



ZOOMLION

SUPER130

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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SUPER130 Asphalt Pavers Introduction

Super 130 asphalt pavers is a hi-tech product with advanced mechanical-electrical-hydraulic integration developed by Zoomlion based on research on technical features of the pavers all round the world and concentrate on all advantage of Zoomlion's paver, reach to even part exceed the most advanced technical level of the world, mainly used for asphalt concrete paving, also meets paving requirement of road stabilizing material and RCC material, especially suits for asphalt surface layer paving; meets paving requirement of high-evenness and high anti-segregation.

Major technology characteristic:

Modern technology and high precision paving:

I Excellent paving quality:

- Super 130's engine is powerful, adopts America original import Engine about 186KW.
- In accordance with the high load condition design, the paving width up to 13m, paving thickness up to 350mm, paving productivity up to 900t/h.
- The Structure design of screed adopts super strength, width longer than similar about 50mm in order meet the demand of paving, also adopts distinctive support means to realize rigid support, prevent screed deform, besides enhance the evenness .
- Design of long rack and hopper increase the capacity of gets material and work stability.

2. Advance control:

- Adopts CAN bus automatic electronic management, through the display and touch keyboard control panel to realize the parameters setting、adjusting and other function of walking system and other systems.
- Automatic learning and correcting poor function; Make the paver automatic set and renew the parameters again after work several minutes.
- Multiple choosing menus about automatic paving model including Energy-saving model and different thickness paving model; The menus also could guide the less experienced driver pave the satisfactory road successfully.

- Spiral system lifting and lowering could be achieved automatically, spiral system lifting and lowering would come true by control the two hydro-cylinder to meet different demands of paving thickness, reduce the material segregation, convenient and fast.
- Automatic online fault diagnosis and detection; the parameters could be detected including: the rotate speed of engine、temperature, pressure of engine oil、walking velocity, spiral speed , temperature of hydraulic System, frequency of tamper and vibrator, etc, have the function of fault automatic diagnosis、give the alarm automatically (display show Chinese、flashing warning lights)
- Automatic data query capabilities and remote monitoring, query includes parameters setting, fault finding, engine hours, paving mileage and so on; using、maintenance, security alerts and other such information. With GPS positioning, remote data transmission, such as engine fault codes, the number of hours worked、paving mileage and so on. The real-conditions of paver could be transported to boss in accordance with demand, play the part of eyes and assistant of the boss.

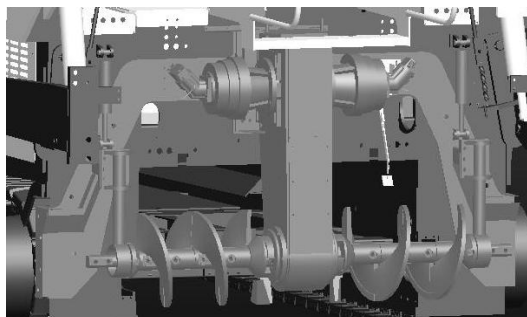
II. Excellent paving performance

1. Anti-segregation structure adopts patented design , with excellent overall width paving capacity;

- Anti-segregation curtain device adopts patented design, prevent big granule roll to outside;
- Spiral system lift automatically; the lift of Spiral control by two hydro-cylinder, meet the demand of pave different thickness, reduce material segregation, fast and convenience;
- Optimization design of the paving slot structure, support device and vane, ensure transport the material of paving slot to the whole paving width smoothly and effectively;
- Super 130 asphalt pavers with overall width paving technology solve the problem of transverse material segregation and the density uneven, make the paver meet



the demand of overall width paving use individual paver, prevent segregation in the middle juncture when two pavers paving side-by-side.



1. High evenness of paving

- Specially designed software startup and shutdown procedures, so that a smooth start-stop, prevent downtime screed sinking; startup to prevent screed climbing, avoid produce indentation when parking.
- The technology that combined with the screed pressure proportional control and a variety of paving modes, solve the paving flatness accuracy instability and other technical problems caused by the change of paving materials, thickness variations and other factors, improve the paver's ability to adapt to various working conditions.
- Specially design of enhance the structure of screed, ensure the transverse rigidity of screed, and also meet the demand of automatic leveling, improve the transverse evenness;
- The design of exceed—long track system ensure the adhering capacity and driving stability of paver.

III High reliability, energy saving;

1. Super reliable design, reduce the faults on the working, increase the service life of component:

- Design and calculate of each system of paver according to high-load working condition, including the walking system, Spiraling system, tamper system and other systems design by high-pressure system and globalization purchase, reducer and motor configuration than comparable imported equipment of high load-bearing capacity of a file to ensure safe and reliable operation of the system;

- Set the temperature control system of hydraulic system and double cooling system to ensure that the provisions in the construction of ambient temperature, which is to ensure the hydraulic system temperature startup performance, while ensuring the hydraulic system oil temperature constant at 85 degrees or less.
- Ensure the paver startup safety , super-cooling capacity , the reasonable control of the hydraulic oil to the best condition, the hydraulic system to improve reliability and extend the life of the work;
- Automatic control of hydraulic track tensioning system, the track system will relief the pressure automatically when the paver does not work, and the track system will keep in tension automatically when the engine is working; increase the service life of track system effectively to ensure accurate synchronization walking about the right and left tracks.

2. Energy saving

- Imported by United States caterpillar 186KW engine meet Euro III emissions requirements, reached the international advanced level, fit European emission standards;
- Adopts tailored noise reduction measures and muffler, greatly reduce the noise level of paver; while using a specially designed energy-saving mode and electronically controlled engine fuel system, optimizing power output, so that the fuel consumption levels reduced by 15 percent;
- Long hopper and long scraper conveyor system structure are adopted, increase the material storage capacity of the paver, besides meet the large-tonnage and small-tonnage trucks feed successfully, the material storage capacity of hopper up to 15 tons.
- The dimension of paver's fuel tank about 300L, would meeting the demand that continuous work 12 hours.
- After optimization design, screed's combustion system could adopts four combustion systems meanwhile to heat when paving longer width, burn fast and sufficiently, high-hot efficiency.

IV. Convenient operation, Easy maintenance, High work efficiency.

- 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, 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, speed up the paving process and increase service efficiency.

- The control bench could swing in 180 degree, The driver could choose suitable operating position conveniently. 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.
- Centralized automatically lubricating system is controlled by a computer to ensure sufficient lubricating of each mechanism. Therefore the maintenance workload will be greatly reduced.
- Have the faults automatic detection system ,
- 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 and elicit to the drive desk, facilitating the driver checking and debugging system pressure, and then ensuring the hydraulic system properly working.
- 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.
- The patent technology is introduced into the scraper system, with easy maintaining, dismantle and installation. There is no blocking when scraping

asphalt.

- 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.

IV. Technology features of the adopted screed:

The width of dedicated screed of SUPER130 reach 550mm, adopts patented design support pole connection, high-strength and high-stiffness. With 6-step adjustable temper stroke, the paving density and evenness is very high, with great anti-segregation capability.

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.

All oil inlet of screed be elicited to concentrate position, It's easy to fill the lubrication oil.

JPA screed used for asphalt paver (mechanical extended, heating of spitfire tube, double-tamper single-vibration) adopts four cylinders to heat when pave overall width 13m, air passage adopts special structure, with quick heating speed and facilitating the maintenance.

Optionally adopts JXA screed of gas heating type (mechanical extended, gas heating, double-tamper single-vibration), electronic automatic ignition, automatic temperature control, the heaters are installed inside of case, It is featured with quick heating speed, windproof., uneasy flameout, a few requirements for air pressure, high efficiency of gas.

Main technical parameters of SUPER130 asphalt paver

Paving width 2.5 ~ 13m

Basic paving width 2.5 m

Engine type/power CAT C7 ARCET / 186Kw

Paving thickness 0 ~ 350 mm

Paving speed 0 ~ 16m/min stepless speed governor

Traveling speed 0 ~ 3 Km/h stepless speed governor

Theoretical productivity 900t/h

Number of tamper 2 pieces

Tamper stroke Front tamper 0/2/4/5/7/8 6-step adjustable

Rear tamper 4mm

Tamper frequency 0 ~ 25Hz stepless speed governor

Vibrator frequency 0 ~ 55Hz stepless speed governor

Camber adjusting -1 ~ +3%

Density $\geq 90\%$

Evenness 2mm/3m

Traveling mode crawler type, bilateral independent drive

Hopper capacity 15t

Scraper feeding speed 18m/min

Spiral distributor diameter $\phi 420\text{mm}$ $\phi 360\text{ mm}$

Spiral distributor speed 0 ~ 120rpm stepless speed governor

The most purchased parts and elements inventory

NAME	Configuration description and model	Number of each paver	Description
Engine	CAT C7 ARCERT/186KW	1	Europe III emission , All-Electronic control, Transport the data by CAN bus, low fuel consumption, low phase noise, low contamination, High reliability
Transfer case	Part 3 transfer case is original imported from Germany ROGELBERG	1	The installing space of transfer case which has three export axle is larger than four export axle for installation and maintenance.
Traveling reduction gear	Germany Rexroth Reducer GFT series or USA Fairfield CT series or Italy Bonfiglioli 7C series	2	Large traveling traction force, adapt to the worst paving situation。Meeting the walking requirement when pave the slope and large thickness
Spiraling reduction gear	Italy original imported RR810 reduction gear or without spiraling reduction gear	2	Torque of driving is larger than other similar pavers ;
Scraper reduction gear	RR810 reduction gear, Original imported from Italy	2	Good performance on heat dissipation, high strength, long service life
Lubricating system	Centralized lubricating system, original imported from Germany	1 set	Centralized automatically lubricating system which original imported from Germany could realize continuous lubricate, progressive allocation lubricant and have clogged indicator, could reduce labor intensity significantly.
Rubber track	Overseas famous brand	1 set	high abrasive resistance, long service

shoes			life
Cooling system	Double-radiator	1 set	With double cooling capacity, ensure the hydraulic oil temperature will not exceed the provision even in the sweltering summer.
Wear-proof solenoid	Imported from Sweden or Japan	1 set	high abrasive resistance , high strength , high toughness , , the material of inside and outside uniformity.
Conveying chain, Scraper	Domestic famous brand	1 set	heavy-load chain, made from high-abrasion resistance material, long service life, and never block the material.
Drive chain, Spiral	Imported from Japan or England	1 set	High reliability, long service life
Drive chain, Scraper	Imported from Japan or England	1 set	High reliability, long service life
Spiral blade	Domestic high wear-proof alloy	1 set	high abrasive resistance , with a certain toughness.
Structural parts	High-strength manganese steel, high quality	1 set	high strength, small deformation, uneasy to damage.
Tamper head	Die steel, special heat treatment, high quality	1 set	small attrition, limitless life
Dimension of fuel tank	300 L		

- SUPER130 Asphalt Paver Hydraulic System Configuration Table**

NAME	Configuration	Number of each paver	Description
Traveling hydraulic pump	Germany Rexroth A10VG	2	The two crawler tracks are independently driven with left and right hydraulic pump , Turn around in 360 degrees, Closed-loop control the liner of move. long service life , low stoppage rate.
Spiraling hydraulic pump	Germany Rexroth A4VG series variable axial piston pump	2	Left and right spiraling institution are independent driven by two hydraulic pump , High reliability, its speed could stepless adjusted , inversion. Automatic control Auger height accurate.
Scraper hydraulic pump	Scraper hydraulic pump Germany Rexroth AZPN	2	Left and right independent driven are used for Scraper institution by two hydraulic pump, High reliability, Automatic control Auger height accurate., facilitate to operate.
Tamper hydraulic pump	Tamper hydraulic pump A4VG series variable axial piston pump	1	The Tamper speed could be stepless adjusted by electricity proportion. .
Vibrating hydraulic pump	Vibrating hydraulic pump Germany Rexroth A10VG series	1	The Vibrating speed could be stepless adjusted by electricity proportion.

Other hydraulic pump	Germany Rexroth 、 Italy Marzocchi	3	High reliability and long service life
Traveling motor	Germany Rexroth A6VE or USA Saue H1 series	2	Two-point control variable motor
Spiraling motor	Germany Rexroth A2FM inclined axle motor	2	High pressure and heavy-load, Good performance of startup, high efficiency
Scraper motor	Denmark Danfoss OMTS series motor	2	Good performance of low speed startup, high efficiency
Tamper motor	Germany Rexroth A2FM inclined axle motor orLinde HMF series motor	1	High pressure, heavy-load and high efficiency
Vibrating motor	Germany Rexroth A2FM inclined axle motor	1	High pressure, heavy-load and high efficiency
Hydraulic rubber hose	USA PARKER' rubber hose, joint and seals	1 set	Without leakage, without blowout.
Hydraulic valve	Germany Rexroth、 Bosch, USA Saue etc import parts	1set	High reliability, Advanced technology, long service life.
Cooling system	Double-radiator		The temperature of hydraulic system will not exceed normal even in the worst condition.

- SUPER130 Asphalt Paver Electrical System Configuration Table**

Name	Configuration	Number of each paver	Description
Sensor, longitudinal wave	Germany MOBA Rotary sensor ,CAN	2	Joint completely mating with laser scanning controller
Sensor, transverse wave	Germany MOBA Slope sensor ,CAN	1	Joint completely mating with laser scanning controller
Sensor, ultrasonic	Germany MOBA MOBA-Sonic III	2	Joint completely mating with laser scanning controller
External control table	Zoomlion	2	
Toggle switch	Japan 日开		High reliability and long service life
Controlling handle	Germany GESSMANN		High reliability and long service life
Relay	Germany HELLA		High reliability and long service life
Controller, traveling	RC6 Controller		Traveling controller specially used for pavers.
The control bench Processing Unit	EPEC2024, Original imported from Germany		Original imported from Germany , Detecting the working condition at the site, Checking the failure and setting parameter. Realizing the completely closed-loop control .
The control bench	The push-button design by waterproof film. The whole system transport the signal from CAN net.	1	Small structure, , The date transport fast and stable, High reliability, preserve easily.

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

The logo for ZOOMLION, featuring the word "ZOOMLION" in a bold, dark blue, sans-serif font. The text is centered within a light green rectangular background that has a diagonal cut on its right side.

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