together for convenient serviceability.
- ▶ Under hood lights facilitate component inspection and maintenance in low-light conditions.
- ▶ Battery master switch is optimally positioned below the cab access ladder for easy operation when entering or exiting the cab.
- ▶ Easy to replace cab filters accessed via secondary access steps.



INTELLIGENT PERFORMANCE, DESIGNED TO WORK SMARTER

Smart control systems ensure precision, efficiency, and adaptability across different applications.

- ▶ Graphical display integrated multiple functions and parameter settings facilitates the machine to handle various applications.
- ▶ Automatic boom height kick-out and bucket leveling can be easily activated with a single touch in the cab.
- ▶ Electric quick coupler enables operators to change attachments in seconds from the cab, enhancing safety and productivity.
- ▶ One-touch engine start/stop allows for effortless operation with a single touch.
- ▶ LiuGong payload system delivers real-time load measurement, optimizing operational efficiency for optimal haulage cost control.



BUILT AROUND YOU

LiuGong machines are designed with the operator at the heart, ensuring all-day comfort and convenience.

- ▶ Pressurized, ROPS/FOPS certified cab is spacious, quiet, and engineered for all-day comfort with ergonomic, intuitive controls.
- ▶ Full LCD instrument panel features a precise, intuitive interface, and user-friendly design, ensuring that all critical parameters are clearly visible at a glance.
- ▶ Advanced climate control system with 12 all-around vents and intelligent temperature control ensures an optimal operating temperature in all conditions.
- ▶ Standard telescopic & tiltable steering column and ergonomic armrest accommodate various operating habits to reduce fatigue.
- ▶ Air suspension seat with adjustable armrests, headrest and lumbar support features electric heating as standard and ventilation & heating functions to further enhance comfort.



890T SPECIFICATIONS

Operating Weight	31,500 - 35,300 kg
Operating weight includes the machine weight with standard work device, no additional equipment or accessories, full fuel and DEF tank, all fluids at required level and an operator 75 kg.	
Bucket Capacities	4.0 - 9.0 m³

ENGINE	
Emission Regulation	EU Stage V
Make	Cummins
Model	X12
Engine Output - Max.Gross (SAE J1995 / ISO 14396)	287 kW @ 1,800 rpm
Engine Output - Max.Net (SAE J1349 / ISO 9249)	273 kW @ 1,800 rpm
Peak Torque	1,862 N.m @ 1,400 rpm
Displacement	11.8 L
Number of Cylinders	6
Aspiration	Turbocharged & Air-to-air intercooled

TRANSMISSION	
Transmission Type	Countershaft, power shift
Torque Converter	Single stage, three elements
Max. Travel Speed Forward / Reverse (29.5R25 tires)	41.9 / 27.3, 41.9 (Lock-up) / - km/h
Number of Speed, fwd	5
Number of Speed, rev	3

HYDRAULIC SYSTEM	
Main Pump Type	Piston
Main Relief Pressure	31.5 MPa
Raise	6.0 s
Dump Time	1.6 s
Float Down Time	3.4 s
Hydraulic Cycle Time	11 s
Controls	Electric proportional joystick

STEERING	
Steering Hydraulic System Type	Load sensing steering
Steering Relief Pressure	25 Mpa
Maximum Articulation	± 38°
Smallest Turn (over tires)	6,958 mm

BRAKES	
Service Brake Type	Wet discs brake
Service Brake Actuation	Full hydraulic
Parking Brake Type	Caliper discs brake
Parking Brake Actuation	Electro-hydraulic release

ELECTRICAL SYSTEM	
Voltage	24 V
Batteries	2X12 V
Battery Capacity	200 Ah
Cold Cranking Capacity, approx	1,100 CCA
Reserve Capacity	430 min
Alternator Rating	3,080 / 110 W/A
Starter Motor Output	7.5 kW

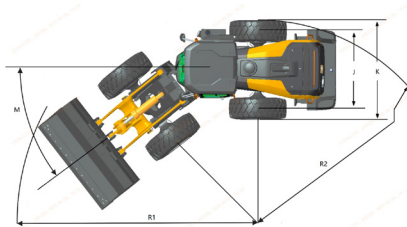
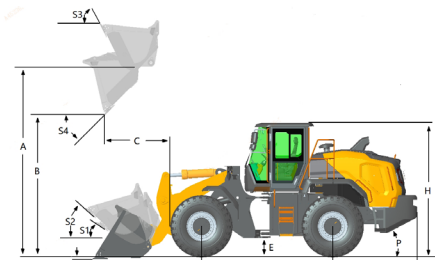
AXLES	
Model	ZF MT-L wet axle
Differential Front Type	100% differential lock
Differential Rear Type	Conventional
Axle Oscillation	±11°

SERVICE REFILL CAPACITIES	
Fuel Tank	459 L
Engine Oil	35 L
Cooling System	52 L
Hydraulic System	343 L
Transmission and Torque Converter	62 L
DEF Tank	50 L
Axles, Front/Rear	60 / 60 L

SOUND & ENVIRONMENT	
Sound Level in Cab According to ISO 6396-2008/EN ISO 3744-1995 - Travel Mode	72 dB(A)
Sound Level in Cab According to ISO 6396-2008/EN ISO 3744-1996 - Stationary Work Cycle Mode	72 dB(A)
External Sound Level According to ISO 6395-2008- Travel Mode	109 dB(A)
External Sound Level According to ISO 6395-2008- Stationary Work Cycle Mode	109 dB(A)
Ventilation	1.3 m³/min
Heating Capacity	7.5 kW
Air Conditioning	5.3 kW

STANDARD LIFT LOADER ARM PERFORMANCE WITH BUCKET AT 5.4 m³ WITH BOLT-ON TEETH & SPACER AND OPERATING WEIGHT AT 31,750 kg.	
Tipping Load - Straight according to ISO 14397-1:2007	24,600 kg
Tipping Load – Full Turn according to ISO 14397-1:2007	21,150 kg
Bucket Breakout Force	270 kN
A Maximum Hinge Pin Height	4,609 mm
B Dump Clearance at Full Height Discharge	3,332 mm
C Dump Reach at Full Height Discharge	1,433 mm
D Maximum Digging Depth, Bucket Level	127 mm
S ₁ Bucket Rollback at Ground Level	45°
S ₂ Bucket Rollback at Carry	49°
S ₃ Bucket Rollback at Maximum Height	60°
S ₄ Maximum Dump Angle at Full Height	45°

STANDARD LIFT LOADER ARM DIMENSIONS	
E Ground Clearance	442 mm
G Wheelbase	3,700 mm
H Cab Height	3,790 mm
J Wheel Tread	2,420 mm
K Width Over Tires	3,170 mm
L Length with Bucket Down	9,637 mm
M Turn Angle, Either Side	38°
P Rear Angle of Departure	25°
R ₁ Turning Radius, Bucket Carry	7,832 mm
R ₂ Turning Radius, Outside of Tire	6,958 mm
W Width over Bucket	3,532 mm



TIRES									
Choosing the right tyres for your machine will become a key competitive advantage to achieve outstanding performance. Through close engineering and development cooperation with renowned and carefully selected suppliers, LiuGong can offer full range of tyres specially tailored for wheel loader.									
Code	Application	Patterns	Size	PR / *	Tube Type	Width	Overall Diameter	Tread Depth	Load Capacity
L3	• in sand operation • in all kind of load/carry operation • The L3-tread is not as open as L2 and has consequently less self-cleansing compared with an L2 tyre		29.5R25	**	/	750 mm	1,875 mm	40 mm	22,400 kg
L4	• in sand operation • in all kind of load/carry operation • Wider and deeper tread than L3, offering better wear resistance and longer service life.		29.5R25	**	/	770 mm	1,856 mm	59 mm	22,400 kg
L5	• in very aggressive material where good protection against cut damages is demanded, e.g. in quarries or mines		29.5R25	**	/	775 mm	1,950 mm	100 mm	22,400 kg

Note: The radial tire-load bearing capacity is indicated by the number of stars (*). More stars, greater radial tire-load bearing capacity. For the specific radial tire sizes listed in the table above, 2 stars (**) represents the maximum radial tire-load bearing capacity.

Tire	Operating Weight, kg	Tipping Load- Full Turn, kg		
		Standard Arm	Long Arm	Extra Long Arm
L3	-	-	-	-
L4	+476	+320	+290	+277
L5	+860	+575	+525	+500

ATTACHMENTS

LiuGong attachments with pin-on or quick-coupler ensure high quality as the machine. Integrated design of the whole system makes a perfect match to achieve the superior productivity. For more information on other available attachments, please contact your LiuGong dealer for details.

890T	5-Speed Transmission, L3 Tires		5.0 m³ Bucket (BOT, BOS)	5.4 m³ Bucket (BOCE)	5.4 m³ Bucket (BOT, BOS)	5.7 m³ Bucket (BOT, BOS)	6.2 m³ Bucket (BOCE)	6.2 m³ Bucket (BOT, BOS)
Bucket	Bucket Capacity	m³	5.0	5.4	5.4	5.7	6.2	6.2
	Bucket Type	/	GP	GP	GP	GP	GP	GP
	Bucket Mounting	/	PIN-ON	PIN-ON	PIN-ON	PIN-ON	PIN-ON	PIN-ON
	GET Type	/	BOT, BOS	BOCE	BOT, BOS	BOT, BOS	BOCE	BOT, BOS
	Bucket Weight	kg	2,879	2,870	3,000	3,041	3,054	3,144
Standard Arm	Operating Weight	kg	31,629	31,620	31,750	31,791	31,804	31,894
	Max. Breakout Force	kN	276	270	270	250	238	238
	Tipping Load - Straight	kg	24,622	24,730	24,600	24,411	24,300	24,220
	Tipping Load - Full Turn	kg	21,186	21,280	21,150	20,982	20,884	20,803
	Max.Bucket Hinge Pin Height	mm	4,609	4,609	4,609	4,609	4,609	4,609
	Dump Clearance	mm	3,364	3,332	3,332	3,264	3,213	3,213
	Dump Reach	mm	1,401	1,433	1,433	1,501	1,552	1,552
	Overall Length	mm	9,592	9,436	9,637	9,734	9,603	9,803
	Overall Width	mm	3,542	3,450	3,532	3,542	3,450	3,542
	Overall Height	mm	3,790	3,790	3,790	3,790	3,790	3,790
	Turning Radius, Outside of Bucket	mm	7,822	7,745	7,832	7,861	7,793	7,883
Long Arm	Operating Weight	kg	31,879	31,870	32,000	32,041	32,054	32,144
	Max. Breakout Force	kN	311	301	300	281	268	268
	Tipping Load - Straight	kg	22,962	22,671	22,336	22,699	22,237	22,318
	Tipping Load - Full Turn	kg	19,746	19,497	19,192	19,499	19,100	19,158
	Max.Bucket Hinge Pin Height	mm	4,779	4,779	4,779	4,779	4,779	4,779
	Dump Clearance	mm	3,534	3,502	3,502	3,434	3,383	3,383
	Dump Reach	mm	1,456	1,488	1,488	1,556	1,607	1,607
	Overall Length	mm	9,787	9,631	9,832	9,929	9,798	9,998
	Overall Width	mm	3,542	3,450	3,532	3,542	3,450	3,542
	Overall Height	mm	3,790	3,790	3,790	3,790	3,790	3,790
	Turning Radius, Outside of Bucket	mm	7,903	7,826	7,913	7,942	7,874	7,964
Extra Long Arm	Operating Weight	kg	32,064	32,055	32,185	32,226	32,239	32,329
	Max. Breakout Force	kN	324	313	313	293	279	279
	Tipping Load - Straight	kg	21,503	21,579	21,256	21,300	21,207	21,180
	Tipping Load - Full Turn	kg	18,487	18,553	18,258	18,293	18,211	18,176
	Max.Bucket Hinge Pin Height	mm	5,079	5,079	5,079	5,079	5,079	5,079
	Dump Clearance	mm	3,834	3,802	3,802	3,734	3,683	3,683
	Dump Reach	mm	1,356	1,388	1,388	1,456	1,507	1,507
	Overall Length	mm	9,969	9,813	10,014	10,111	9,980	10,180
	Overall Width	mm	3,542	3,450	3,532	3,542	3,450	3,542
	Overall Height	mm	3,790	3,790	3,790	3,790	3,790	3,790
	Turning Radius, Outside of Bucket	mm	7,977	7,900	7,987	8,016	7,948	8,038

ATTACHMENTS

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890T	5-Speed Transmission, L3 Tires		Rock Bucket	Rock Bucket	Light Material Bucket	5.4 m³ Bucket (QC, BOT, BOS)
Bucket	Bucket Capacity	m³	5.2	5.2	9.0	5.4
	Bucket Type	/	Rock Bucket	Reinforced Rock Bucket	Light Material Bucket	GP
	Bucket Mounting	/	PIN-ON	PIN-ON	PIN-ON	QC
	GET Type	/	BOT	BOT	BOCE	BOT, BOS
	Bucket Weight	kg	3,241	3,778	4,192	3,388
Standard Arm	Operating Weight	kg	31,991	32,528	32,942	32,138
	Max. Breakout Force	kN	230	228	227	234
	Tipping Load - Straight	kg	24,045	23,508	24,390	23,137
	Tipping Load - Full Turn	kg	20,639	20,102	20,803	19,838
	Max.Bucket Hinge Pin Height	mm	4,609	4,609	4,609	4,609
	Dump Clearance	mm	3,173	3,173	3,175	3,194
	Dump Reach	mm	1,592	1,592	1,589	1,569
	Overall Length	mm	9,908	9,908	9,656	9,863
	Overall Width	mm	3,544	3,544	3,700	3,542
	Overall Height	mm	3,790	3,790	3,790	3,790
	Turning Radius, Outside of Bucket	mm	7,822	7,822	8,015	7,883
Long Arm	Operating Weight	kg	32,241	32,778	33,192	32,388
	Max. Breakout Force	kN	258	256	255	263
	Tipping Load - Straight	kg	22,073	21,578	22,616	21,246
	Tipping Load - Full Turn	kg	18,935	18,440	19,276	18,205
	Max.Bucket Hinge Pin Height	mm	4,779	4,779	4,779	4,779
	Dump Clearance	mm	3,343	3,343	3,345	3,364
	Dump Reach	mm	1,647	1,647	1,644	1,624
	Overall Length	mm	10,103	10,103	9,851	10,058
	Overall Width	mm	3,544	3,544	3,700	3,542
	Overall Height	mm	3,790	3,790	3,790	3,790
	Turning Radius, Outside of Bucket	mm	7,903	7,903	8,096	7,964
Extra Long Arm	Operating Weight	kg	32,426	32,963	33,377	32,573
	Max. Breakout Force	kN	269	267	266	274
	Tipping Load - Straight	kg	21,020	20,548	21,165	20,275
	Tipping Load - Full Turn	kg	18,027	17,555	18,035	17,369
	Max.Bucket Hinge Pin Height	mm	5,079	5,079	5,079	5,079
	Dump Clearance	mm	3,643	3,643	3,645	3,664
	Dump Reach	mm	1,547	1,547	1,544	1,524
	Overall Length	mm	10,285	10,285	10,033	10,240
	Overall Width	mm	3,544	3,544	3,700	3,542
	Overall Height	mm	3,790	3,790	3,790	3,790
	Turning Radius, Outside of Bucket	mm	7,977	7,977	8,170	8,038

STANDARD & OPTIONAL EQUIPMENT

ENGINE	
Cummins X12 EU Stage V Engine, output - Max. net power of 273 kW, air-to-air intercooled, 6 cylinders, 4 stroke	☒
High pressure common rail	☒
Exhaust emission control	☒
Intelligent Power Control (IPC)	☒
Hydraulically-driven reversible fan	☒
Grid heater	☒
Programmable auto engine idle stop	☒
Pre-fuel filter/water separator with electric fuel pump	☒
EFI (Electric Fuel Injection)	☒
ECM faults inspecting system	☒
Engine block heater	☒
Engine braking	☒
TRANSMISSION	
ZF Ergopower 5WG310 automatic power shift transmission, kick-down function, FNR, F5/R3	☒
ICCO (Intelligent Clutch Cut-Off)	☒
Transmission oil level sight gauge	☒
Secondary oil filter, sight glass	☒
Remote pressure taps for diagnostics	☒
Auto shifting mode by speed	☒
Neutral safety switch	☒
Electronic controlled parking brake	☒
AXLE	
ZF wet axle with front - 100% differential lock and rear - conventional	☒
Axle oil cooling	☐
Wet discs service brake system	☒
CHASSIS FRAME	
Spacious central articulation arrangement with conic bearing	☒
Articulation locking bar	☒
Tow hitch	☒
Rubber cushion articulation stops	☒

HYDRAULIC SYSTEM	
Two piston pumps with variable displacement. Hydraulic load-sensing according to demand	☒
Electric proportional controller	☒
Third valve and multipurpose lines	☒
Joystick steering	☐
Easy simultaneous operating of lift & tilt	☒
Boom height kick-out	☒
Bucket positioner	☒
Emergency boom lower via pilot accumulator	☒
Thermostat	☐
Ride control	☒
STEERING SYSTEM	
Load sensing system with flow amplification and steering priority	☒
Emergency steering system	☒
TYRE & RIM	
29.5R25**/L3 Radial tire	☒
Full fender	☒
See tires options	☐
Tire protective chain	☐
LINKAGE & ATTACHMENTS	
Z-bar linkage	☒
Bolt-on cutting edge	☐
Bolt-on teeth & spacer	☒
High/extra-high lift loader arms	☐
Electric quick coupler	☒
Parallel-lift linkage	☒
Rock bucket	☐
Light material bucket	☐
Slag bucket	☐
Grapple with aligned	☐
Pallet forks	☐

STANDARD & OPTIONAL EQUIPMENT

ELECTRIC SYSTEM	
Two front LED headlights with high & low beams and turn signal	☒
Four front, two rear LED headlights on top of cab	☒
Turn signals with flasher	☒
Seat belt indicator	☒
Batteries, free of maintenance	☒
24 V power outlet	☒
Electric horn	☒
License-plate bracket and light	☒
Rotating beacon / Multicolor flash light	☒
Backup alarm with white noise	☒
Front and rear windshield wiper	☒
Bluetooth radio/player with USB port	☒
Electric lift back-tilt hood	☒
Reversing warning light, orange/blue	☒
GAUGE GROUP	
Engine coolant temperature	☒
Transmission oil temperature	☒
Fuel level	☒
Hour meter	☒
Voltage	☒
Brake oil pressure	☒
DEF pump working indicator	☒
INDICATOR GROUP	
Air inlet heater	☒
Battery charging	☒
Intake air filter alert	☒
Parking brake applied	☒
Machine emergent stop	☒
Power cut-off	☒
Engine servicing	☒
Turning lights	☒
Engine starter running	☒
Beam of front light	☒
Boom supporting brackets	☒

CAB	
FOPS (ISO 3449) and ROPS (ISO 3471) certified cab	☒
Heated and ventilated air suspension seat with 2-inch 3-point seatbelt	☒
Electric heated, adjustable rear-view mirrors	☒
One interior & dual exterior rear-view mirrors, blind spot mirrors	☒
Telescopic & tiltable steering column	☒
Large front glass	☒
Cab with silicone oil damper	☒
Cab fresh air filter	☒
One-touch engine start/stop	☒
Air conditioner	☒
Lunch-box/cooler holder	☒
Cup holder	☒
Cab rear windshield defroster	☒
Front and rear sun visors	☒
Front windshield guarding	☐
All-round lighting	☐
360° panoramic view system	☒
360° surround view with obstacle warning	☐
Graphic display	☒
Safety hammer	☒
OTHERS	
Automatic central lubrication	☒
Parking wedge	☒
Rear light protective guard	☒
Chassis guard	☒
LiuGong payload system	☒
LiuGong iLink (LiuGong Telematics System)	☒
Fire extinguisher	☒
Coupler ready	☒
Remote battery jump posts	☒
Auto loading	☒
Rear bumper	☐
Hood protective guard	☐
Tire pressure monitoring	☐

Note: ☒ for standard equipment
☐ for optional equipment
LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.





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