

848T WHEEL LOADER

T-SERIES

Engine	Cummins B6.7
Max. Gross Power	145 kW
Operating Weight	16,054 - 19,858 kg
Bucket Capacities	2.5 - 5.0 m ³



CUSTOMER DRIVEN DESIGN...

For over 65 years, LiuGong has built machines that thrive in the toughest environments. The 848T, 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 848T.



**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.

From aggregates, mixing plant, earthmoving, fertilizer, agriculture and municipal engineering, you can trust the 848T 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

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

- ▶ Cummins B6.7 EU Stage V engine delivers robust power and superior fuel economy.
- ▶ Programmable auto-idle shutdown feature reduces fuel consumption during idle periods.
- ▶ 4/5-speed powershift transmission enables faster acceleration and shorter cycle times. The optional 5-speed version features a lock-up torque converter for enhanced performance and efficiency.
- ▶ Close-center, variable-displacement hydraulic system ensures optimum performance, minimizing energy loss while boosting 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, 848T's heavy-duty components maximize reliability and extend machine life.

- ▶ LiuGong heavy-duty wet axle with limited-slip differentials 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.
- ▶ 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 848T 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 and headrest features electric heating as standard and ventilation & heating functions to further enhance comfort.



848T SPECIFICATIONS

Operating Weight	16,054 - 19,858 kg
Operating weight includes the machine weight with standard work device, no additional equipment or accessories, full fuel, DEF tank and all fluids at required level and an operator 75 kg.	
Bucket Capacity	2.5 - 5.0 m³

ENGINE	
Emission Regulation	EU Stage V
Make	Cummins
Model	B6.7
Engine Output - Max.Gross (SAE J1995 / ISO 14396)	145 kW @ 2,000 rpm
Engine Output - Max.Net (SAE J1349 / ISO 9249)	136 kW @ 2,000 rpm
Peak Torque	881 N.m @ 1,300 rpm
Displacement	6.7 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 (20.5R25 tires)	4-speed: 39 / 26.1 km/h Optional 5-speed: 40.5 / 29.5 km/h, 44 (Lock-up) /-
Number of Speed, fwd/rev	4 / 3 Optional 5-speed: 5 / 3

HYDRAULIC SYSTEM	
Main Pump Type	Piston
Main Relief Pressure	28 MPa
Raise	5.6 s
Dump Time	1.6 s
Float Down Time	3.3 s
Hydraulic Cycle Time	10.5 s
Controls	Joystick

AXLES	
Model	LiuGong (Wet type)-AWL700
Differential Front Type	Limited slip
Differential Rear Type	Limited slip
Axle Oscillation	±12°

STEERING	
Steering Hydraulic System Type	Large displacement steering
Steering Relief Pressure	22 Mpa
Maximum Articulation	±40°
Smallest Turn (over tires)	5,647 mm

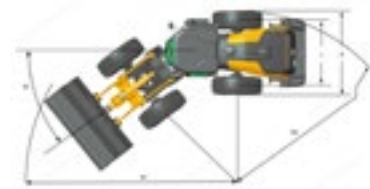
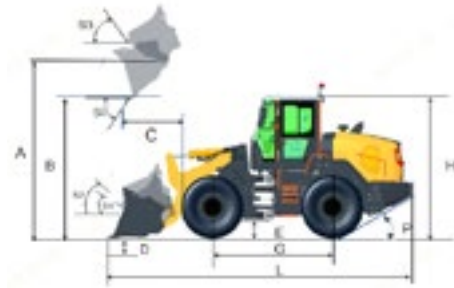
BRAKES	
Service Brake Type	Wet discs brake
Service Brake Actuation	Full hydraulic
Parking Brake Type	Drum (4-speed) / Caliper discs brake (5-speed)
Parking Brake Actuation	Electro-hydraulic release

ELECTRICAL SYSTEM	
Voltage	24 V
Batteries	2X12 V
Battery Capacity	120 Ah
Cold Cranking Capacity, approx	850 CCA
Reserve Capacity	224 min
Alternator Rating	1,680 W / 70 Ah
Starter Motor Output	7.8 kW

SOUND & ENVIRONMENT	
Sound level in cab according to ISO 6396-2008/EN ISO 3744-1995 - Travel mode	69 dB(A)
Sound level in cab according to ISO 6396-2008/EN ISO 3744-1996 - Stationary work cycle mode	69 dB(A)
External sound level according to ISO 6395-2008- Travel mode	105 dB(A)
External sound level according to ISO 6395-2008- Stationary work cycle mode	105 dB(A)
Ventilation	10 m³/min
Heating capacity	7.5 kW
Air conditioning	5.3 kW

SERVICE REFILL CAPACITIES	
Fuel Tank	240 L
Engine Oil	20 L
Cooling System	44 L
Hydraulic System	154 L
Transmission and Torque Converter	40 L
DEF Tank	35 L
Axles, Front/Rear	50 L / 48 L

STANDARD LIFT LOADER ARM PERFORMANCE WITH BUCKET AT 2.7 m³ (QC) WITH BOLT-ON CUTTING EDGE AND OPERATING WEIGHT AT 16,500 kg.	
Tipping Load - Straight according to ISO 14397-1:2007	11,530 kg
Tipping Load – Full Turn according to ISO 14397-1:2007	9,600 kg
Bucket Breakout Force	142 kN
A Maximum Hinge Pin Height	3,998 mm
B Dump Clearance at Full Height Discharge	2,848 mm
C Dump Reach at Full Height Discharge	1,207 mm
D Maximum Digging Depth, Bucket Level	109 mm
S ₁ Bucket Rollback at Ground Level	45°
S ₂ Bucket Rollback at Carry	49°
S ₃ Bucket Rollback at Maximum Height	62°
S ₄ Maximum Dump Angle at Full Height	45°



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		20.5R25	*	/	527 mm	1,480 mm	31 mm	9,500 kg
L5	in very aggressive material where good protection against cut damages is demanded, e.g. in quarries or mines		20.5R25	**	/	536 mm	1,530 mm	72 mm	+ 2,000 kg
Solid Tire	- Safe, durable, puncture-resistant, economical, maintenance-free, easy to operate - in generally smooth roads, short distance operation		20.5-25	/	Solid Tire	530 mm	1,490 mm	/	+ 4,00 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
L3	-	-	-
L5	+ 476	+ 280	+ 243
Solid Tire	+ 1,896	+ 1,116	+ 996

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.

848T	4-Speed Transmission, L3 Tires		2.5 m³ Bucket (BOCE)	2.7 m³ Bucket (BOT)	2.7 m³ Bucket (BOT, BOS)	3.5 m³ Bucket (BOCE)
Bucket	Bucket Capacity	m³	2.5	2.7	2.7	3.5
	Bucket Type	/	GP	GP	GP	GP
	Bucket Mounting	/	PIN-ON	PIN-ON	PIN-ON	PIN-ON
	GET Type	/	BOCE	BOT	BOT, BOS	BOCE
	Bucket Weight	kg	1,360	1,464	1,501	1,701
Standard Arm	Operating Weight	kg	16,054	16,158	16,195	16,395
	Max. Breakout Force	kN	167	166	166	130
	Tipping Load - Straight	kg	12,705	12,587	12,537	12,154
	Tipping Load - Full Turn	kg	10,661	10,543	10,494	10,139
	Max.Bucket Hinge Pin Height	mm	3,998	3,998	3,998	3,998
	Dump Clearance	mm	2,952	2,953	2,953	2,759
	Dump Reach	mm	1,062	1,060	1,060	1,255
	Overall Length	mm	7,762	7,760	7,920	8,035
	Overall Width	mm	2,700	2,920	2,970	2,920
	Overall Height	mm	3,382	3,382	3,382	3,382
	Turning Radius, Outside of Bucket	mm	6,203	6,302	6,371	6,379
Long Arm	Operating Weight	kg	16,863	16,967	17,004	17,204
	Max. Breakout Force	kN	149	149	149	116
	Tipping Load - Straight	kg	12,341	12,225	12,179	11,805
	Tipping Load - Full Turn	kg	10,162	10,045	10,000	9,652
	Max.Bucket Hinge Pin Height	mm	4,393	4,393	4,393	4,393
	Dump Clearance	mm	3,346	3,348	3,348	3,153
	Dump Reach	mm	1,049	1,048	1,048	1,242
	Overall Length	mm	8,120	8,118	8,276	8,393
	Overall Width	mm	2,700	2,920	2,970	2,920
	Overall Height	mm	3,382	3,382	3,382	3,382
	Turning Radius, Outside of Bucket	mm	6,348	6,445	6,516	6,528

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.

848T	4-Speed Transmission, L3 Tires		2.5 m³ Bucket (QC, BOT, BOS)	2.7 m³ Bucket (QC, BOCE)	2.7 m³ Bucket (QC, BOT, BOS)	3.0 m³ Bucket (QC, BOCE)	3.2 m³ Bucket (QC, BOCE)
Bucket	Bucket Capacity	m³	2.5	2.7	2.7	3.0	3.2
	Bucket Type	/	GP	GP	GP	GP	GP
	Bucket Mounting	/	QC	QC	QC	QC	QC
	GET Type	/	BOT, BOS	BOCE	BOCE	BOCE	BOCE
	Bucket Weight	kg	1,470	1,332	1,348	1,401	1,470
Standard Arm	Operating Weight	kg	16,437	16,500	16,516	16,569	16,638
	Max. Breakout Force	kN	136	142	135	122	121
	Tipping Load - Straight	kg	11,597	11,530	11,489	11,311	11,038
	Tipping Load - Full Turn	kg	9,667	9,600	9,561	9,403	9,162
	Max. Bucket Hinge Pin Height	mm	3,998	3,998	3,998	3,998	3,998
	Dump Clearance	mm	2,799	2,848	2,778	2,687	2,656
	Dump Reach	mm	1,210	1,207	1,186	1,277	1,257
	Overall Length	mm	8,135	7,924	8,159	8,129	8,162
	Overall Width	mm	2,750	2,920	2,970	2,920	2,920
	Overall Height	mm	3,382	3,382	3,382	3,382	3,382
	Turning Radius, Outside of Bucket	mm	6,334	6,360	6,443	6,410	6,424
Long Arm	Operating Weight	kg	17,246	17,309	17,325	17,378	17,447
	Max. Breakout Force	kN	122	123	121	109	108
	Tipping Load - Straight	kg	11,326	11,265	11,228	11,062	10,829
	Tipping Load - Full Turn	kg	9,650	9,600	9,530	9,003	8,795
	Max.Bucket Hinge Pin Height	mm	4,393	4,393	4,393	4,393	4,393
	Dump Clearance	mm	3,194	3,172	3,172	3,081	3,051
	Dump Reach	mm	1,198	1,174	1,174	1,265	1,245
	Overall Length	mm	8,491	8,354	8,512	8,483	8,513
	Overall Width	mm	2,750	2,920	2,970	2,920	2,920
	Overall Height	mm	3,382	3,382	3,382	3,382	3,382
	Turning Radius, Outside of Bucket	mm	6,487	6,521	6,595	6,561	6,577

STANDARD & OPTIONAL EQUIPMENT

ENGINE
Cummins B6.7 EU Stage V engine, output - Max. net power of 136 kW, air-to-air intercooled, 6 cylinders, 4 stroke
High pressure common rail
Exhaust emission control
Rotary air filter, fuel filter
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
Oil bath air filter ☐

TRANSMISSION
ZF Ergopower 4BP190 automatic power shift transmission, kick-down function, FNR, F4/R3
ZF Ergopower 5WG190 automatic power shift transmission, kick-down function, FNR, F5/R3 ☐
CCO (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

STEERING SYSTEM
Load sensing system with large displacement steering gear and steering priority
Emergency steering system

AXLE
LiuGong wet front & rear axle with limited slip differentials
Wet discs service brake system

HYDRAULIC SYSTEM
Single piston pump with variable displacement. Hydraulic load-sensing according to demand
Electric proportional controller
Third valve and multipurpose lines
4-spool hydraulics for dual auxiliary function ☐
Joystick steering ☐
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
Load holding valve ☐
Ride control

CHASSIS FRAME
Spacious central articulation arrangement with conic bearing
Articulation locking bar
Tow hitch
Rubber cushion articulation stops

TYRE & RIM
20.5R25*/L3 radial tire
Full fender
See tires options ☐
Tire protective chain ☐

LINKAGE & ATTACHMENTS
Z-bar linkage
Bolt-on cutting edge
Bolt-on teeth ☐
Bolt-on teeth and spacer ☐
High lift loader arms ☐
Electric quick coupler
Parallel-lift linkage ☐
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
DAB Radio ☐
Reversing warning light, orange/ blue
Electric lift back-tilt hood

GAUGE GROUP
Engine coolant temperature
Transmission oil temperature
Fuel level
Hour meter
Voltage
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

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 system ☐
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
Remote battery jump posts
Auto loading
OTA
Coupler ready
Rear bumper ☐
Hood protective guard ☐
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.



Guangxi LiuGong Machinery Co., Ltd.
No. 1 Liutai Road, Liuzhou, Guangxi 545007, PR China
T: +86 772 388 6124 E: overseas@liugong.com
www.liugong.com

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