



**ZOOMLION**

## **LTU Series**

### **Технические характеристики**

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## **LTU90G /H90G (2012) Asphalt Pavers Introduction**

New type LTU90G/H90G series asphalt pavers developed by Zoomlion are equipped with high-power high-reliability engines to meet the heavy-load working needs. All hydraulic drive and big closed-loop control could increase paving precision and anti-segregation capability. LTU90G/H90G series asphalt pavers are mainly used for asphalt concrete, as well as stabilization earth paving and RCC material. It is a hi-tech product with mechanical-electrical-hydraulic integration based on research on technical features of the pavers all round the world. The complete machine has reached to imported product level in reliability respect and is ideal equipment in terms of road construction, due to its advanced performance, logical design, outstanding processing. Major components are all from world well-known brands.

### **I With modern technology and high precision paving, they are mainly used for high way asphalt paving.**

1. Adopts control system with display to automatically display each parameter of working condition, and then gives the alarm if failures occur.
2. Emergency control and remote monitoring to reduce the fault rate.
3. Electronically controls the screed lifting, lowering and floating via the panel to reduce the fault rate associate with handle control mode.
4. Major systems (such as traveling, spiral distributing, screed feeding) are driven by independent hydraulic driven both at the right and the left, with automatical control function. The factors is minimized which affect the paving accuracy to ensure paving stability and accuracy. Tamper pounding and screed vibrating are driven by hydraulic oil, with variable speed control function. This could be suitable for different working conditions.
5. Big closed-loop feedback controlling theory is applied to the leveling, traveling, spiral distributing and scraper feeding. Viz: the sensor will detect the working parameters, then feedback to the controlling unit, realizing precisely and automatically controlling.
6. Adopts imported controller specially used for big-scale pavers, ensuring the straight, constant speed traveling and smooth turning. It is equipped with start/stop control specially used for Zoomlion. Therefore the paving precision is high. This completely satisfies the rigorous paving requirements for high-way asphalt road.
7. Contact-type electronic-leveling controller could ensure the evenness and controlling layer elevation. As controller connectors are commonly used, users could expediently choose domestic or imported leveling system, or install latest contactless ultrasonic balance beam or laser scanning level control system. The technology and performance have reached the leading level of the world.

## **II. High reliability and strong capability to adapt to working conditions;**

1. Adopts Deutz engine, with 152kW of output power. The power reserve is more than other similar pavers, suitable for any paving situation, meeting requirements from tableland.

2. All major mechanisms (such as traveling, scraper feeder, spiral distribution, pounding and vibrating) are independent hydraulic driven and controlled, with low fault rate. Therefore it is safe and reliable.

3. Spiral system adopts low-speed large-torque motor original imported from France, or could be driven by heavy-load inclined axle motor, with stabilized starting and high efficiency. The spiral distributor is of anti-segregation (optimized design of blade shape, paving slot width and height, widely range of adjusting and well-adapted). The spiral bearing seat is small and paving slot is smooth. This could effectively prevent against segregation.

4. Optimal design of hydraulic system and automatic temperature control could make sure the quick start at low temperature and the quick heat dissipation at high temperature. This could ensure the optimal temperature of paver working.

5. Feeding height of hopper is relatively low. The hopper steel thickness is up to 16mm, with high rigid. It is equipped with independent support at one side to avoid transmit mixer damaging the paver.

6. Adopts part 3 transfer case originally imported from Germany with a little heat dissipation. The installing space between the master pump and its oil pipe is large for maintenance. The coupling is also original imported form Germany, ensuring reliable paving.

7. According to the high load condition to carry on the design, the key system can withstand the 40MPa pressure; Hydraulic main pump for traveling, spiraling, tamping adopts Germany Rexroth or USA Saue variable axial piston pump. Reducer and motor adopts famous brand from USA, Germany and Italy. It is featured with high bearing load, reliability and long life.

8. Drive wheels of walking system adopt USA CAT standard gear shape made by forged alloy steel. It is of more walking reliability than that made by cast steel.

9. Top quality of material:

1) Structural parts- high-quality, low- alloy, high-strength steel.

2) Baseboard of screed etc - special steel of high- abrasion imported from Sweden or Japan.

3) Tamper head- die steel used for special wire drawing.

4) Bearing seat, tamper seat, connecting rod- medium carbon steel of completely modulated.

5) Spiral blade- chromium-alloy abrasion-resistance cast iron.

## **III Easy to use and operate, high working efficiency ;**

1. If the failure of control system occurs, please carry out emergency operation or movement via control panel.

2. Centralized automatically lubricating system is controlled by a computer to ensure sufficient lubricating of each mechanism. Therefore the maintenance workload will be greatly reduced.

3. To make sure the stability of paving quality during the paver stopping, please push

forward the walking handle, and then all major mechanisms will automatically walk at the preset speed only after the walking, spiraling, scraper, vibrating, and tamper are set as automatic status. This ensures the continuity of paving thickness and density. It's easy to operate.

4 With smart operation desk, it could rotate around medium box by 180° to facilitate the driver's work. Logical button layout on the panel is easy for driver to understand and operate.

5. Hydraulic control valve block is located outside of fuel tank; therefore the driver could carry out inspection standing outside of paver. Each hydraulic sub-system is mounted with a quick testing connector, facilitating the driver checking and debugging system pressure, and then ensuring the hydraulic system properly working.

6. Diesel inlet and hydraulic oil inlet are located in cab. If opening the engine hood, you could see the whole drive system to facilitate the maintenance.

7. Zoomlion's all master pumps are located on the transfer case and PTO. The driving equipment at the fan end is canceled, simplifying the structure and increasing reliability and adaptation.

8. Centralized automatically lubricating system is controlled by a computer to ensure sufficient lubricating of each mechanism. Therefore the maintenance workload will be greatly reduced.

9. The height of the Spiral system could be adjusted by hydraulic, To reduce the labor intensity and fulfill various requirements of laying thickness.

#### **IV. Screed technical features:**

LTU90G paver is equipped with JPA screed (mechanical extended, heating of spitfire tube, double-tamper signal-vibration). The screed is optimally designed by a computer in strength and rigid respect. With 6-step adjustable pounding stroke, the paving density and evenness is very high. Deformation space satisfies the camber adjustment requirement. Wear-proof base-plate structure and connecting mode meet the box torsion equipment.

LTUH90G paver adopts two-stage telescopic screed, with basic width of 3m and basic telescopic width of 3-6m. Max. paving width is up to 9m after mechanical extension. One-sided telescopic stroke is driven by two hydraulic cylinders. There are 3 telescopic rod at one side to strengthen rigid. The whole screed has 4 telescopic cylinders, 6 rods, increasing the whole rigid.

LTUH90G paver is equipped with HFA fuel fan, screed of heating type double-tamper single-vibrator (heating system option) and electronic automatical ignition. It is featured with quick and even heating and windproof.

Optionally adopts HXB screed of gas heating type signal-tamper signal-vibrator. It is featured with quick heating speed, a few requirements for air pressure, automatical temperature control and energy-saving and environmental protection. It could preheat the tamper of which starting speed is quick

A set of horizontal pull rod or side tensioning cylinder is respectively installed on the front of machine frame (LH, RH) and on the outermost of screed (LH, RH). This greatly increases the screed levelness and could pave the ideal road surface even if there is a large paving resistance.

**Main technical parameters of LTU90G/H90G asphalt paver**

Paving width	2.5 ~ 9m (LTU90G) 3 ~ 9m (LTUH90G)
Basic paving width	3 m
Engine type/power	Deutz BF6M1013EC / 152Kw
Max. paving width	300mm
Paving speed	0 ~ 16m/min    stepless speed governor
Traveling speed	0 ~ 3Km/h    stepless speed governor
Theoretical productivity	800t/h
Number of tamper	2 pieces
Tamper frequency	0 ~ 25Hz    stepless speed governor
Vibrator frequency	0 ~ 50Hz    stepless speed governor
Camber adjusting	-1 ~ +3%
Density	
Stabilized earth	≥85%
Asphalt concrete	≥90%
Evenness	(asphalt concrete) 3mm/3m (stabilized soil) 4mm/3m
Traveling mode:	crawler type, bilateral independent drive
Hopper capacity	14t
Scraper feeder speed	20m/min
Spiral distributor diameter	φ420mm    φ360 mm
Spiral distributor speed	0 ~ 125rpm    stepless speed governor

Assembly Configuration Table

Index No.	Configuration description and model	Number of each paver	Manufacturer and material
1	Engine BF6M1013EC /152kW	1	Germany Deutz
2	part 3 transfer case	1	Germany ROGELBERG
3	Reducer GFT/CT/7C series, traveling	2	Germany Rexroth or USA Fairfield or Italy Bonfigiol
4	Spiral reducer RR710 two stage	2	Italy Reggiana Riduttori
5	Scraper reducer RR710 single stage	2	Italy Reggiana Riduttori
6	Track rail and track roller	1 set	Domestic famous brand
7	Bearing	1 set	Sweden, Germany or Japan
8	Rubber track shoes separated type 320	1 set	Taiwan Everpads
9	Centralized lubricating system	1 set	Germany Beka or Vogel
10	Wear-proof solenoid	1set	Imported from Sweden or Japan
11	Conveying chain, scraper	1set	Jiangsu Shuangling
12	Drive chain, spiral scraper	1set	Oversea brand
13	Spiral blade	1set	Domestic high wear-proof alloy
14	Structural parts	1set	High-strength manganese steel, high quality
15	Tamper head	1set	Die steel, special heat treatment, high quality

**Hydraulic System Configuration Table**

<b>Index:</b>	<b>Name and model</b>	<b>Number</b>	<b>Manufacture or material</b>
1	Hydraulic pump A10VG or HPV series or HIT, traveling	2	Germany Rexroth or Linde or USA Saue
2	Hydraulic pump A4VG or HPV series or HIP, spiraling	2	Germany Rexroth or Linde or USA Saue
3	Hydraulic pump AZPN or AP200 or SKP2, scraper	2	Germany Rexroth or Bucher or USA Saue
4	Hydraulic pump A4VG or HPV series or HIP, tamper	1	Germany Rexroth or Linde or USA Saue
5	Hydraulic pump A10VG or P124 or SNP3 or PRN, vibrating	1	Germany Rexroth or USA Permco or Saue
6	Auxiliary pump 0510 or AZPF or PRN	1/2	Germany Rexroth or USA Saue
7	Motor A6VE or 51C or H1 series, traveling	2	Germany Rexroth or USA Saue
8	Motor A2FM32 or MS08 or M32, spiral	2	Germany Roxroth or France Poclain or Hydroleduc
9	Motor OMTS series, scraper	2	USA Saue Danfoss
10	MOTOR A2FM or HMF or M45 or A2F, Tamper	1/4	Germany Rexroth or Linde or France Hydroleduc or <b>domestic</b> famous brand
11	Motor A2FM or KM1, vibrating	1/4	Germany Rexroth or France Clark
12	Hydraulic rubber hose	1 set	USAPARKER' rubber hose, joint and seals
13	Hydraulic valve	1 set	Germany Rexroth or USA SUN

**Electrical System Configuration Table**

Name	Configuration	Number	Description
Sensor, longitudinal wave	Germany MOBA G176	2	Joint completely mating with laser scanning controller
Sensor, transverse wave	Germany MOBA S276	1	Joint completely mating with laser scanning controller
Sensor, ultrasonic	Germany MOBA TYPE62	2	Joint completely mating with laser scanning controller
External control table	Zoomlion	2	
Toggle switch	USA Honeywell		High reliability and long service life
Controlling handle	Germany GESSMANN		High reliability and long service life
Button	France Schneider		High reliability and long service life
Relay	Germany HELLA		High reliability and long service life
Controller, traveling	Germany iffm Controller	1	Traveling controller specially used for pavers. Detecting the working condition at the site Checking the failure and setting parameter by portable PC or BBC. Realizing the completely closed-loop control and increasing the backward closed-loop control.
Display	Germany iffm display		



**Product Technical Standard**

1	GB/T16277-2008	Asphalt Concrete Paver
2	GB50092-1996	Code for Construction and Acceptance of Asphalt Pavement
3	GB/T3766-2001	Hydraulic Fluid Power-General Rules Relating to Systems
4	GB/T3846-1993	Emission Standard for Smoke at Free Acceleration From Vehicle With Diesel Engine
5	GB/T4094.2-2005	Electric Vehicle-Symbols Controls, Indicators and Tell-tall
6	GB/T4798.5-1991	Environmental Conditions Existing in the Application of Electric and Electronic Products Ground Vehicle Installations
7	GB7258-2004	Safety specifications for power driven vehicles operating on roads
8	GB/T13802-1992	The Current Method of Sound Measurement of a Confusion of Voices of Radiate of Machine
9	GB/T13325-1991	Noise Emitted by Machinery and Equipment--Guidelines for the Preparation of Test Codes of Engineering Grade Requiring Noise Measurements at the Operator's or by Stander's Position
10	QC/T413-2002	Basic Technical Requirements for Automotive Electric Equipment
11	JG/T69-1999	Liquid Sample Extraction Method for Hydraulic Oil Tank
12	JG/T70-1999	counting Method of Microscope for Particle Contamination in Oil Fluid
13	JG/T5035-1993	Solid Contamination Cleanliness Classes for Fluids in Construction Machinery and Equipment
14	Q / OKAM103009-2003	Asphalt Concrete Paver

# **LTU120G Series Asphalt Pavers Introduction**

New type LTU120G series asphalt pavers developed by Zoomlion are equipped with high-power high-reliability engines to meet the heavy-load working needs. All hydraulic drive and big closed-loop control could increase paving precision and anti-segregation capability. LTU120G series asphalt pavers are mainly used for asphalt concrete, as well as stabilization earth paving and RCC material. It is a hi-tech product with mechanical-electrical-hydraulic integration based on research on technical features of the pavers all round the world. The complete machine has reached to imported product level in reliability respect and is ideal equipment in terms of road construction, due to its advanced performance, logical design, outstanding processing. Major components are all from world well-known brands.

## **Main technical features of LTU120G asphalt pavers**

### **I . With modern technology and high precision paving, they are mainly used for high way asphalt paving.**

- All hydraulic drive

The traveling, spiral distributing and scraper feeding are driven by right and left-independence hydraulic cylinder and could be automatically controlled. This could make sure the high paving precision via stabilizing the paving process and minimize the factors of impairing the paving precision. The tamper vibrating and screed vibrating are of stepless speed governing function, meeting different working conditions

- Big closed-loop electrical controlling system

Big closed-loop feedback controlling theory is applied to the leveling, traveling, spiral distributing and scraper feeding. Viz: the sensor will detect the working parameters, then feedback to the controlling unit, realizing precisely and automatically controlling.

- Walking system adopts imported controller specially used for large pavers, ensuring the straight and even speed walking, smooth steering and accurate paving, fully meet rigorous paving requirement of the asphalt layer of highway.

- Contact-type electronic-leveling controller could ensure the evenness and controlling layer elevation. As controller connectors are commonly used, users could expediently choose domestic or imported leveling system, or install latest contactless ultrasonic balance beam or laser scanning level control system. The technology and performance have reached the leading level of the world

- Dual-cooler of hydraulic oil could increase heat dissipating capability by 30% when compared with same type pavers. The pavers even could work on the Gobi desert in summer.

### **II . With high reliability and high capability of adapting working conditions, the pavers**

**could be widely used in paving of asphalt road and basic-level road of stabilized soil.**

- All major mechanisms (such as traveling, scraper feeding, spiral distributing, pounding and vibrating) are independent hydraulic driven, with stepless speed governor.
- Deutz BF6M1013FC 6-cylinder center-cooling engine, with 188kW of output power. The power reserve is more than other similar pavers, suitable for any paving situation, meeting requirements from tableland.
- Part 3 transfer case is original imported from Germany, top quality and less heat emission. The layout of each port is reasonable. The installing space between the master pump and its oil pipe is large for maintenance. The coupling is also original imported from Germany, ensuring its reliability.
- Master pump of major hydraulic system is of variable axial piston pump, belonging to original imported heavy-load type and with load bearing capability of 40MPa. When compared with variable axial piston pump of medium-load series, it has increased overloading capability, long service life, reliable usage, fully meeting heavy-load working.
- Spiral system adopts low-speed large-torque motor original imported from France, or could be driven by heavy-load inclined axle motor, with stabilized starting and high efficiency. The spiral distributor is of anti-segregation (optimized design of blade shape, paving slot width and height, widely range of adjusting and well-adapted). The spiral bearing seat is small and paving slot is smooth. This could effectively prevent against segregation.
- Noise reduction technology could lower the working noise.
- Hopper side support equipment and extended front push roller are specially designed for the large hopper to meet the large capacity of asphalt transportation.

### **III. Easy to use and operate, high working efficiency**

- To make sure the stability of paving quality during stopping, please push forward the walking handle, and then all major mechanisms will automatically walk at the preset speed only after the walking, spiraling, scraper, vibrating, tamper are set as automatic status. This ensures the continuity of paving thickness and density. It's easy to operate. Completely automation operation greatly reduces the labor, speeds up the paving process and increases service efficiency. All hydraulic paver does not need frequently gear shifting, starting and stopping associated with mechanical pavers, avoiding worker operating fault and reducing paving quality.

- Large volume fuel tank is adopted, with the inlet positioned outside. It's easy to fill the fuel and could work for long time.
- Zoomlion's all master pumps are located on the transfer case and PTO. The driving equipment at the fan end is canceled, simplifying the structure and increasing reliability and adaptation.
- Each hydraulic sub-system is mounted with a quick testing connector, facilitating the driver checking and debugging system pressure, and then ensuring the hydraulic system properly working.
- The control bench could move to the right and to the left. The driver could choose the left or the right operating position. The driver's seat could move to the outside of cabin, widening the view. External control table at both sides of screed could facilitate the co-driver operating.
- Inaccessible oil inlet and outlet have been thoughtfully extended to the handy position.
- The amount of asphalt supply in paving slot will be detected by ultrasonic sensor. The spiraling speed could be stepless adjusted.
- Scraper position sensor will control its starting and stopping automatically or manually.

#### **IV. Convenient maintenance, top quality of material, long service life and lower cost during later period**

- Centralized automatically lubricating system is controlled by a computer to ensure sufficient lubricating of each mechanism. Therefore the maintenance workload will be greatly reduced.
- The patent technology is introduced into the scraper system, with easy maintaining, dismantle and installation. There is no blocking when scraping asphalt.
- Drive wheels of walking system adopt USA CAT standard gear shape made by forged alloy steel. It is of more walking reliability than that made by cast steel.
- The ceiling and doors at both sides could be open, getting access to the power system, hydraulic unit and electrical unit. It is very convenient to carry out the maintenance work such as replacing the filter element.
- Centralized driving is adopted. All oil pumps are installed on the transfer case and engine PTO, simplifying the structure and facilitating the maintenance. The centralized driving is reliable and practical.
- Adopting original imported track shoes, with high abrasive resistance and long service life,

minimizing the maintenance cost during the later period.

- It is easy to the install, fix, adjust, tension and dismantle the front baffle board of screed, greatly alleviate the difficulty of cleaning screed.
- Top quality of material
  - 1) Structural parts- high-quality, low- alloy, high-strength steel
  - 2) Baseboard of screed etc - special steel of high- abrasion resistance imported from Sweden or Japan.
  - 3) Tamper head- die steel used for special wire drawing
  - 4) Bearing seat, tamper seat, connecting rod- medium carbon steel of completely modulated.
  - 5) Spiral blade- chromium-alloy abrasion-resistance cast iron.

#### **V . Screed technical features:**

LTU120G paver is equipped with JPA screed used for asphalt paver (mechanical extended, heating of spitfire tube, double-tamper single-vibration), or equipped with JPB single-tamper screed. The screed is optimally designed by a computer in strength and rigid respect. With 6-step adjustable pounding stroke, the paving density and evenness is very high. The base boxes (RH, LH) are effectively connected. Preload of pull rods (RR, FR) is two times than oversea famous brands. Deformation space meets the camber adjusting requirements. Abrasion-resistance soleplate structure and connecting mode meet the box torsion requirement.

A set of horizontal tensioner is respectively installed on the front of machine frame (LH, RH) and on the outermost of screed (LH, RH).This greatly increases the screed levelness and paves the ideal road surface even if there is a large paving resistance.

## Main technical parameters of LTU120G asphalt paver

Paving width	2.5 ~ 12m
Basic paving width	2.5 m
Engine type/power	Deutz BF6M1013FC / 188Kw
Paving thickness	0 ~ 300 mm
Paving speed	0 ~ 16m/min stepless speed governor
Traveling speed	0 ~ 3 Km/h stepless speed governor
Theoretical productivity	800t/h
Number of tamper	2 pieces
Tamper stroke	Front tamper 0/3/6/9/10/12 6-step adjustable Rear tamper 3/4/5/7/8/9mm 6-step adjustable (dual-tamper)
Tamper frequency	0 ~ 25Hz stepless speed governor
Tamper frequency	0 ~ 50Hz stepless speed governor
Camber adjusting	-1 ~ +3%
Density	≥90%
Evenness	2mm/3m
Traveling mode	crawler type, bilateral independent drive
Hopper capacity	14t
Scraper feeding speed	18m/min
Spiral distributor diameter	φ420mm φ360 mm
Spiral distributor speed	0 ~ 130rpm stepless speed governor
Outside dimension at transporting (LxWxH)	: 6515mm×2760mm×3100mm

## Assembly Configuration Table of LTU120G Asphalt Paver

Index No.	Configuration description and model	Number of each paver	Manufacturer and material
1	Engine BF6M1013FC /188kW	1	Germany Deutz
2	Transfer case 4372	1	Germany Stiebel
3	Traveling reduction gear GFT or CT50 series	2	Germany Rexroth or USA fairfield
4	With spiraling reduction gear RR810 or without spiraling reduction gear	2	Italy Reggiana Riduttori
5	Scraper reduction gear RR810	2	Italy Reggiana Riduttori
6	Track rail and track roller	1 set	UAS CAT original import or domestic brand
7	Bearing	1 set	Sweden, Germany or Japan

8	Rubber track shoes separated type 320	1 set	Taiwan Everpads
9	Centralized lubricating system	1 set	Germany Beka or Vogel
10	Cooling system: double-radiator	1 set	AKG or domestic brand
11	Wear-proof solenoid	1set	Imported from Sweden or Japan
12	Conveying chain, scraper	1set	Jiangsu Shuangling
13	Drive chain, spiral scraper	1set	Oversea brand
14	Spiral blade	1set	Domestic high wear-proof alloy
15	Structural parts	1set	High-strength manganese steel, high quality
16	Tamper head	1set	Die steel, special heat treatment, high quality

**Hydraulic Configuration Table of LTU120G (new type) Asphalt Paver**

Index No.	Configuration description and model	Number of each paver	Manufacturer and material
1	Hydraulic pump A10VG or HPV series, traveling	2	Germany Roxroth or Linde
2	Hydraulic pump A4VG or HPV series, spiral	2	Germany Roxroth or Linde
3	Hydraulic pump AZPN or AP200, scraper	2	Germany Roxroth or Bucher
4	Hydraulic pump A4VG or HPV55, tamper	1	Germany Roxroth or Linde
5	Hydraulic pump A10VG or PGP517, vibrating	1	Germany Roxroth or USA Parker
6	Auxiliary pump (cylinder and radiator) AZPF or PGP517	3/1	Germany Roxroth or USA Parker
7	Motor A6VE or 51C or H1 series, traveling	2	Germany Roxroth or USA Saue
8	Motor A2FM32 or MS08 series, spiral	2	Germany Roxroth or France Poclain
9	Motor OMTS series, scraper	2	Denmark Danfoss
10	MOTOR A2FM or HMF series, Tamper	1	Germany Roxroth or Linde
11	Motor A2FM16 or SNM2, vibrating	1	Germany Roxroth or USA Saue
12	Hydraulic rubber hose	1set	USAPARKER' rubber hose, joint and seals
13	Hydraulic valve	1set	Germany Rexroth or USA SUN

**Electrical Configuration Table of LTU120G (new type)Asphalt Paver**

Name	Configuration	Number	Description
Sensor, longitudinal wave	Germany MOBA G176	2	Joint completely mating with laser scanning controller
Sensor, transverse wave	Germany MOBA S276	1	Joint completely mating with laser scanning controller
Sensor, ultrasonic	Germany MOBA TYPE62	2	Joint completely mating with laser scanning controller
External control table	Zoomlion	2	
Toggle switch	USA Honeywell		High reliability and long service life
Controlling handle	Germany GESSMANN		High reliability and long service life
Button	France Schneider		High reliability and long service life
Relay	Germany HELLA		High reliability and long service life
Controller, traveling	Germany Rexroth or EPEC2023	1	Traveling controller specially used for pavers. detecting the working condition at the site, checking the failure and setting parameter by portable PC. Realizing the completely closed-loop control and increasing the backward closed-loop control.



## Product Technical Standard

1	GB/T16277-2008	Asphalt Concrete Paver
2	GB50092-1996	Code for Construction and Acceptance of Asphalt Pavement
3	GB/T3766-2001	Hydraulic Fluid Power-General Rules Relating to Systems
4	GB/T3846-1993	Emission Standard for Smoke at Free Acceleration From Vehicle With Diesel Engine
5	GB/T4094.2-2005	Electric Vehicle-Symbols Controls, Indicators and Tell-tall
6	GB/T4798.5-1991	Environmental Conditions Existing in the Application of Electric and Electronic Products Ground Vehicle Installations
7	GB7258-2004	Safety specifications for power driven vehicles operating on roads
8	GB/T13802-1992	The Current Method of Sound Measurement of a Confusion of Voices of Radiate of Machine
9	GB/T13325-1991	Noise Emitted by Machinery and Equipment--Guidelines for the Preparation of Test Codes of Engineering Grade Requiring Noise Measurements at the Operator's or by Stander's Position
10	QC/T413-2002	Basic Technical Requirements for Automotive Electric Equipment
11	JG/T69-1999	Liquid Sample Extraction Method for Hydraulic Oil Tank
12	JG/T70-1999	counting Method of Microscope for Particle Contamination in Oil Fluid
13	JG/T5035-1993	Solid Contamination Cleanliness Classes for Fluids in Construction Machinery and Equipment
14	Q / OKAM103009-2003	Asphalt Concrete Paver



**ZOOMLION**

По вопросам продаж и поддержки обращайтесь:

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