

820T WHEEL LOADER

SERIES

Engine
Max. Gross Power
Operating Weight
Bucket Capacities

YANMAR 4TNV98CT 53.7 kW 6,800 - 7,180 kg 0.8 - 2.0 m³



CUSTOMER DRIVEN DESIGN...

For over 65 years, LiuGong has built machines that thrive in the toughest environments. The 820T, 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 820T.



POWER & EFFICIENCY



UPTIME & MAINTENANCE



TOUGHNESS & DURABILITY



INTELLIGENCE & CONTROL



SAFETY & VISIBILITY



COMFORT & ERGONOMICS

THIS IS LIUGONG



65+ YEARS



30+
PRODUCT LINES



GLOBAL R&D CENTERS





16,000+ EMPLOYEES



20+
GLOBAL MANUFACTURING
FACILITIES

A RANGE YOU CAN TRUST.

From municipal sanitation engineering, landscaping, agriculture, ranching and general construction applications, you can trust the 820T to deliver. With the power, performance and adaptability you need to take on the toughest challenges, our T-Series machines won't let you down.



LET'S TAKE A CLOSER LOOK....



POWER THAT DRIVES PRODUCTIVITY

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

- YANMAR EU Stage V engine delivers robust power and superior fuel efficiency.
- Hydrostatic drivetrain delivers higher transmission efficiency and saves more energy.
- Programmable auto-idle shutdown feature helps cut fuel consumption during idle operation.
- Advanced hydraulic system delivers optimum hydraulic performance, minizing energy loss while boosting fuel efficiency and productivity.
- Travel speed up to 40 km/h makes it faster to transfer from different jobsites.
- Adaptable to any application with a wide range of attachments that are quick and easy to swap.



TOUGHER BY DESIGN

Engineered to excel in the harshest conditions, 820T's dependable components maximize reliability and extend machine life.

- LiuGong wet axle delivers strong load-bearing capacity and high reliability even in the most demanding operating conditions.
- Highly durable chassis frame is built tough and rigorously tested to withstand the most extreme environments.
- Reinforced boom structure ensures enhanced durability.
- High-strength bucket offers a longer 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
- Optional all-round lighting delivers exceptional visibility for night operations and low-light conditions.
- Adjustable external rearview mirrors ensure optimal side and rear visibility in any job site conditions.
- Full LED work lights are standard-fitted for enhanced night-time visibility.
- The optional 360° panoramic view system provides operators with a real-time, all-around view of surroundings, eliminating
- Tergonomically-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 820T even easier to maintain and surrounded it with service back-up and support to make every productive second count.

- One-piece forward-tilt 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.
- Battery master switch is optimally positioned below the cab access ladder for easy operation when entering or exiting the cab.
- Emergency jump-start port makes maintenance easier.





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 a wide range of applications.
- Full LCD instrument panel with an intuitive interface provides clear visibility of all main parameters.
- Automatic boom height kick-out and bucket leveling fucntions 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.
- The optional LiuGong payload system delivers real-time load measurement, optimizing operational efficiency for optimal haulage cost control.



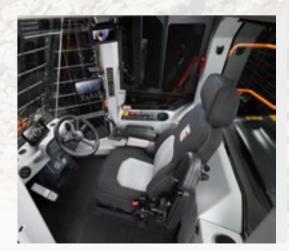


BUILT AROUND YOU

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.
- Advanced climate control system with 12 all-around vents and intelligent temperature control ensures an optimal operating temperature in all conditions.
- Standard tiltable steering column and ergonomic armrest accommodate various operating habits to reduce fatigue.
- Heated air suspension seat with high back, electric waist adjustment reduces operator fatigue.





820T SPECIFICATIONS

Operating Weight	6,800 - 7,180 kg
Operating weight includes the machine weight with device, no additional equipment or accessories, ful and all fluids at required level and an operator 75 kg	I fuel, DEF tank

Bucket Capacity	0.8 - 2.0 m ³

ENGINE	
Emission Regulation	EU Stage V
Make	YANMAR
Model	4TNV98CT
Engine Output - Max.Gross (SAE J1995 / ISO 14396)	53.7 kW @ 2,000 rpm
Engine Output - Max.Net (SAE J1349 / ISO 9249)	48.9 kW @ 2,000 rpm
Peak Torque	283 - 308 N·m @ 1,365 rpm
Displacement	3.3 L
Number of Cylinders	4
Aspiration	Turbocharged & Charge air cooling

TRANSMISSION	
Transmission Type	Hydrostatic transmission gearbox,countershaft powershift
Max. Travel Speed Forward / Reverse (405/70R20 tires)	40 / 16 km/h
Number of Speed, fwd	2
Number of Speed, rev	1

HYDRAULIC SYSTEM	
Main Pump Type	Piston
Main Relief Pressure	23.5 MPa
Raise	5.4 s
Dump Time	1.1 s
Float Down Time	3.5 s
Hydraulic Cycle Time	10 s
Controls	Joystick

LiuGong (Wet type)-AWL200
Liddong (Wet type)-AWL200
100% Differential lock
100% Differential lock
±8°

STEERING	
Steering Hydraulic System Type	Large displacement steering
Steering Relief Pressure	19 Mpa
Maximum Articulation	±38°
Smallest Turn (over tires)	3,750 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

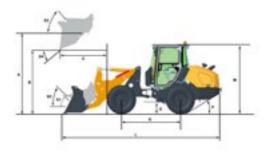
ELECTRICAL SYSTEM	
Voltage	12 V
Batteries	12 V
Battery Capacity	120 Ah
Cold Cranking Capacity, approx	850 CCA
Reserve Capacity	230 min
Alternator Rating	960 W / 80 Ah
Starter Motor Output	3 kW

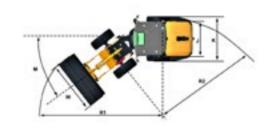
SOUND & ENVIRONMENT	
Sound level in cab according to ISO 6396- 2008/EN ISO 3744-1995 - Travel mode	70 dB(A)
Sound level in cab according to ISO 6396- 2008/EN ISO 3744-1996 - Stationary work cycle mode	70 dB(A)
External sound level according to ISO 6395-2008- Travel mode	101 dB(A)
External sound level according to ISO 6395- 2008- Stationary work cycle mode	100 dB(A)
Ventilation	850 m³/min
Heating capacity	8 kW
Air conditioning	4.8 kW

SERVICE REFILL CAPACITIES	
Fuel Tank	75 L
Engine Oil	4.5 L
Cooling System	4.5 L
Hydraulic System	65 L
Transmission	4 L
Axles, Front/Rear	8.6 L / 8.6 L

STANDARD LIFT LOADER ARM PERFORMANCE WITH STANDARD BUCKET AT 1.2 m³ (QC) WITH BOLT-ON CUTTING EDGE AND OPERATING WEIGHT AT 6,800 kg.	
Tipping Load - Straight according to ISO 14397-1:2007	4,480 kg
Tipping Load – Full Turn according to ISO 14397-1:2007	3,680 kg
Bucket Breakout Force	66 kN
A Maximum Hinge Pin Height	3,408 mm
B Dump Clearance at Full Height Discharge	2,615 mm
C Dump Reach at Full Height Discharge	875 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°

STANDARD LIFT LOADER ARM 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	1,930 mm
L Length with Bucket Down	5,833 mm
M Turn Angle, Either Side	38°
P Rear Angle of Departure	30°
R ₁ Turning Radius, Bucket Carry	4,731 mm
R ₂ Turning Radius, Outside of Tire	3,750 mm
W Width over Bucket	2,225 mm





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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
GLR15	 The large-angle block pattern delivers excellent traction and handling; 		405/70R20) /	/	400 mm	1,070 mm	20 mm	3,875 kg
	 The horizontal wide- groove block pattern ensures excellent self-cleaning performance and superior mobility on soft, sandy terrain; 								
	 Featuring a reinforced carcass and anti-scratch sidewall, the tires provide enhanced puncture and scratch resistance, making them suitable for all road conditions. 								

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.

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.

Bucket Type	820T	HST 202 Transmission, GLR15 Tires		0.8 m³ Bucket (BOCE)	1.2 m ³ Bucket (BOCE)	1.5 m³ Bucket (BOCE)
Bucket Bucket Mounting	Bucket	Bucket Capacity	m³	0.8	1.2	1.5
CET Type		Bucket Type	/	GP	GP	GP
Bucket Weight kg 705 500 550		Bucket Mounting	/	QC	QC	QC
Operating Weight kg 7,025 6,800 6,880		GET Type	/	BOCE	BOCE	BOCE
Max. Breakout Force kN 70 66 56		Bucket Weight	kg	705	500	550
Max. Breakout Force kN 70 66 56						
Standard Arm Tipping Load - Straight kg 4,133 4,480 4,400 Tipping Load - Full Turn kg 3,700 3,680 3,600 Max.Bucket Hinge Pin Height mm 3,408 3,408 3,408 Dump Clearance mm 2,642 2,615 2,750 Dump Reach mm 826 875 992 Overall Length mm 5,915 5,833 6,023 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520 Turning Radius, Outside of Bucket mm 4,694 4,731 4,819 Max. Breakout Force kN 63 59 50 Tipping Load - Straight kg 7,180 7,080 7,080 Max. Breakout Force kN 63 59 50 Tipping Load - Straight kg 3,473 3,770 3,680 Max. Bucket Hinge Pin Height mm 3,573 3,573 3,573		Operating Weight	kg	7,025	6,800	6,880
Tipping Load - Full Turn kg 3,700 3,680 3,600		Max. Breakout Force	kN	70	66	56
Max.Bucket Hinge Pin Height mm 3,408 3,408 3,408 3,408		Tipping Load - Straight	kg	4,133	4,480	4,400
Standard Arm Dump Clearance mm 2,642 2,615 2,750 Dump Reach mm 826 875 992 Overall Length mm 5,915 5,833 6,023 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520 Turning Radius, Outside of Bucket mm 4,694 4,731 4,819 Operating Weight kg 7,180 7,080 7,080 Max. Breakout Force kN 63 59 50 Tipping Load - Straight kg 3,473 3,770 3,680 Tipping Load - Full Turn kg 2,800 2,973 2,890 Max. Bucket Hinge Pin Height mm 3,573 3,573 3,573 Long Arm Dump Clearance mm 2,807 2,830 2,695 Dump Reach mm 926 1,016 1,133 Overall Width mm 6,175 6,095 6,285		Tipping Load - Full Turn	kg	3,700	3,680	3,600
Dump Clearance mm 2,642 2,615 2,750		Max.Bucket Hinge Pin Height	mm	3,408	3,408	3,408
Dump Reach mm 826 875 992 Overall Length mm 5,915 5,833 6,023 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520 Turning Radius, Outside of Bucket mm 4,694 4,731 4,819 Operating Weight kg 7,180 7,080 7,080 Max. Breakout Force kN 63 59 50 Tipping Load - Straight kg 3,473 3,770 3,680 Tipping Load - Full Turn kg 2,800 2,973 2,890 Max.Bucket Hinge Pin Height mm 3,573 3,573 3,573 Long Arm Dump Clearance mm 2,807 2,830 2,695 Dump Reach mm 926 1,016 1,133 Overall Length mm 6,175 6,095 6,285 Overall Width mm 1,980 2,225 2,225		Dump Clearance	mm	2,642	2,615	2,750
Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520 Turning Radius, Outside of Bucket mm 4,694 4,731 4,819 Max. Breakout Force kN 63 59 50 Tipping Load - Straight kg 3,473 3,770 3,680 Tipping Load - Full Turn kg 2,800 2,973 2,890 Max.Bucket Hinge Pin Height mm 3,573 3,573 3,573 Long Arm Dump Clearance mm 2,807 2,830 2,695 Dump Reach mm 926 1,016 1,133 Overall Length mm 6,175 6,095 6,285 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520		Dump Reach	mm	826	875	992
Overall Height mm 2,520 2,520 2,520 Turning Radius, Outside of Bucket mm 4,694 4,731 4,819 Operating Weight kg 7,180 7,080 7,080 Max. Breakout Force kN 63 59 50 Tipping Load - Straight kg 3,473 3,770 3,680 Tipping Load - Full Turn kg 2,800 2,973 2,890 Max.Bucket Hinge Pin Height mm 3,573 3,573 3,573 Long Arm Dump Clearance mm 2,807 2,830 2,695 Dump Reach mm 926 1,016 1,133 Overall Length mm 6,175 6,095 6,285 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520		Overall Length	mm	5,915	5,833	6,023
Turning Radius, Outside of Bucket mm 4,694 4,731 4,819		Overall Width	mm	1,980	2,225	2,225
Operating Weight kg 7,180 7,080 7,080		Overall Height	mm	2,520	2,520	2,520
Max. Breakout Force kN 63 59 50 Tipping Load - Straight kg 3,473 3,770 3,680 Tipping Load - Full Turn kg 2,800 2,973 2,890 Max.Bucket Hinge Pin Height mm 3,573 3,573 3,573 Long Arm Dump Clearance mm 2,807 2,830 2,695 Dump Reach mm 926 1,016 1,133 Overall Length mm 6,175 6,095 6,285 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520		Turning Radius, Outside of Bucket	mm	4,694	4,731	4,819
Max. Breakout Force kN 63 59 50 Tipping Load - Straight kg 3,473 3,770 3,680 Tipping Load - Full Turn kg 2,800 2,973 2,890 Max.Bucket Hinge Pin Height mm 3,573 3,573 3,573 Long Arm Dump Clearance mm 2,807 2,830 2,695 Dump Reach mm 926 1,016 1,133 Overall Length mm 6,175 6,095 6,285 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520						
Tipping Load - Straight kg 3,473 3,770 3,680 Tipping Load - Full Turn kg 2,800 2,973 2,890 Max.Bucket Hinge Pin Height mm 3,573 3,573 3,573 Long Arm Dump Clearance mm 2,807 2,830 2,695 Dump Reach mm 926 1,016 1,133 Overall Length mm 6,175 6,095 6,285 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520		Operating Weight	kg	7,180	7,080	7,080
Tipping Load - Full Turn kg 2,800 2,973 2,890		Max. Breakout Force	kN	63	59	50
Max.Bucket Hinge Pin Height mm 3,573 3,573 3,573 Long Arm Dump Clearance mm 2,807 2,830 2,695 Dump Reach mm 926 1,016 1,133 Overall Length mm 6,175 6,095 6,285 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520		Tipping Load - Straight	kg	3,473	3,770	3,680
Long Arm Dump Clearance mm 2,807 2,830 2,695 Dump Reach mm 926 1,016 1,133 Overall Length mm 6,175 6,095 6,285 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520		Tipping Load - Full Turn	kg	2,800	2,973	2,890
Dump Reach mm 926 1,016 1,133 Overall Length mm 6,175 6,095 6,285 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520	Long Arm	Max.Bucket Hinge Pin Height	mm	3,573	3,573	3,573
Overall Length mm 6,175 6,095 6,285 Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520		Dump Clearance	mm	2,807	2,830	2,695
Overall Width mm 1,980 2,225 2,225 Overall Height mm 2,520 2,520 2,520		Dump Reach	mm	926	1,016	1,133
Overall Height mm 2,520 2,520 2,520		Overall Length	mm	6,175	6,095	6,285
		Overall Width	mm	1,980	2,225	2,225
Turning Radius, Outside of Bucket mm 4,815 4,848 4,936		Overall Height	mm	2,520	2,520	2,520
		Turning Radius, Outside of Bucket	mm	4,815	4,848	4,936

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STANDARD & OPTIONAL EQUIPMENT

ENGINE	HYDRAULIC SYSTEM
YANMAR 4TNV98CT EU Stage V engine, output - Max. net power of 48.9 kW, charge air cooling, 4	Two piston pumps Hydraulic load-sen
cylinders, 4 stroke	 Single joystick con
Exhaust emission control	 Third valve and mu
DC air filter, fuel filter	 4-spool hydraulics
Suction fan	 Easy simultaneous
Grid heater	 Boom height kick-
Programmable auto engine idle stop	 Bucket positioner
Pre-fuel filter/water separator with electric fuel pump	Plug at the port of
EFI (Electric Fuel Injection)	pressure check
ECM faults inspecting system	Emergency boom
Engine block heater	Ride control
Oil tank radiator	Load holding valve
	STEERING SYSTEM
TRANSMISSION	Load sensing syste
LiuGong HST 202 countershaft power shift	steering priority
transmission	 Emergency steerin
CCO (Clutch Cut-Off)	
Transmission oil level sight gauge	 CHASSIS FRAME
Secondary oil filter, sight glass	 Spacious central a
Remote pressure taps for diagnostics	 Articulation locking
Auto shifting mode by speed	Tow hitch
Neutral safety switch	 Rubber cushion ar
Electronic controlled parking brake	
	LINKAGE & ATTACHN
AXLE	Z-bar linkage
LiuGong wet axle with 100% differential lock (Front & rear)	 TP linkage
Limited slip differentials	Bolt-on cutting ed
Wet discs service brake system	Bolt-on teeth
	Bolt-on teeth and
	High lift loader arm
TYRE & RIM	Electric quick coup
405/70R20 tires	 Parallel-lift linkage
Full fender	 Grapple with aligne
See tires options	Pallet forks
Tire protective chain	Snow blade

Two piston pumps with variable displacement. Hydraulic load-sensing according to demand	
Single joystick control	
Third valve and multipurpose lines	
4-spool hydraulics for dual auxiliary function	
Easy simultaneous operating of lift & tilt	
Boom height kick-out	
Bucket positioner	
Plug at the port of bucket and boom cylinder for pressure check	
Emergency boom lower via pilot accumulator	
Ride control	
Load holding valve	
STEERING SYSTEM	
Load sensing system with flow amplification and steering priority	
Emergency steering system	
Spacious central articulation arrangement with conic bearing	
Articulation locking bar	
Tow hitch	
Rubber cushion articulation stops	
LINKAGE & ATTACHMENTS	
Z-bar linkage	
TP linkage	
Bolt-on cutting edge	
Bolt-on teeth	
Bolt-on teeth and spacer	一
High lift loader arms	卡
Electric quick coupler	
Parallel-lift linkage	
Grapple with aligned or crossed teeth	
Pallet forks	
Snow blade	
Curanar	

Sweeper

STANDARD & OPTIONAL EQUIPMENT

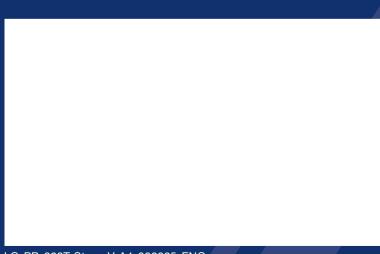
ELECTRIC SYSTEM	CAB		
Two front LED headlights with high & low beams and turn signal	FOPS (ISO 3449) and ROPS (ISO 3471) certified		
Four front, two rear LED headlights on top of cab	Heated air suspension seat with 3 inch 2-point seatbelt		
Turn signals with flasher	Electric heated rear-view mirrors		
Seat belt indicator	One interior & dual exterior rear-view mirrors		
Batteries, free of maintenance	Tiltable steering column		
12 V power outlet	Large front glass		
Electric horn	Rubber cab mounts		
License-plate bracket and light	Cab fresh air filter		
Rotating beacon / Multicolor flash light	One-touch engine start/stop		
Backup alarm with white noise	Air conditioner		
Front and rear windshield wiper	Lunch-box/cooler holder		
Bluetooth radio/player with USB port	Cup holder		
Reversing warning light, orange/blue	Cab rear windshield defroster		
<u>'</u>	Front and rear sun visors		
	Front windshield guarding		
GAUGE GROUP	All-round lighting		
Engine coolant temperature	360° panoramic view system		
Transmission oil temperature	Graphic display		
Fuel level	Safety hammer		
Hour meter			
Voltage			
Brake oil pressure	OTHERS		
	Parking wedge		
NDICATOR GROUP	Rear bumper		
Air inlet heater	Rear light protective guard		
Battery charging	Chassis guard		
ntake air filter alert	LiuGong payload system		
Parking brake applied	LiuGong iLink (LiuGong Telematics System)		
Machine emergent stop	Fire extinguisher		
Power cut-off	Remote battery jump posts		
Engine servicing	Auto loading		
Furning lights	Coupler ready		
Engine starter running	Hood protective guard		
Ream of front light	Tire pressure monitoring		

Note: for standard equipment

for optional equipment

Specifications and designs are subject to change without notice. Machines shown may include 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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