LiuGong



Engine	Perkins 1104D-44TA
Gross Power	74.5 kW (100 hp / 101 ps) @ 2,200 rpm
Net Power	72 kW (97 hp / 98 ps) @ 2,200 rpm
Backhoe Digging Depth	4,440 mm
Operating Weight	8,400 kg

777A BACKHOE LOADER

TOUGH WORLD. TOUGH EQUIPMENT.

A POWERFUL VISION

Today, **LiuGong is a leader in China's construction equipment industry and is one of the fastest growing construction equipment companies in the world,** providing customers with quality, reliable support across a wide range of equipment.



INNOVATIVE FROM THE START

Innovation drives industries forward and LiuGong has been **driving innovation for nearly 60 years.**

An 110,000m² Global Research & Development Centre in Liuzhou, China is equipped with world-class technology and run by industry experts including around 1,000 R&D engineers.

In addition to the Liuzhou facility LiuGong operates world-class R&D facilities in Poland, India, the United States and the United Kingdom, supporting their global vision of excellence.

Emphasis on quality is reflected in LiuGong's Six Sigma quality methodology and compliance with ISO 9000 standards.

LiuGong has established joint venture partnerships with some of the industry's best known names including:

- German drivetrain components manufacturer **ZF Friedrichshafen AG**
- Finnish mining and aggregates processing equipment manufacturer **Metso**
- North American diesel engine manufacturer **Cummins**

WE ARE LIUGONG



*Product not available in North America

WHAT MAKES LIUGONG A LEADER?

LiuGong built China's first modern wheel loader and continues to embrace its commitment to innovation by combining decades of know-how with leading technology from the world's best component suppliers.

LiuGong has established centers of excellence around the globe to guarantee service and support and ensure their customers can work efficiently and productively. LiuGong manufacture at 20 plants and have offices across all major regions of the world including Europe, North America, South America, Asia-Pacific, India, the Middle-East, South Africa and Russia.

An extensive network of regional parts depots operate around the globe to ensure customers receive the support they have come to expect from LiuGong.

Innovation and manufacturing excellence for over 60 years

9,500+ Employees

20 Factories

13 Global offices

2,650+ Sales outlets

1,000+ R&D engineers

5 R&D facilities

12 Regional parts depots

Over 60 Years' experience

BUILT TO OUTLAST

SUMMARIZED BENEFITS

POWERFUL AND RELIABLE

Major parts are all from world class suppliers. Weichai engine, with EPA Tier 2 and E.U. stage II emission regulations, built for power, reliability and efficiency.
CARRARO alxes and HUSCO valves. Integrated frame makes the machine more stable when excavating .

OPERATOR COMFORT

Open cab provides the driver an open space. It provides storage spaces, easily cleaning floor mat, excellent visibility and other comforts.
Forward and backward are electrical control so that it is more easy to operate the machine.

HIGH EFFICIENCY

Self-leveling linkage to reduce the leveling time.
Four gears. High speed.
Small turning radius.

HIGHEST SAFETY STANDARDS

FOPS & ROPS cabin.
Vacuum tyre.
Hydraulic service brake.
Back-up buzzer.

DAILY MAINTENANCE

Maintenance ports for the hydraulic system on the 777A have been placed in convenient locations for quick inspection so you spend less time working on your machine, and have more time having your machine work for you.
Radiator for cooling water and hydraulic oil are located in the front of machine to be easy to maintain and check daily.







ALWAYS RELIABLE

We are committed to reducing your total cost of ownership and increasing your profits.

HIGH SPEED

Liugong 777A has four gears and the maximum speed could reach up to 36km/h which makes it easy to travel between different working places. The hydraulic flow could be controlled according the work situation by using the tortoise switch on the panel.

SELF LEVELING LINKAGE

The structure of Liugong BHL linkage is designed specially, and it can leveling the bucket automatically.

UNILATERAL BRAKE

Operator could choose to brake only one side of the axle for small turning radius. The minimum turning radius outside of front tire could be 3450mm.







OPERATOR COMFORT



Ergonomically Designed Cab with Great Visibility

Open cab ensures that nothing will obscure your vision.
Big windshield provides outstanding view, and you can see everything clearly in front of you.
Two large external rearview mirrors can be adjusted to see behind the machine when working in tight jobsites and travelling on the road.

Comfort Operating Condition

Fan for hot weather
Cigrarette lighter to light a cigrarette conveniently
Shock absorption seat for different weight person
Cup holder to hold cup.
Floor mat could keep the cab clean and it's comfort to step on it.

Convenient to Control

Forward and backward are electrically control so that only a very small operating force is needed.

All the buttons you generally used are easy to reach. Windshield wiper, work lights, park lights, differential lock, horn button and power cut off switch are all in convenient places.

PART OF YOUR PERFORMANCE



We know that confidence in your machine and those who support it is essential. So at LiuGong, we make sure we can always get what you need without delay, via our nine global parts depots, and the support of our network of local dealers across 130 countries worldwide.

LiuGong engineering sets high standards and all parts are rigorously tested to ensure they can meet the rigid quality specifications required for long lasting performance.

No matter where you are in the world, we can ensure fast and efficient parts support to keep you going.

READY FOR ANY JOB

LiuGong provides a range of purpose designed attachments, hitches and tools for your 777A to give you increased versatility for any job site. In-cab dial-in hydraulic flow settings through the display screen optimizes the attachment performance.



BUCKETS



SWEEPER



SHEAR



BREAKER

HIGHEST SAFETY STANDARD

STATICAL SAFETY
FOPS&ROPS open cab provides a safety operating environment.
Ant slip stairs and sandpaper are designed improve safety while getting in and out.
Backhoe lock prevents the working excavating unit from droping after a long time parking.
Lock function on support legs protects the machine from droping when the engine off.

DRIVING SAFETY
The maintenance free front axle has an oscillation angle of ±11 degree which can keep the backhoe loader always upright , so the machine is hard to fall over even on the tough road.
Vaccum tyre won't loss air soon when it is punctured because high air pressure will push the wound together., and your vehicle won't loose control.
Overheating and transmission pressure alarm will let the operator notice that the abnormal state of the machine.

RELIABLE BRAKE SYSTEM
Hydralic service brake is sensitive, reliable and free to maintain.
Brakes automatically change to double side brakes when in fourth gear to help avoid overturns and ensures safety at high speeds.











COMPLETE CUSTOMER CARE

CONVENIENT INSPECTION
Hydraulic oil inspection to observe the hydraulic oil level.
Fuel meter on the instrument panel , and operator can know how much the fuel left in any time and decide if it's necessary to fill the tank.
Engine oil gauge to measure the oil level.
Transmission oil gauge to measure the oil level.

EASY TO OPEN
Fuses box can be opened with out tools, and it's easy to judge which fuse is fusing.
Engine hood cab can be opend upward and surported by the gas spring.

CONVENIENT MAINTENANCE
Lubrication ports are all placed in convenient position, and it's good for daily maintenance.
Air filter can be changed after opening the engine hood with out using a tool.
Front grill offers outstanding access to clean-up the cooling package, this makes working in dusty environments easier, allowing quick access to the battery and general switch, improve maintainability for the electrical system.

FREE TO MAINTAIN
Maintenance-free battery for good quality.
The braking system takes pressure from torque converter so you just need to make sure the transmission system is work well.

LiuGong is committed to providing you with tough equipment and excellent service.









STANDARD EQUIPMENT

ENGINE SYSTEM
- Perkins 1104D-44TA
- Diesel engine, four cylinder
- Engines meet Tie 3 / Stage III emission regulation
- Dry type air filter
- Engine cut off, mechanical
- Fuel and Water Separator
- Fuel tank 130L

DRIVE TRAIN
- Mechanical drive
- Carraro power shuttle transmission
- Wet disc hydraulic brakes
- Tranmission speed ranges, four forward and four reverse
- Carraro two Wheel drive axle
- Vacuum tyre
- Full hydraulic steering
- Front axle, pendulum mount

TUBE TIRES
- Front 14-17.5NHS-14PRT
- Rear 19.5-24NHS -14PRT

LOADER
- General loader bucket 1.0 m^3
- Curved loader arms
- 8-bar bucket linkage
- Boom interlock

Backhoe
- Standard backhoe boom
- Backhoe type controls
- Backhoe bucket 0.22 m^3
- Dipper cylinder and dipstick

OPERATOR ENVIRONMENT
- Open cab with FOPS & ROPS
- Adjustable suspension seat
- Instrument panel lights
- Lights , working (2 front, 2 rear)
- Mirrors external
- Mirror internal
- Alternator,80 amp
- Cab mounted fuse panel
- Maintenance free battery,12V
- Turning lights (two rear)
- Cigarette lighter
- Floor mat
- Hand & foot accelerator
- Horn

OTHERS
- Air filter restriction indicator
- Engine cooling temperature gauge
- Hour meter gauge
- Boom bumper

OPTIONAL EQUIPMENT

BACKHOE
- Telescopic boom

COUNTERWEIGHT
- 210 kg counterweight
- 300 kg counterweight
- 440 kg counterweight

ATTACHMENTS
- Backhoe bucket 0.10 m^3, 406 mm width
- Backhoe bucket 0.15 m^3, 457 mm width
- Backhoe bucket 0.20 m^3, 610 mm width
- Backhoe bucket 0.25 m^3, 762 mm width
- Hydraulic shear
- Vibratory tamper
- Hydraulic Hammer
- 4 in 1 Load Bucket 1.0 m^3

TIRES
- Front tire 12.5/80-18 14RP
  Rear tire 16.9-28 14RP
  Machine max. travel speed 39.8 km/h
- Front tire 405/70-20 14PR
  Rear tire 16.9-28 14RP
  Machine max. travel speed 40.8 km/h

OTHERS
- Ride control system
- Enclosed cab, ROPS / FOPS, with AC
- Rotary beacon
- Fire extinguisher
- Fire extinguisher

SPECIFICATIONS

ENGINE	
Emission Regulation	Tier 3 / Stage IIIA
Manufacturer	Perkins
Model	1104D-44TA
Gross Power	74.5 kW (100 hp / 101 ps) @ 2,200 rpm
Net Power	72 kW (97 hp / 98 ps) @ 2,200 rpm
Peak Torque	410 N · m @ 1,400 rpm
Displacement	4.4 L

ELECTRICAL SYSTEM	
System Voltage	12 V
Battery Rating	95 amp - hr

DRIVE TRAIN	
Number of Drive Wheels	2WD / 4WD
1st Maximum Speed, fwd/rev	5.9 km/h
2nd Maximum Speed, fwd/rev	10.7 km/h
3rd Maximum Speed, fwd/rev	20.5 km/h
4th Maximum Speed, fwd/rev	36 km/h
Turning Radius, Outside of Front Tire	4,400 mm
Turning Radius, Outside of Bucket	5,554 mm

BRAKES	
Service Brake Type	Wet disc
Service Brake Actuation	Hydraulic service

TIRES	
Front Tire Size	14 - 17.5NHS - 14RP T
Rear Tire Size	19.5 -24NHS -14PR T

HYDRAULIC SYSTEM	
Circuit Type	Open
Total Flow	143 L/min
Main Relief Pressure	24 MPa
Pump Type	Tandem gear pump
Steering Type	Priority valve

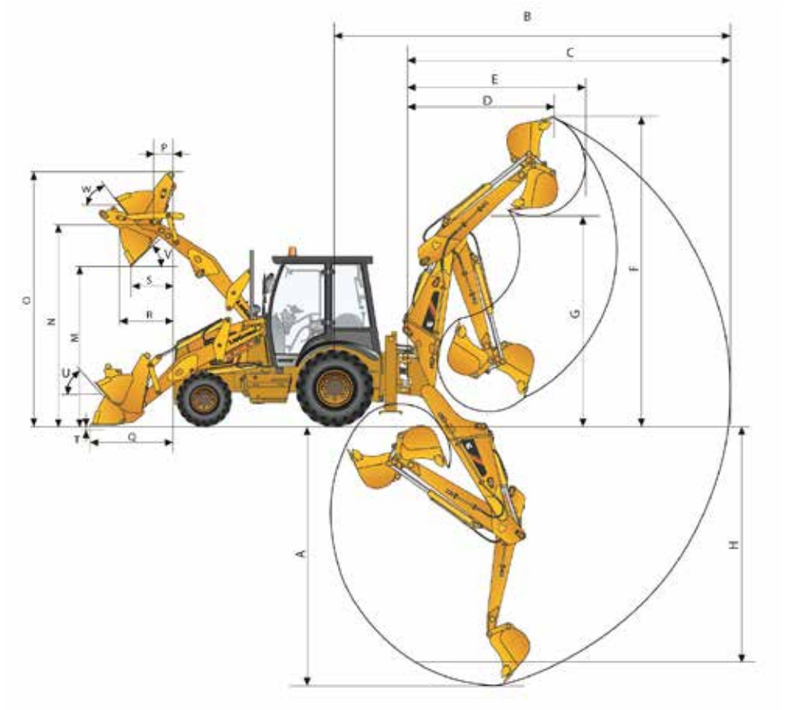
OPERATING WEIGHTS	
Operating Weight	8,400 kg

LOADER PERFORMANCE	
Standard Bucket Type (referenced)	General bucket
Heaped Capacity ISO (referenced)	1.0 m^3
Standard Bucket Width (referenced)	2,260 mm
Lift Capacity at Full Height	30.2 kN
Bucket Breakout Force	59.3 kN
Maximum Dump Angle at Full Height	45°
Dump Height at Maximum Angle	2,691 mm
Dump Reach at Full Height Discharge	713 mm
Boom Lift Capacity, end, at ground	49.3 kN
Maximum Dig Depth	89 mm

BACKHOE PERFORMANCE	
Standard Bucket Type (referenced)	General bucket
Heaped Capacity ISO (referenced)	0.2 m^3
Standard Bucket Width (referenced)	610 mm
Maximum Dig Depth	4,440 mm
Reach From Swing Pivot at Ground	5,443 mm
Turning Angle of Bucket	186°
Bucket Digging Force	58.2 kN
Dipper Digging Force, standard stick	37.5 kN
Loading Height	3,586 mm
Loading Reach from Swing Pivot	3,007 mm

SERVICE CAPACITIES	
Fuel Tank	130 L
Engine Oil	7 L
Cooling System	23 L
Hydraulic Reservoir	130 L
Hydraulic System Total	170 L
Transmission and Torque Converter	16 L
Axle, front	6.9 L
Axle, rear	16 L

SPECIFICATIONS



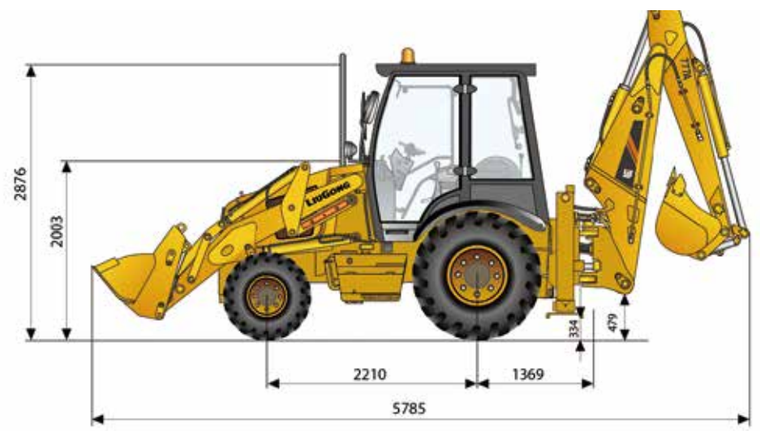
BACKHOE WORKING RANGES	UNIT	Standard Arm	Telescopic Arm
A Max. digging depth, SAE	mm	4440	5600
C Reach from swing pivot at ground	mm	5443	6553
G Max. dumping height	mm	3586	4273
H Max. digging depth (2.5m)	mm	4038	5190
F Max. Working height	mm	5400	6430

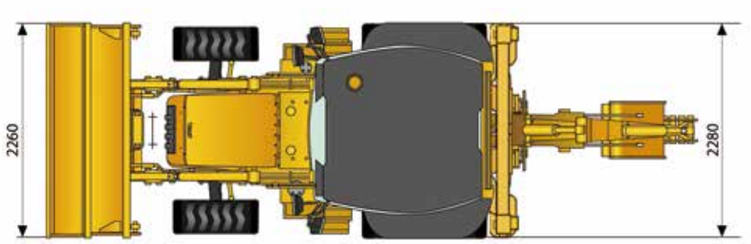
BACKHOE PERFORMANCE	UNIT	Standard
Standard Bucket Capacity	m^3	0.22
Standard Bucket Width (referenced)	mm	610
Maximum Dig Depth	mm	4,440
Reach From Swing Pivot at Ground	mm	5,433
Turning Angle of Bucket	°	186°
Bucket Digging Force	kN	58.2
Dipper Digging Force, standard stick	kN	37.5
Loading Height	mm	3,586
Loading Reach from Swing Pivot	mm	3,007

LOADER PERFORMANCE	UNIT	Standard
M Maximum Dump Height at Max. Angle	mm	2,691
S Dump Reach at Full Height Discharge	mm	713
N Maximum Hinge Pin Height	mm	3446
T Maximum Digging Depth	mm	89
O Maximum operating height at Full Height	mm	4333
Standard Bucket Type (referenced) general load bucket	m^3	1
Standard Bucket Heaped Capacity ISO	m^3	1
Standard Bucket Width (referenced)	mm	2,260
Lift Capacity at Full Height	kN	30.2
Bucket Breakout Force	kN	59.3
Boom Lift Capacity, end at ground	kN	49.3
Maximum Dump Angle at Full Height	°	45°

DIMENSIONS

DIMENSIONS	UNIT	777A with gereral bucket (1 m^3)
Max. shipping length	mm	5785
Overall height to top of cab	mm	2876
Overall height to top of boom	mm	3544
Max. shipping width	mm	2280
Loading bucket width	mm	2260
Wheel tread	mm	2210
Ground clearance	mm	300
Front wheel tread	mm	1830
Rear wheel tread	mm	1734





Unit:mm

LIUGONG

TOUGH WORLD. TOUGH EQUIPMENT.

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