

SOLID TO SUCCEED



Pneumatic Roller

XP165U



400-110-9999

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XP165U pneumatic tire roller is a medium-tonnage pneumatic tire roller produced according to European market requirements, which will take pneumatic tires as working device for compacting paved materials. The pneumatic tire roller is mainly applicable for compacting operation of asphalt pavement, It is an ideal set of compacting equipment for building high grade highway, airport, port, dam and industrial construction site.



Main Performance And Characteristics

1 Variable machine weight

- The weight of the XP165U is adjustable from 8.5 to 16 tons according to the needs of European and American users. Water and sand, which are easily available on construction sites and other places, are used as the materials for counterweight adjustment, together with the mix counterweight blocks to achieve a variety of combinations from 8.5 to 16 tons, and the weight of the whole machine is steplessly adjustable to suit the needs of different working conditions.

2 Front wheel dual axle steering technology

- In line with international high-end competitors, our company has independently developed a dual-axle steering front wheel structure, i.e. each two tires rotate around their respective centres as a group. This structure can reduce the damage to the ground when the outermost tire of the front wheel is steering and improve the compaction quality. This structure has a front wheel steering angle of 30°, a sway angle of 5° and a tire float of ±50mm, which is at the same level as the international mainstream.

3 Dual axle drive technology

- Adopting the internationally advanced double-bridge drive technology, it can achieve larger climbing capacity and higher driving speed, the whole machine has strong driving capacity and stronger climbing capacity, which can reach more than 30%, while the speed of the whole machine can reach 19km/h, with high operating efficiency.

4 Electro proportional hydraulic drive technology

- Applied electric proportion control technology, the proportions of the drive system USES electric pump and electric motor, hydraulic pump + in the form of double motors, drivers driving lever control drive pump and motor of the swash plate Angle changes, implement the stepless change of pump displacement and motor displacement, steady speed and deceleration control switch, and then realize the soft start soft stop.

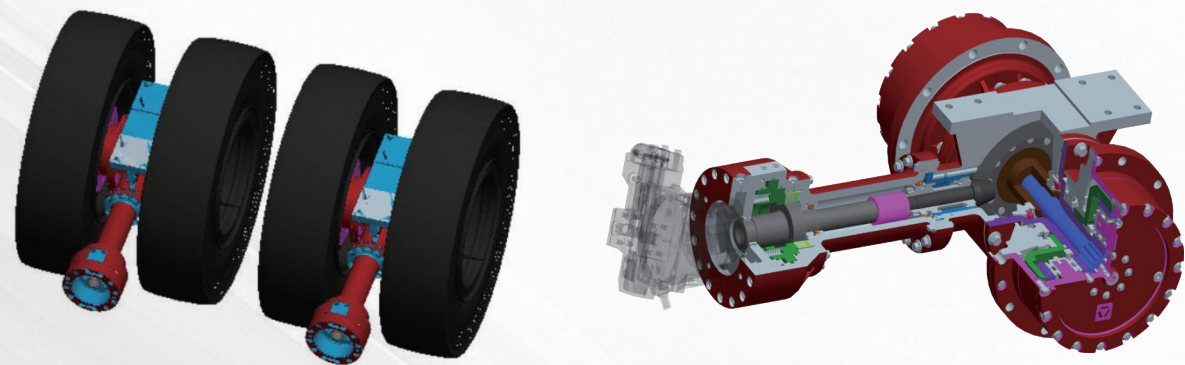
5 Smart-drive technology

- The lever is used to control the hydraulic system and engine speed at the same time, and the engine pump motor is matched. The speed gear knob, which is used to set the usual speed gears, is used as an operating signal to control the speed of both the engine and the hydraulic system. The operator simply sets the required working speed and operates the handle to the maximum position to correspond to the speed of the vehicle at the speed selected by the gear knob, and the engine and hydraulic system are optimally matched by the control system. Energy saving and automatic control are achieved. For the construction requirements, this mode of operation makes it easier to control the driving speed, and for different construction process requirements, the driver can quickly complete the setting and can steadily control the compaction speed. The integrated fuel consumption has been tested and verified to be 20% lower. Patent No.: ZL201710388541.X, Software copyright: 2017RS378429.



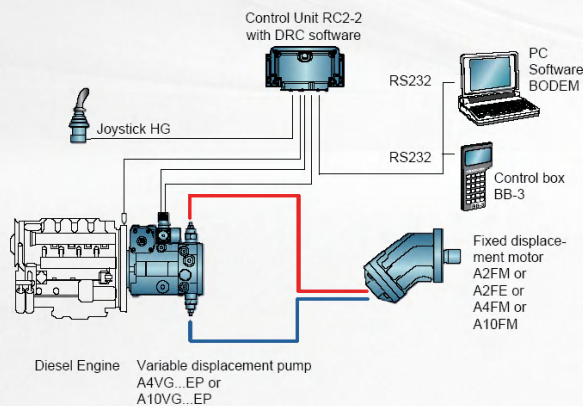
Dual axle drive technology

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Automatic control technology

Automatic operation control, includes:

- Soft start/stop control. The machine has buffer time setting for start and stop, soft start and soft stop, protect the compacted road surface from damage and improve the compacted quality.
- Multi-condition automatic control. The control system of the whole machine can adjust the working mode according to the load condition, and automatically enter the energy-saving mode during the flat construction, and also automatically enter the bad working mode such as climbing. Automatically reduce engine speed in low load conditions, reduce energy consumption, reduce noise.

Smart sprinkler system Automatic sprinkler function can realize the intelligent control of sprinkling and parking, and can automatically match intermittent sprinkler gear according to the speed. Make the sprinkling work according to the need to spray water and do not generate water.

Man-machine display system. Friendly man-machine interface realizes automatic system fault alarm, maintenance information query, system working status query.

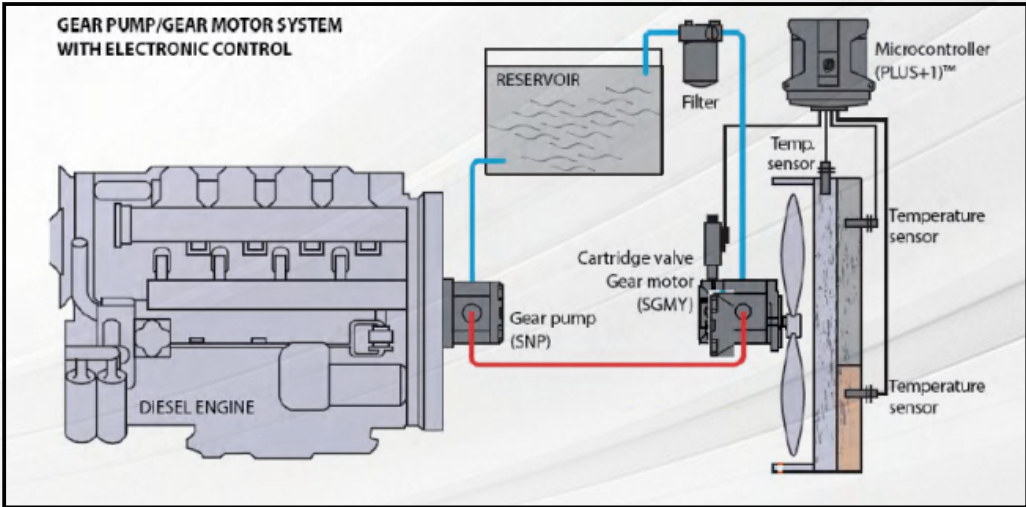
Remote management Through the Internet of things system, remote fault diagnosis and mechanical fault information can be collected, making fault diagnosis more rapid and accurate, greatly reducing the downtime of failure and improving the efficiency of after-sales maintenance.

Guide compaction auxiliary function, through the man-machine display to guide the driver reciprocating compaction, to ensure the reciprocating compaction distance. Auxiliary driver reduces repetitive over-compaction and improves compaction efficiency.



Energy saving and environmental protection technology

- Power transmission system energy saving matching technology. The transmission system adopts the form of high transmission efficiency hydraulic pump + double hydraulic motor + double reducer, and the configuration of electric proportional pump and motor, matching the engine optimal fuel working area, to achieve energy saving.
- Engine heat dissipation adopts hydraulic automatic control independent heat dissipation system, automatically adjusts fan speed according to engine water temperature, hydraulic oil temperature, medium cooling temperature and so on, reduces the noise of the whole machine from the source, and reduces energy consumption.



Human-machine engineering design

Imported high-grade rotary sliding seat, easy for edge compaction. Ergonomic imported electronic control joystick, more comfortable to operate. 5.7-inch color liquid crystal display, real-time monitor the whole machine status



Air pressure intelligent control

The tire pressure intelligent control technology enables the driver to adjust the tire pressure at any time according to the change of the compactness of the compacting material, improving the operating range and compaction efficiency of the equipment; The tire pressure intelligent control system can make the tires of the roller inflate evenly, ensure the flatness of the whole machine and improve the compaction quality. Patent No. ZL201420108062.X

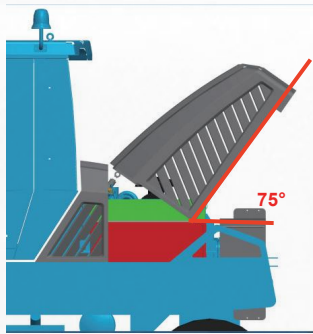
Advantages:

- 1)Pressure monitoring and control system can control the system pressure more accurately, and 7 steps are selected;
- 2)The operator chooses the compaction mode of the roller according to the compaction material, and realizes automatic pressure control by selecting the pressure value of the system, which is easy to operate and reduces the labor intensity of the work;
- 3)Through the real-time monitoring and control function of the control system, ensure the tire compaction performance, save the operator's artificial monitoring of the system, avoid distracting the operator's attention, prevent the occurrence of safety accidents.



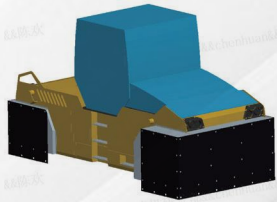
Good maintainability

Integral box structure of the machine, the maintainability design of the key parts of each system, opening door, electronic control rearward overturning large hood, etc. making it convenient for the maintenance and service of the equipment.



Insulation skirt

Thermal insulation skirt can form a semi-closed space in front and rear tires in addition, so as to ensure that the air around the tire keeps a higher temperature, usually at least 30°C higher than without thermal insulation skirt, prevent asphalt bonding, but also reduce the amount of anti-adhesive spray.



Double spray system of isolator and water

Spraying system includes sprinkler system and isolator spraying system.

Sprinkler system adopts intelligent electronic control sprinkler, using construction machinery special water pump, a working pump at the same time to the front and rear wheel sprinkler. Intermittent intelligent sprinkling technology, through PLC control, adjust the sprinkling, intermittent interval time to adjust the water, at the same time to ensure the sprinkler atomization effect, and can realize the intelligent control of sprinkling, parking water stop.

The isolation agent spraying system and the sprinkler system share a set of filters and pumps, through the electric control valve to realize the driver in the cab to choose the sprinkler or spray isolation agent, with intermittent spraying control.

Family appearance modeling

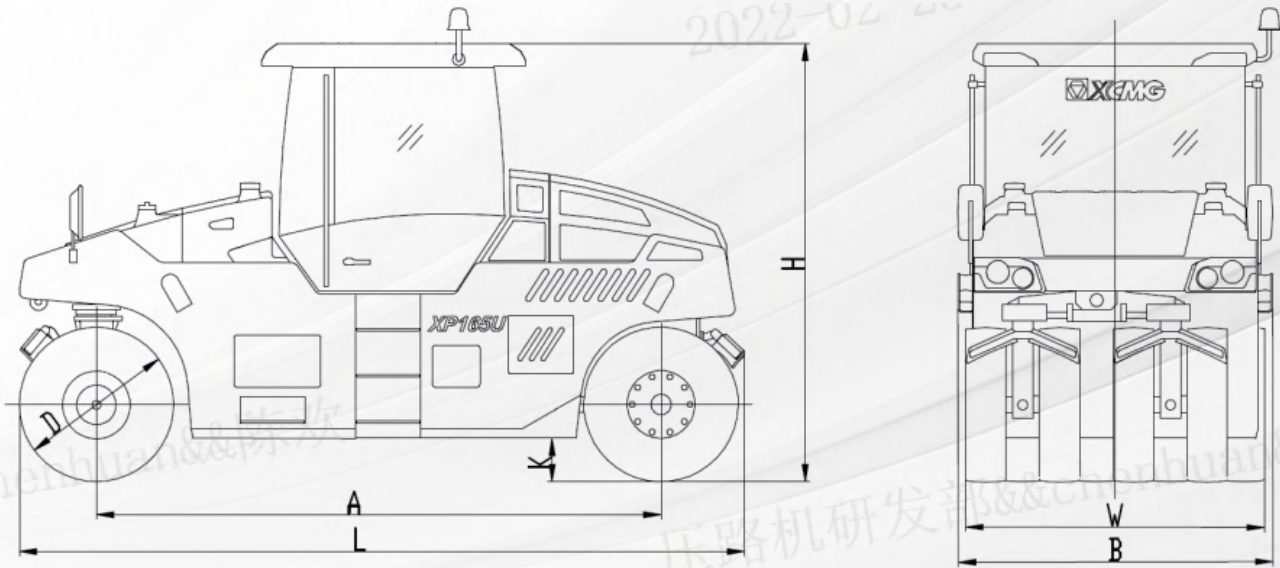
Standard foreign brand high-end tire roller, new streamlined appearance design, high-end, fashion, and XD, XS series to form 5 series of family appearance.



Main Technical Parameters

Items	Content	Unit	XP165U
Weights	Maximum operating weight(wet sand + counterweight block)	kg	16000
Parameter	Operating weight (incl. roof, excl. counterweight)	kg	8500
	Operating weight (incl. water counterweight)	kg	10850
	Operating weight(incl. dry sand counterweight)	kg	12000
	Operating weight(incl. wet sand counterweight)	kg	13200
	Operating weight(incl. water + counterweight block)	kg	13650
	Operating weight(incl. dry sand + counterweight)	kg	14800
Propelling	Working speed(F)	km/h	0~19
	Gradeability	%	30
	Minimum turning radius	mm	9000
	Ground clearance	mm	280
	Wheel base	mm	3900
	Steering angle	°	±30
	Oscillation of front wheel	mm	±50
	Braking distance	m	≤7.2
Compaction Performance	Drum width	mm	2075
	Overlapping quantity	mm	40
	Ground pressure	kPa	150~350
Engine	Model	-	CUMMINS F3.8
	Type	-	Turbocharger water-cooled electrical control, no EGR
	Rated power	kW	90
	Rated speed	r/min	2200
Tire	Spec.	-	11.00-20
	Ply rating	-	16
	Air pressure	kPa	400~800
Miscellaneous	Drive system	-	Hydraulic drive
	Service brake	-	Hydraulic brake
	Parking brake	-	Hydraulic multi-disc brake
	Steering system	-	Front wheel steering
	Steering control	-	Hydraulic

Appearance And Dimensions



Model	A	B	D	H	K	L	W
XP165U (Without thermal insulation skirt)	3900	2175	1080	3000	280	5100	2075
XP165U (thermal insulation skirt)	3900	2493	1080	3000	280	5282	2075

Optimum services , XCMG Guaranteed



Cummins engine



Genuine parts



Extension of warranty



Financial solutions



Maintenance contract



Telematics



Monitoring systems

Professional Integrated Complete Solutions

XCMG group has built a strong reputation based on the quality, reliability and durability of its construction machinery.What’s more, XCMG has gradually established a service network to constantly provide its local integrated and highly efficient complete solutions for all users.

Full range of services ready for you

In order to respond to your needs as fast as possible, XCMG experts are on their way to your job site from one of our facilities near you. Full range of servivices are available in order to reduce your total cost of ownership and increase your revenue.

XCMG Global Spareparts System

XP305S Pneumatic Tyre Roller

XP305SPNEUMATIC-TYRED ROLLER

XP305SPNEUMATIC-TYRED ROLLER

BACK DRUM

FRONT DRUM

GAS-ROUTE SYSTEM

TRANSMISSION SYSTEM

BODY ASSEMBLY

HYDRAULIC SYSTEM

OPERATING SYSTEM

ENGINE SYSTEM

SPRINKLER SYSTEM

DRIVER'S CAB ASSY

CAB ASSEMBLY

CONTROL BOX

CONTROL BOX ELECTRIC

ELECTRIC SYSTEM

SCRAPER SYSTEM

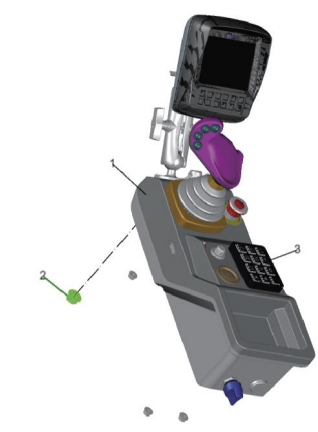
SHIELD FOR DIESEL ENGINE

OIL DRAIN SYSTEM

AC SYSTEM

MOUNTING ASSEMBLY

OIL SPILL SYSTEM



225704540 CONTROL BOX

Number	Material Encoding	Name	Quantity	Handle
1	225704532	CONTROL BOX STRUCTURE	1	
2	895238400	NUT M8	4	
3	225704541	CONTROL BOX ELECTRIC	1	

25438

Number of network equipment

239

Amount of work yesterday

390

Amount of work now

2907.3

Working hours yesterday

0

Access network today

0

Number of equipment fault alarms now

Overall OIL

Operating rate

Less than 30 hours

30-100 hours

More than 100 hours

Monthly Distribution of operating rate

Monthly average working hours of main models

Monthly workload of main models

Satellite

Full Screen

Map of Africa and Europe with location markers

XP305S Pneumatic Tyre Roller

XP305SPNEUMATIC-TYRED ROLLER

XP305SPNEUMATIC-TYRED ROLLER

BACK DRUM

FRONT DRUM

GAS-ROUTE SYSTEM

TRANSMISSION SYSTEM

BODY ASSEMBLY

HYDRAULIC SYSTEM

OPERATING SYSTEM

ENGINE SYSTEM

SPRINKLER SYSTEM

DRIVER'S CAB ASSY

CAB ASSEMBLY

CONTROL BOX

ELECTRIC SYSTEM

SCRAPER SYSTEM

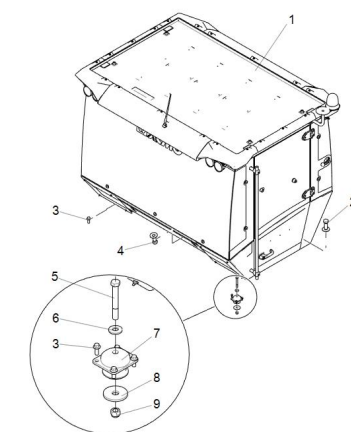
SHIELD FOR DIESEL ENGINE

OIL DRAIN SYSTEM

AC SYSTEM

MOUNTING ASSEMBLY

OIL SPILL SYSTEM



225704748 DRIVER'S CAB ASSY

Number	Material Encoding	Name	Quantity	Handle
1	225704791	CAB ASSEMBLY	1	
2	895096280	BOLT M16*45	9	
3	895094763	BOLT M10*25	16	
4	895048571	BOLT M16*30	2	
5	895046668	BOLT M16*120	4	
6	895391377	WASHER 16	15	
7	228901569	SHOCK CABSORBER	4	
8	229000495	BIG FLAT PLATE	4	
9	895238158	NUT M16	4	