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# LIUGONG ROAD CONSTRUCTION SOLUTION

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# LIUGONG OVERVIEW

From our foundation in 1958, and the introduction of China's first modernized wheel loader in 1966, for over 60 years we've put our customers at the heart of everything we do. Through continuous efforts and technological innovation, LiuGong has developed a series of tough equipment. Today, we offer over 30 product lines covering all major construction applications. Across the world, from the searing heat of the Sahara, to the extremely cold of the Antarctic, we've built our reputation for designing and building a tough range of machines that help our customers do more and earn more. LiuGong continues to expand global network and provide trusted local support to customers. With over 500 certified and trained dealers in over 130 countries and regions, we provide a service team that puts you first whenever and wherever you need us.

Based on 25 years of research in road construction technology and practice in equipment manufacturing, LiuGong has established a complete construction engineering technology system and industrialization capabilities, providing equipment and value-added services to over 1,000 road construction customers worldwide. Our global team of professional application engineers goes deep into road construction sites, understands users' actual needs, and provides technical support in equipment selection, equipment operation, and operator training. In addition, we have established a "dual circulation" system that directly connects customer needs to R&D, and the R&D team implements product reliability upgrades and continuous optimization based on FMEA (Failure Mode and Effects Analysis). LiuGong will also explore collaborative innovation models with customers and develop customized solutions for specific working conditions.

LiuGong ensures optimal performance matching of equipment at every construction stage, thereby saving valuable seconds and leading to greater profitability to customers. We provide a comprehensive road construction product solution to meet customers' all-around needs in terms of safety, efficiency, energy saving, and intelligence.

Focusing on enhancing corporate ESG (Environmental, Social, and Governance) performance and strengthening core competitiveness, LiuGong's full solutions will help you create greater value.



# OVERVIEW OF GLOBAL ROAD CONSTRUCTION

The global road system is functionally classified into four major categories: expressways, ordinary highways, urban roads, and special roads (such as port/airport roads).

According to the statistics from the World Bank and the Ministry of Transport of China, the top three countries with the largest global road network are the US, ranking first with 7.04 million kilometers, India, the second-largest road network country with 6.7 million kilometers, and China, maintaining the third-largest global scale with a total mileage of 5.5 million kilometers (including 200,000 kilometers of expressways).

## Global Road Construction Development Trends

### Key Driving Forces: Four Major Shifts

**From Rapid Expansion of Quantity to Steady Growth of Quantity and Upgrading of Quality:** The focus has shifted to maintenance, rehabilitation, upgrading, and intelligent retrofitting of existing road assets. In many developing countries, network expansion is still ongoing, while higher-quality and more sustainable construction standards are increasingly being adopted.

Meanwhile, many developing countries are still expanding their road networks, yet are increasingly emphasizing higher-quality and more sustainable construction standards.

**From Traditional to Digital and Intelligent Solutions:** Digital technologies such as BIM (Building Information Modeling), GIS (Geographic Information System), and AI are fundamentally transforming the way roads are planned, designed, constructed, managed, and maintained, improving efficiency, accuracy, and lifecycle performance.

**From High-Emission to Green and Sustainable Practices:** Addressing climate change has become a core priority, driving the adoption of low-carbon materials, optimized construction processes, and lifecycle-based sustainability strategies across road infrastructure projects.

**From Vehicle-Oriented to People-Oriented Road Systems:** Modern road development increasingly emphasizes equity, safety, and inclusiveness, integrating the "Complete Streets" concept to better serve not only motor vehicles, but also public transport, cyclists, and pedestrians, enhancing overall safety and accessibility.



# LIUGONG ROAD CONSTRUCTION TOTAL SOLUTIONS

LiuGong provides complete road construction product solutions for customers in the global road construction industry, meeting their different application requirements:

## Equipment Solutions:

LiuGong provides efficient, stable, and environmentally friendly equipment solutions and advanced technologies for the entire process of surface clearing, stripping, transportation, filling, leveling, compaction, paving, etc. in road construction projects, ensuring the safety, efficiency, and sustainable development of road construction, and offering comprehensive and customized solutions for the industry.

## Technical Solutions:

Monitor equipment status and conduct health management through LiuGong iLink Equipment Intelligence System to maintain high performance and efficiency, thus increasing equipment uptime.

## Aftermarket Solutions:

LiuGong provides customers with value-added services such as machine delivery service, safety operation and maintenance training, operation skills training, genuine parts supply, on-site service, repair and maintenance, regular inspection and oil sample analysis, equipment health management and analysis, preventive maintenance, overhaul and remanufacturing, etc., to ensure high-performance operation throughout the entire equipment lifecycle management.

## Smart, Green, and Low-Carbon Road Construction Solutions:

With the continuous advancement of electrification, LiuGong has been closely collaborating with customers to plan for clean energy (wind and solar energy) and energy storage & charging facilities, gradually achieving the goals of intelligent, green, and low-carbon operation in road construction. As the scale of new infrastructure construction continues to expand, new technologies such as 5G, Big data, artificial intelligence, and driverless technology continue to deeply empower highway construction.

## Financial Solutions:

Enable customers to focus more on road construction and operations.

LiuGong, together with global customers, is dedicated to comprehensively and continuously optimizing every process of road construction, creating efficient, productive, safe, intelligent, and green roads, thereby contributing to the sustainable development of the global economy.



# LiuGong Road Construction Equipment Solutions

Bases on the different scenarios of road construction, the recommended equipment combinations are as follows:

Road Type/Product Portfolio	Highway	Rural Road	Mine Road	High-Altitude and Cold-Weather Road	Bridge Road	Tunnel Road
Excavator	22-28 t	22-28 t	24-50 t	22-24 t	15-24 t	22-24 t
Wheel Loader	173-255 hp	123-217 hp	217-365 hp	217-255 hp	173-255 hp	217 hp
Off-highway Dump Truck	40-70 t	/	40-70 t	40-70 t	/	40-70 t
Dump Truck	20-50 t	20-50 t	20-50 t	20-50 t	20-50 t	20-50 t
Bulldozer	60-260 hp	60-260 hp	160-600 hp	60-360 hp	60-260 hp	/
Motor Grader	145-230 hp	100-145 hp	260-500 hp	200-260 hp	145-230 hp	/
Single Drum Roller	12-22 t	8-16 t	16-22 t	12-22 t	/	12-22 t
Concrete Batching Plant	120-240 m <sup>3</sup>	60-80 m <sup>3</sup>	/	/	120-240 m <sup>3</sup>	120-240 m <sup>3</sup>
Asphalt Mixing Plant	100-150 m <sup>3</sup>	100-150 m <sup>3</sup>	/	100-150 m <sup>3</sup>	100-150 m <sup>3</sup>	100-150 m <sup>3</sup>
Paver	6-12 m	6-12 m	/	/	6-12 m	6-12 m
Tandem Roller	8-12 t	8-12 t	/	8-12 t	/	8-12 t
Tire Roller	16-26 t	16-26 t	/	16-26 t	16-26 t	16-26 t



# LiuGong Equipment Solutions for Airport Road Construction














Airport road construction scenario:

Road Type/Product Portfolio	Airfield Pavement Engineering
Excavator	22-28 t
Wheel Loader	217-255 hp
Motor Grader	200-260 hp
Bulldozer	160-260 hp
Single Drum Roller	12-22 t
Concrete Batching Plant	60-90 m <sup>3</sup>
Asphalt Mixing Plant	100-150 m <sup>3</sup>
Tandem Roller	8-12 t
Pneumatic Tire Roller	16-24 t
Rotary Drilling Rig	150-200 kN. m
Tower Cran	20 t (JHT7527C-20)
Construction Hoist	Height 100m, speed 38 m/min (SC200/200EA-SP)
Mobile Crane	25 t (LTC250V5)
Aerial Work Platform	5-14 m (Scissor) 14-38 m (Boom Lift)
Boom Pump	37 m-56 m
Cold Planer	1-2 m
Skid Steer Loader	380 – 1,133 kg
Paver	9-18 m
Light Roller	3-5 t



# Road Construction Process Flow

Note: Recommended main models for each product line, with each region focusing on the main sales models.

Subgrade Construction			Cement-stabilized Layer Construction			
Surface clearing, excavation, and filling	Leveling	Compaction	Mixing	Transportation	Paving	Compaction
 922F/926F	 B160C/B230 LD20D/LD26D	 6622E/6626E	 WDB300, 300 tons per hour; WDB400, 400 tons per hour; WDB600, 600 tons per hour; WDB800, 800 tons per hour	 20-40 ton	 506E/509E/512E	 6618E/6620E 6626E   6526E/6530E
 835H/835T/50CN 856H/862H	 4165D/4180D 4215D/4230D	 6321/6324				

Asphalt Layer Construction				Road Maintenance			
Bitumen	Transportation	Paving	Compaction	Maintenance			
 LAP1500 LAP3000	 20-40 ton	 506E/509E/512E	 6212E/6213E 6214E   6526E/6530E	 M050E/M100E M200E	 375B/385B	 506E/509E/512E	 6029F/6032F



# LiuGong Equipment Solution for Subgrade Construction

## Subgrade Construction - Surface Clearing, Excavation, and Backfilling

Quickly completing the surface clearing, excavation, and filling of the subgrade is a crucial step in road construction subgrade building.

The powerful LiuGong bulldozers and excavators help to efficiently and quickly complete surface clearing; the high-performance wheel loader and dump truck are used for excavation, loading, and transportation.

### Excavators

Model	920F	922F	926F	933F	939F	952F
Rated Load Capacity	21,400 kg	22,000 kg	26,000 kg	33,600 kg	39,000 kg	50,000 kg
Rated Power	124 kW	124 kW	140 kW	169 kW	214 kW	280 kW
Standard Bucket Capacity	1 m <sup>3</sup>	1.1 m <sup>3</sup>	1.6 m <sup>3</sup>	1.88 m <sup>3</sup>	2.0 m <sup>3</sup>	3.2 m <sup>3</sup>

#### Excellent Performance

LiuGong excavators are equipped with multiple innovative hydraulic technologies, a new intelligent electronic control system, which offers higher efficiency, more precise control, as well as independent cooling system, resulting in higher overall machine operating efficiency and better fuel economy.

#### Robust and Durable

The key components of LiuGong excavators and mining trucks are welded from high-strength steel plates, featuring high thickness, high strength, and high wear resistance.

#### Convenient Maintenance

The main maintenance points are centrally arranged, with maintenance passages connected, making maintenance and upkeep more convenient.

### Wheel Loaders

Model	835H	835T	50CN	856H	862H
Rated Load Capacity	10,375 kg	10,300 kg	16,595 kg	17,250 kg	20,787 kg
Rated Power	97 kW	113 kW	162 kW	162 kW	180 kW
Standard Bucket Capacity	1.8 m <sup>3</sup>	1.8 m <sup>3</sup>	3 m <sup>3</sup>	3.5 m <sup>3</sup>	4 m <sup>3</sup>

#### Classic and Reliable

The engine jointly developed by LiuGong and Cummins, specifically designed for wheel loader operating conditions, features cutting-edge technology and reliable quality. It can be paired with ZF and LiuGong self-developed transmissions and heavy-duty drive axles, offering powerful traction force, robust and reliable, and high adaptability to subgrade construction requirements.

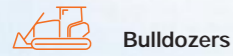
#### High Efficiency and Fuel Saving

The operating gear speed has increased by 6%, and the boom lifting speed has increased by 7%. With the industry's most advanced overall machine matching technology, the speed and power are perfectly matched, and the efficiency is the best among peers. Industry-leading fuel efficiency ensures robust operational capabilities while achieving high efficiency and energy savings. The industry's first constant-power variable-displacement hydraulic system saves 12% to 15% of fuel.



## Subgrade Construction - Leveling

The leveling stage of subgrade construction directly determines the overall strength, stability of the subgrade, and the quality of subsequent pavement construction. LiuGong's robust and durable bulldozers facilitate efficient progress of the project. The intelligent and efficient motor grader, equipped with an automatic leveling system, precisely controls the blade movement through intelligent algorithms, easily controls the flatness error, and meets the leveling requirements of "slope compliance and precise elevation", enabling efficient and fine leveling operations even with a single operator.



### Bulldozers

Model	B160C	LD20D	B230
Operating Weight	17,000 kg	17,500 kg	24,540 kg
Rated Power	131 kW	154 kW	179 kW
Blade Capacity	3.3 m <sup>3</sup>	3.3 m <sup>3</sup>	8.4 m <sup>3</sup>
Track Contact Length	2,430 mm	2,640 mm	2,840 mm
Track Shoe Width	510 mm	510 mm	560 mm

### Impressive Performance Behind Every Push

Equipped with world-leading Cummins engine, with superior fuel efficiency, greater traction force, and a 15% increase in productivity.

### Robust and Durable

The main frame, featuring high strength and high wear resistance, is reliable and efficient.

### Convenient Maintenance

High-efficiency three-stage air filtration system providing strong dust-proofing ability. Connected maintenance passages make maintenance more convenient.



### Motor Graders

Model	4165D	4180D	4215D	4230D
Operating Weight	14,370 kg ~ 17,110 kg	14,990 kg ~ 18,190 kg	16,000 kg ~ 20,150 kg	16,300 kg ~ 20,150 kg
Rated Power	132 kW	142 kW	162 kW	180 kW
Traction Force (f=0.8)	77 kN	83 kN	89 kN	99 kN
Maximum Blade Lifting Height	600 mm	600 mm	600 mm	600 mm
Maximum Digging Depth	680 mm	680 mm	680 mm	680 mm
Blade Specification (Length × Height)	3,960 mm × 610 mm	3,960 mm × 610 mm	4,270 mm × 610 mm	4,270 mm × 610 mm

### Panoramic View

324° ultra-wide visibility, surrounded without blind spots, visible operation for high efficiency.

### Powerful and Efficient

Equipped with world-leading Cummins engine with superior fuel efficiency, high-end ZF transmission, large-capacity torque converter, greater vehicle traction, and higher efficiency.

### Easy Control

The user-friendly integrated joystick enables one-handed operation of multiple levers, saving time and effort while reducing the operator's labor intensity.

### Robust and Durable

The LiuGong motor grader frame structure has been increased by 25% on the overall strength, ensuring balanced force distribution, smooth operation, and high construction efficiency.



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## Subgrade Construction - Compaction



### Single Drum Rollers

Model	6608F	6614F	6616F	6618E	6620E	6622E
Operating Weight	7,500 kg	14,000 kg	15,500 kg	18,300 kg	20,000 kg	22,000 kg
Rated Power	55 kW (Stage V) 74 kW (Stage III)	129 kW (Stage V) 142 kW (Stage II)	129 kW (Stage V) 142 kW (Stage III)	147 kW (Stage III)	147 kW (Stage III)	147 kW (Stage III)
Centrifugal Force	122 / 92 kN	290/220 kN	290/220 kN	380/320 kN	390/328 kN	410/345 kN
Vibration Frequency	32 / 36 Hz	30/34 Hz	30/34 Hz	28/32 Hz	28/32 Hz	28/32 Hz
Compaction Width	1,680 mm	2,130 mm	2,130 mm	2,130 mm	2,130 mm	2,130 mm

#### Convenient Maintenance and Lower Cost

- The Inverted engine and transmission technology allows the hood to open up to 60°, making daily maintenance easily accessible.
- The vibrating drum is designed with two independent vibration chambers, facilitating maintenance.
- The lubricating oil filling volume of the vibrating drum is 80% lower than average, with lower costs.

#### Comfortable Cabin

- The cabin is spacious with excellent visibility, featuring six overhead lights and three - stage vibration reduction system, providing a comfortable driving environment.

#### Long-life Vibrating Drum

- Flexible vibration technology reduces vibration impact, extending the lifespan of major components by 30%.
- Built-in fan cooling technology extends the lifespan of vibration bearings to 10,000 hours.

#### Strong Driving Force

- Fully hydraulic drive, infinitely variable speed regulation, excellent compaction effect.

#### High Compaction Efficiency

- Large-diameter vibrating drum design, high exciting force, and strong compaction ability.
- The left and right amplitude uniformity of the vibrating wheel is <5%, and the compaction quality is excellent.



# LiuGong Equipment Solution for Stabilized Base Construction

## Construction of Stabilized Base - Mixing and Transportation

As a key structural layer of the road base, the construction quality of the cement-stabilized layer directly affects the bearing capacity and service life of the road surface. Based on 25 years of R&D experience in road construction equipment, targeting industry pain points such as material segregation, compaction uniformity, and construction efficiency in cement-stabilized layer construction, LiuGong has launched an "intelligent and efficient" equipment solution through the application of LiuGong Intelligent Management Software and high-efficiency mixing technology.



Batching Plants

Model	HZS60	HZS90	HZS120	HZS180	HZS240
Rated Output	60 m³/h	90 m³/h	120 m³/h	180 m³/h	240 m³/h

### High Efficiency

The application of technologies such as seamless aggregate preparation technology, high-efficiency mixing technology, and discharge gate slide valve have increased production efficiency by 20%.

### Energy Saving

The application of optimized air duct design and variable frequency drive (VFD) technology achieves approximately 25% energy savings.

### Environmental protection

Achieve low dust, low noise, and zero emission, building an energy-saving and environmentally friendly mixing station.

### Intelligence

The application of one-machine dual-control technology and LiuGong Intelligent Commercial Concrete Management Software enables intelligent management of the mixing station.



Dump Trucks

Model	H5	H7
Type	4 Axles 8 Wheels	4 Axles 8 Wheels
Payload	15 t	18 t

### Powerful

Equipped with Weichai or Yuchai engines, paired with Fast Gearbox and cast steel rear axle, it delivers high transmission efficiency, strong power output, meeting the demands of various working conditions.

### Excellent Visibility

The ultra-wide front windshield combined with all-round rearview mirrors provides a 360-degree blind-spot-free visibility, ensuring safer driving.

### Superior Comfort

Adopting the cab suspension technology, the seat vibration acceleration has been improved to 0.5 m/s², reaching the industry advanced level, effectively reducing operator's fatigue.

### Low Fuel Consumption

The driving drag coefficient is as low as 0.53, the center of gravity of the vehicle is lowered by 20mm, and the comprehensive fuel consumption can be reduced by 4%.



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## Construction of Cement-Stabilized Base - Paving and Compaction

In the construction of the cement-stabilized base layer, the paver and single-drum roller are the core equipment to ensure construction quality.

Leveraging years of technological expertise, LiuGong has developed an intelligent paver with anti-segregation capabilities, combined with a high-efficiency single-drum roller, to address common industry challenges in cement-stabilized base construction, such as material segregation and uneven compaction. Through an intelligent control system, this solution ensures high-precision construction. When paired with the single-drum roller's high exciting force design, it achieves a compaction level of over 98%, while improving construction efficiency and reducing fuel consumption and operating costs.



Pavers

Model	506E	509E
Basic Paving Width	2-4 m	3.0-5.7 m
Maximum Paving Width	6m	10 m
Maximum Paving Thickness	300 mm	500 mm
Theoretical Productivity	600 t/h	1,000 t/h
Rated Power	108 kW	169 kW
Operating Weight	17,500 kg	28,500 kg

### Powerful Performance

- The output power and torque of the spiral material distribution and scraper material conveying have increased by 15%, and the productivity has been increased to 1,000 t/h.

### High Efficiency and Energy Saving

- ECO Economy Mode automatically matches engine speed based on actions, reducing fuel consumption by 20%.

### High-Strength Telescopic Screed

- The telescopic screed is equipped with a 3-6 m telescopic section, meeting different specifications from 7.5 to 10 meters.
- It can perform constant temperature paving, heating while working.
- Modular design enables quick assembly and installation.
- Electro-hydraulic arch adjustment, button operation.

### Anti-Segregation Design

- Scraper ratio adjustment ensures smoother material conveyance.
- Optimized spiral channel design, lower material resistance coefficient.
- Narrower scraper triangle plate and narrower spiral box eliminate the middle segregation zone.
- Large-thickness kit package, capable of one-pass paving up to 500 mm.



Single Drum Roller

Model	6608F	6614F	6616F	6618E	6620E	6622E
Operating Weight	7,500 kg	14,000 kg	15,500 kg	18,300 kg	20,000 kg	22,000 kg
Rated Power	55 kW (Stage V) 74 kW (Stage III)	129 kW (Stage V) 142 kW (Stage II)	129 kW (Stage V) 142 W (Stage III)	147 kW (Stage III)	147 kW (Stage III)	147 kW (Stage III)
Centrifugal Force	122 / 92 kN	290/220 kN	290/220 kN	380/320 kN	390/328 kN	410/345 kN
Vibration Frequency	32 / 36 Hz	30/34 Hz	30/34 Hz	28/32 Hz	28/32 Hz	28/32 Hz
Compaction Width	1,680 mm	2,130 mm	2,130 mm	2,130 mm	2,130 mm	2,130 mm

### Convenient Maintenance and Lower Cost

- The Inverted engine and transmission technology allows the hood to open up to 60°, making daily maintenance easily accessible.
- The vibrating drum is designed with two independent vibration chambers, facilitating maintenance.
- The lubricating oil filling volume of the vibrating drum is 80% lower than average, with lower costs.

### Comfortable Cabin

- The cabin is spacious with excellent visibility, featuring six overhead lights and three - stage vibration reduction system, providing a comfortable driving environment.

### Long-life Vibrating Drum

- Flexible vibration technology reduces vibration impact, extending the lifespan of major components by 30%.
- Built-in fan cooling technology extends the lifespan of vibration bearings to 10,000 hours.

### Strong Driving Force

- Fully hydraulic drive, infinitely variable speed regulation, excellent compaction effect.

### High Compaction Efficiency

- Large-diameter vibrating drum design, high exciting force, and strong compaction ability.
- The left and right amplitude uniformity of the vibrating wheel is <5%, and the compaction quality is excellent.



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# LiuGong Equipment Solution for Asphalt Pavement Construction

## Asphalt Layer Construction - Mixing and Transportation

Asphalt layer construction is a critical process in road construction, and its quality directly affects the durability of the road surface and driving comfort.

Based on years of construction experience, LiuGong has developed an integrated solution for "mixing - transportation - paving - compaction" to address core challenges in asphalt layer construction, such as temperature control, material uniformity, and transportation timeliness.



Asphalt Mixing Plants

Model	LAP1000	LAP1300	LAP1500	LAP2000	LAP3000	LAP4000	LAP5000
Rated Output	80 t/h	104 t/h	124 t/h	160 t/h	240 t/h	320 t/h	400 t/h

### Energy Saving

- Italy CBS Burner, automatically adjusts the air-fuel ratio, saving 12% of fuel.
- Secondary weighing system, ensuring accurate formulation, reducing asphalt loss, with an accuracy of  $\pm 0.2\%$ .
- Warm Asphalt Mixing System reduces mixing temperature by 20°C and saves fuel by 30%.

### Intelligent Control System

- Remote device maintenance.
- Remote network management.
- Remote data service.
- Intelligent Production Management.

### Modular Design

- Quick and convenient installation, with a small footprint.
- Seamless upgrade of conventional equipment and regeneration equipment.



Dump Trucks

Model	H5	H7
Drive Type	4 Axles 8 Wheels	4 Axles 8 Wheels
Rated Load Capacity	15 t	18 t

### Powerful

Equipped with Weichai or Yuchai engines, paired with Fast Gearbox and cast steel rear axle, it delivers high transmission efficiency, strong power output, meeting the demands of various working conditions.

### Excellent Visibility

The ultra-wide front windshield combined with all-round rearview mirrors provides a 360-degree blind-spot-free visibility, ensuring safer driving.

### Superior Comfort

Adopting the cab suspension technology, the seat vibration acceleration has been improved to 0.5 m/s<sup>2</sup>, reaching the industry advanced level, effectively reducing operator's fatigue.

### Low Fuel Consumption

The driving drag coefficient is as low as 0.53, the center of gravity of the vehicle is lowered by 20mm, and the comprehensive fuel consumption can be reduced by 4%.



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## Asphalt Layer Construction - Paving and Compaction



### Pavers

Model	506E	509E
Basic Paving Width	2-4 m	3.0-5.7 m
Maximum Paving Width	6m	10 m
Maximum Paving Thickness	300 mm	500 mm
Theoretical Productivity	600 t/h	1,000 t/h
Rated Power	108 kW	169 kW
Operating Weight	17,500 kg	28,500 kg

#### Intelligent and Convenient

Variable frequency heating technology enables constant-temperature paving, allowing heating during operation. Real-time screed temperature monitoring ensures that the screed is always maintained at the optimal working temperature.

#### Energy Saving and Noise Reduction

Equipped with self-adaptive control cooling fan ensures low machine noise. The intelligently optimized transfer case can save 10% on fuel consumption.

#### User-Friendly Interface

Equipped with a 10-inch color touchscreen console, allowing one-touch parameter setting and direct monitoring of key performance parameters. The display is arranged at a comfortable angle, providing good operation experience.

#### Time and Effort Saving

Canopy with hydraulic lift; Electric pin lock for the screed extensions; Automatic material collection in the hopper; Centralized lubrication for the entire machine; Crawler track with automatic tensioning (low-pressure) and buffering (high-pressure), eliminating manual adjustment.



### Tandem Drum Rollers

Model	6208E	6210E	6212E
Operating Weight	7,800 kg	9,500 kg	12,500 kg
Rated Power	82 kW	81 kW	119 kW
Centrifugal Force	79/68 kN	100/61 kN	159/103 kN
Vibration Frequency	50/67 Hz	45/50 Hz	50/67 Hz
Compaction Width	1,500 mm	1,700 mm	2,130 mm

#### Long-Life Vibratory Drum

Using shock-free vibration technology, no potholes will appear on the road surface when the machine starts or stops vibrating.

#### High Compaction Efficiency and Good Surface Quality

- The driving control technology with flexible start and stop is adopted to achieve the "soft acceleration, soft deceleration" function of the machine, ensuring that no material congestion occurs on the road surface.
- The left-to-right amplitude variation of the drum is less than 5%, with good uniformity.
- High-frequency low-amplitude vibration technology, with a frequency up to 67Hz, ensuring high compaction efficiency.

#### Low Cost of Ownership

- Engine "Self-Throttle Technology".
- Intelligent Independent Fan Cooling Technology.



### Tire Rollers

Model	6516E	6520E	6526E
Operating Weight	16,000 kg	20,000 kg	26,000 kg
Rated Power	97 kW	97 kW	132 kW
Overlap	45 mm	45 mm	60 mm
Compaction Width	2,250 mm	2,250 mm	2,440 mm

#### Strong Adaptability to Working Conditions

- Optional configurations include water spraying, oil spraying, and centralized inflation.
- Exclusive patented steering structure and suspension system.

#### Easy Maintenance

- The cab can be tilted.
- The hood can be opened at a large angle, and the rear cover can fully flip, providing excellent ground accessibility.

#### Safe and Reliable

- Three-level braking technology.
- Wide operation visibility.



# LiuGong Equipment Solution for Road Maintenance

## Road Maintenance - Milling and Cleaning

Road maintenance construction is a critical process in ensuring the service life of roads and driving safety, with its core focuses on "precision, efficiency, and sustainability". Maintenance process needs to achieve full-process coordination of milling-paving-compaction, and rely on intelligent equipment to improve construction accuracy and efficiency. LiuGong can provide comprehensive solutions for road maintenance. Meanwhile, maintenance equipment is iteratively upgraded towards intelligent and modular directions according to market demands.

### Cold Planers

Model	M050E	M100E	M200E
Operating Weight	8,150 kg	14,600 kg	30,500 kg
Rated Power	118 kW	154 kW	563 kW
Milling Width	500 mm	1,000 mm	2,000 mm
Milling Depth	0-180 mm	0-220 mm	0-330 mm
Number of Tools	54	72	146

#### Simple Operation

Features include automatic blade lowering, one-touch milling, and true automatic transmission control. A 360° surround-view camera system provides a blind-spot-free working environment. The milling drum is equipped with a quick-change cutter design, enabling cutter replacement while the drum rotates at low speed.

#### High-Efficiency Milling

The milling drum designed with digital simulation enhances milling efficiency. The infinitely variable speed adjustment of the material conveying system, along with an 850 mm ultra-wide material conveying belt, ensures smooth milling without material blockage. The automatic anti-skid control enables a travel speed of up to 95 m/min, facilitating quick site transfer.

#### Reliable and Energy Saving

Three-speed variable speed shifting milling, dual fans with independent intelligent temperature control speed regulation, as well as load self-adaptive technology, enable automatic energy saving.

#### Save More with Less Effort

The lightweight and compact design of the whole machine layout saves transportation costs. The use of cemented carbide wear-resistant tooth sleeves increases the service life by 50%.

### Skid Steer Loaders

Model	365B	375B	375B
Operation Weight	2,950 kg	3,100 kg	3,100 kg
Rated Load	795 kg	865 kg	865 kg
Total Power	43.9 kW	49.9 kW	49.9 kW
Maximum Speed	11 km/h	10.5 km/h	10.5 km/h
Dump Height	2,220 mm	2,220 mm	2,220 mm
Dump Reach	540 mm	540 mm	540 mm

#### Multi-Functional and Versatile

Skid steer loaders can switch attachments such as buckets, hydraulic breakers, and sweeping brushes to perform various operations including earthmoving, crushing, sweeping, snow removal, etc., and are suitable for working scenarios such as municipal, highway, airport, and port.

#### Strong Cleaning Ability

Equipped with cleaning or snow removal attachments, it can efficiently clean stones, gravel, muck, and snow, adaptable to various road surfaces and weather conditions.

#### Time-Saving, Labor-Saving, and Highly Efficient

One skid steer loader can complete the workload equivalent to 5 workers in 1 hour, significantly reducing labor costs, notably improving cleaning efficiency, and shortening operation time.



## Road Maintenance - Paving, Compaction



Pavers

Model	503E	506E	509E
Basic Paving Width	1.2-3.2 m	2-4 m	3.0-5.7 m
Maximum Paving Thickness	200 mm	300 mm	500 mm
Theoretical Productivity	300 t/h	600 t/h	1,000 t/h
Rated Power	53 kW	108 kW	169 kW
Operating Weight	7,800 kg	17,500 kg	28,500 kg

**Intelligent & Precise Temperature Control:** Variable-frequency heating technology enables constant-temperature paving, allowing the screed to be heated continuously during operation. Online screed temperature monitoring ensures the screed remains within the optimal operating temperature range at all times.

**Fuel-Efficient & Low-Noise Operation:** Equipped with a high-power engine with sufficient power reserve, providing strong and stable performance. Adaptive cooling fan control reduces overall machine noise. An intelligently optimized transfer gearbox improves drivetrain efficiency and achieves up to 10% fuel savings.

**Friendly User Interface:** Equipped with a 10-inch color touchscreen control panel, allowing one-touch parameter settings and direct monitoring of key performance parameters. The display is positioned at a comfortable viewing angle relative to the operating platform, improving visibility and operator comfort.

**Time and Labor Saving Design:** Hydraulically adjustable canopy and electrically locking pins for screed simplify setup and transport. Automatic hopper material intake improves feeding efficiency. Centralized lubrication system reduces daily maintenance effort. Crawler undercarriage with low-pressure tensioning and high-pressure cushioning eliminates the need for manual track adjustment.



Tandem Rollers

Model	6208E	6210E	6212E
Operating Weight	7,800 kg	9,500 kg	12,500 kg
Rated Power	82 kW	81 kW	119 kW
Centrifugal Force	79/68 kN	100/61 kN	159/103 kN
Vibration Frequency	50/67 Hz	45/50 Hz	50/67 Hz
Compaction Width	1,500 mm	1,700 mm	2,130 mm

**Good Flatness:** Flexible non-impact vibration technology, soft start and soft stop technology.

**High Reliability:** Dual-pump and dual-motor vibration to avoid resonance between the front and rear steel drums. Dual sprinkler pump design.

**Highly Efficient Construction:** 67Hz high-frequency vibration technology, with a working speed of 8 km/h.

**Intelligent Cooling:** The controller adjusts the fan motor speed based on changes in water and oil temperatures to achieve intelligent cooling.



Maintenance Rollers

Model	6027F	6029F
Operating Weight	2,700 kg	2,900 kg
Rated Power	27.6 kW (Stage V) 25.7 kW (Stage III)	27.6 kW (Stage V) 25.7 kW (Stage III)
Centrifugal Force	42/38 kN	42/38 kN
Vibration Frequency	65 Hz	65 Hz
Compaction Width	1,200 mm	1,200 mm

**Flexible and Durable:** Multiple configurations are available, including dual-drive dual-vibration, dual-drive single-vibration, and front steel rear rubber, etc.

**Powerful and Efficient:** 60Hz high-frequency vibration, with large exciting force. Single and double vibration modes can be switched.

**Comfortable Operation:** Mid-position accidental operation protection; automatic start & stop of vibration, and automatic water spraying.

**Easy Maintenance:** The hood opens at a large angle, providing ample space for maintenance and making daily maintenance easily accessible.



Tire Rollers

Model	6516E	6520E	6526E
Operating Weight	16,000 kg	20,000 kg	26,000 kg
Power	97 kW	97 kW	132 kW
Overlap	45 mm	45 mm	60 mm
Compaction Width	2,250 mm	2,250 mm	2,440 mm

**Reliable Braking:** Disc brake, no adjustment required, maintenance-free, and fast heat dissipation.

**Driving Safety:** Ultrasonic Radar Intelligent Anti-Collision Safety System.

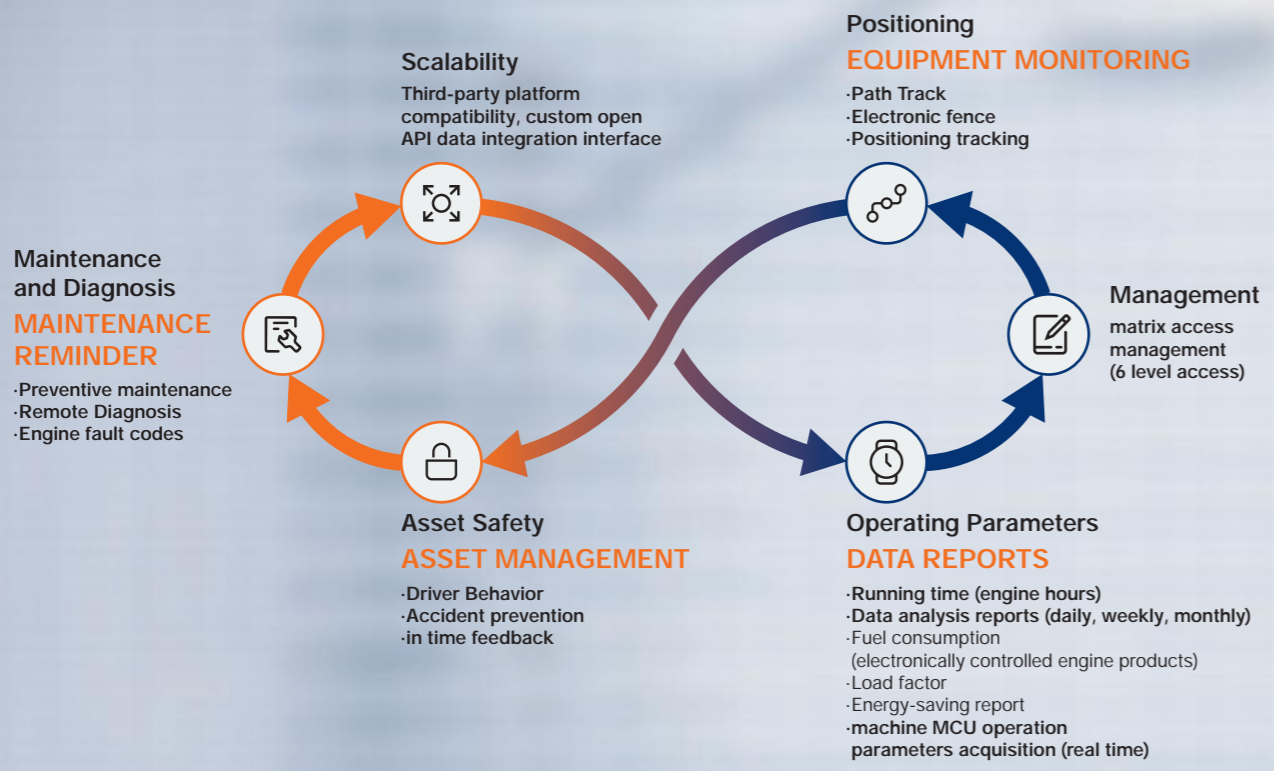
**Better Visibility:** The cabin equipped with panoramic view glass offers unobstructed views on both sides, dual steering wheels, and no blind spots during edge pressing operations.

**Intelligent Oil Spraying:** Intelligent swinging oil spraying, with no oil splashing; no manual oiling operation is required during the construction process.



# TECHNOLOGICAL SOLUTIONS

## LiuGong's iLink Equipment Intelligence System



Based on the LiuGong's iLink system analysis, we will provide the following reports:

- Detailed operation and equipment usage reports
- Recommendations for improving operator skills based on the work environment and job requirements.
- Total cost of ownership
- T-Sensitivity analysis, ideal combination of equipment for operations



### Intelligent Management Platform Digitized Decision-making

LiuGong's iLink Equipment Intelligence System gives you real-time information on all of your machines. It provides you with equipment productivity evaluation, fault analysis, equipment maintenance reminders, remote equipment management, and other value-added services. For example, it provides you with a comprehensive analysis of equipment usage and the entire operating system to optimize the operation process. We have global customer references with operations in various working condition. Based on the knowledge and experience we gained from our global customers, we are able to provide you with the right guidance for your operations.

# AFTERMARKET SOLUTIONS

## Product Training

We provide customers with professional product training, including basic theoretical knowledge training, online learning platform, equipment operation training, equipment maintenance and professional technical skills training for service engineers. Customized training programs are offered based on the actual level of each customer's team.



## Service Solutions

With over 500 certified and trained dealers in more than 130 countries around the world, we provide trusted and local support to our customers. With more than 30 overseas subsidiaries and agencies, over 20 overseas regional parts distribution centers (PDC), and 16 regional joint training centers, as well as call centers covering multiple countries, we provide a variety of customized service solutions to meet the actual needs of our customers.

### Our service solutions include

Equipment Maintenance Plan

Maintenance Training Program

Equipment Disassembly, Assembly, and Transportation

Equipment Downtime Service

Equipment Upgrade and Replacement Services

Service Package

Customized Product Warranty Options

## Parts Guarantee

Adequate and accurate spare parts reserves are very important for users. What's more, we can also provide appropriate consignment plans based on the business needs of our customers across various industries. We also offer various forms of credit sales, such as installment payments and deferred payments.

Company headquarters spare parts reserve

Spare parts warehouse reserve of our regional PDCs

Overseas dealer spare parts warehouse reserve

Reserve of recommendations provided to customers



Aftermarket Solutions

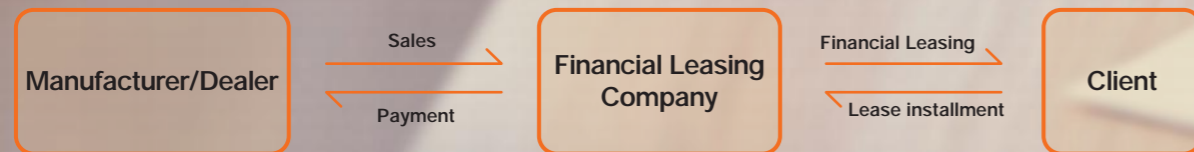
# FINANCIAL SOLUTIONS

We are committed to continually improve full solution, including credit and financial solutions for our dealers and customers by innovation in equipment and service network to meet with their needs.

LiuGong began to offer financial leasing solutions to global customers since 2010. We understand our customers' businesses and provide multiple solutions to fit their needs.

## Financial Leasing

Financial leasing is a great solution for customers to procure new machinery without the pressure of making a large payment in one go. Customers don't need to pay the full amount at once, which greatly reduces their payment pressure. Customers can use the equipment they need to complete their job and earn income to pay off the equipment. This provides our dealers and customers with more business opportunities.



## Other Creative Financial Solutions

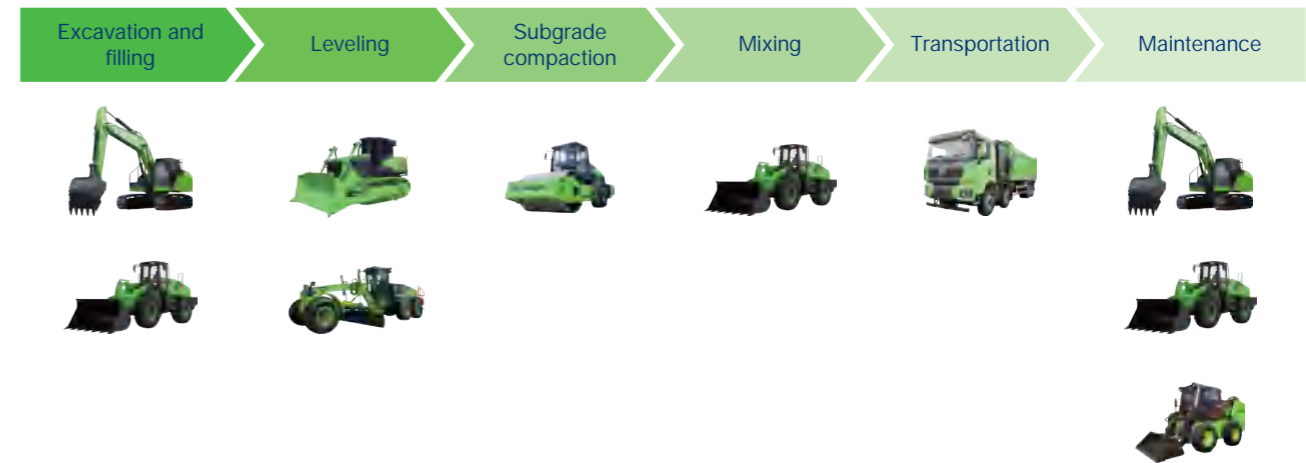
LiuGong is also actively exploring partnerships with Sinosure, and a number of Indonesian banks and leasing providers to offer our customers more creative leasing and insurance solutions that meet their needs.

Looking toward the future, LiuGong is planning a number of new credit and financial solutions which includes customized leasing, diverse payment scheme, etc. for our key customers and dealers.



# INTELLIGENT GREEN ROAD CONSTRUCTION SOLUTIONS

## Electric Product Solution for Road Construction



Type	Model	Battery Capacity	Operating Weight	Bucket Capacity/ Bucket volume	Scraper Width	Centrifugal Force
Electric Loader	820TE, 856HE	423 kWh	22,280 kg	3.5 m <sup>3</sup>	/	/
Electric Excavator	9018FE, 9027FE, 906FE, 922FE, 924FE	423 kWh	24,100 kg	1.0 m <sup>3</sup>	/	/
Motor Grader	4230DE, 4280DE	282 kWh, 423 kWh	19,300 kg, 24,000 kg	/	3,960 mm, 4,270 mm	/
Electric Road Roller	6626FE	466 kWh	26,000 kg	/	/	400/350 kN
Electric Slip	385BE	101 kWh	4,820 kg	0.5 m <sup>3</sup>	/	/

### Ultra-long Endurance, Low-Carbon & Environment Protection

Equipped with large-capacity battery, providing ultra-long endurance, electric energy-driven, using lithium iron phosphate batteries, zero emissions, low noise, and intelligent temperature control.

### Intelligent Matching for Optimal Efficiency

LiuGong's unique whole-machine matching technology and motor control technology ensure optimal machine performance under rigorous operation conditions. Greater traction force increases significant efficiency advantages under heavy-duty applications. Optimal matching of the entire machine with the motor ensures operation in the high-efficiency zone, achieving significant energy savings.

### High Efficiency and Energy Saving

The independently innovated energy recovery system can achieve reverse charging of the battery during gear shifting or braking, saving 15-20% energy.

### Economically Robust

Utilizes maintenance-free batteries, with low overall machine maintenance costs and long maintenance cycles. Strong traction force and power, capable of handling heavy-duty mining applications with ease.

Reduces frequency of shovel adjustments, significantly improving efficiency. Lower operating costs compared to fuel-powered machines.

### Superior Cab

Spacious cab with high-quality interior, high-back shock-absorbing seats, sliding and tilting windows, makes operators feel more comfortable during long time working. Active noise reduction layout design plus multiple noise reduction measures reduce cabin noise by over 10 dB(A). Intelligent temperature control, three-dimensional air supply for heating and cooling.



Intelligent Green Road Construction Solutions

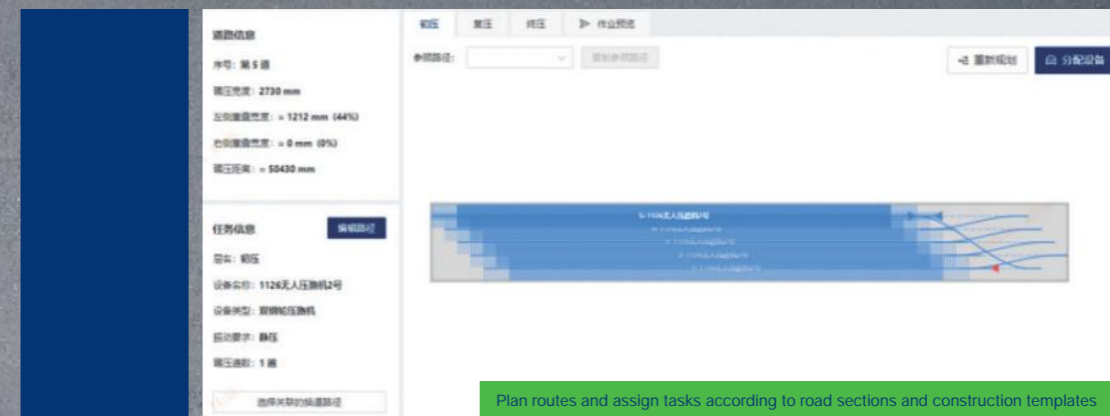
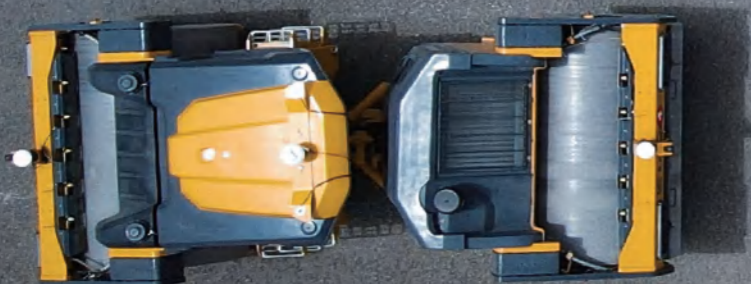
# Unmanned Road Construction Solution



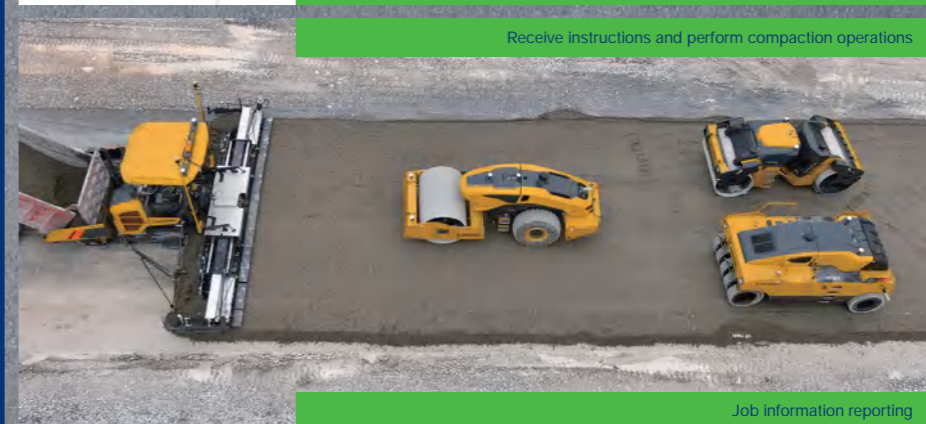
Trinity	Driverless
	Remote Control
	Manual Driving

Comprehensive solutions safeguard construction safety and efficiency

The promotion and application of a series of products such as pavers and unmanned road rollers ensure construction safety and improve construction efficiency.



Plan routes and assign tasks according to road sections and construction templates



Receive instructions and perform compaction operations

## Workflow

Job information reporting



Real-time monitoring



Intelligent Green Road Construction Solutions