

SOLID TO SUCCEED



Pneumatic Roller

XP163



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XP163 pneumatic tire roller is a small tonnage pneumatic tire roller produced according to 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, and industrial construction site.



Main Performance And Characteristics

1 General information

- 16 Tons total weight, front 4 and rear 5 tires layout, with front wheel for steering and rear wheel for drive.

2 Powerful and economic

- 86KW SC4H diesel engine, 1800r/min, igh margin of power, innovative low speed engine application, optimized engine curve, low fuel consumption, low noise, energy saving and environmental friendly.

3 Ground pressure adjustable in big range

- The machine weight can be between 20 tons and 16 tons by adding or removing four ballasts, to ensure the pressure equalizing of the front and rear wheels, adjust the ground specific pressure, expand the application range of the tire roller for more working conditions.

4 Reliable braking

- Emergency braking, service braking and parking braking are applied, forming two sets of independent braking systems, and can achieve interlock, high braking safety; Emergency braking and service braking adopt the first dual-circuit braking system in China, with reliable braking and quick response, braking distance is less than 6m; Parking brake can ensure the whole machine parking on the 20% ramp.

5 Homogeneous compaction technology

- Reasonable and rigorous design ensures uniform force on single tire, and the ground pressure difference between front and rear tires is controlled within 1% to ensure the compaction flatness; Front wheel swing mechanism ensures the uniform grounding pressure.



General information

16 Tons total weight, front 4 and rear 5 tires layout, with front wheel for steering and rear wheel for drive.

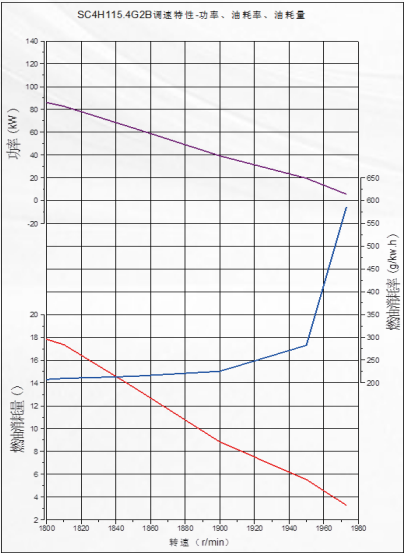
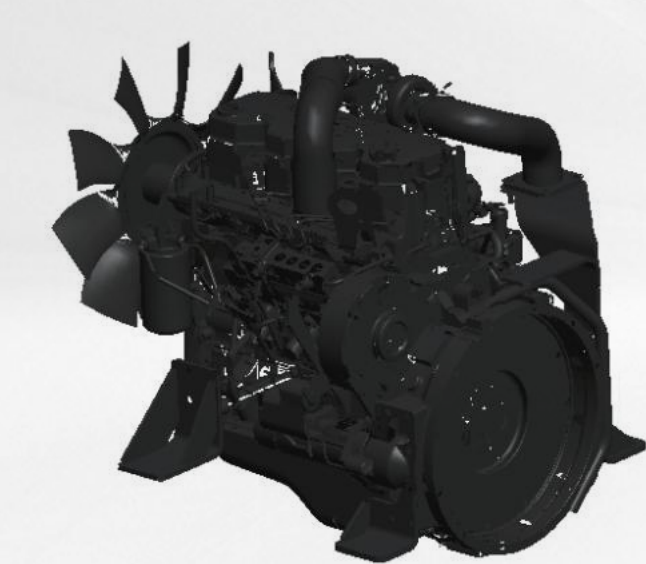
Powerful and economic

86KW SC4H diesel engine, 1800r/min, igh margin of power, innovative low speed engine application, optimized engine curve, low fuel consumption, low noise, energy saving and environmental friendly.

Engine complies with the requirements of CN- II emission standards.

Use automotive gear box+drive shaft+drive axle as drive system, reasonable match of drive ratio, high transmission efficiency.

Through a large number of tests under different working conditions and loads, the input and output characteristics of the gearbox and the engine were optimized and matched to improve the transmission efficiency and save 5 ~ 10% energy in compaction work.



Ground pressure adjustable in big range

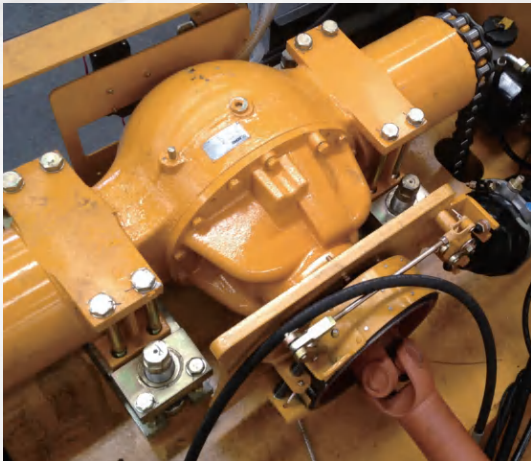
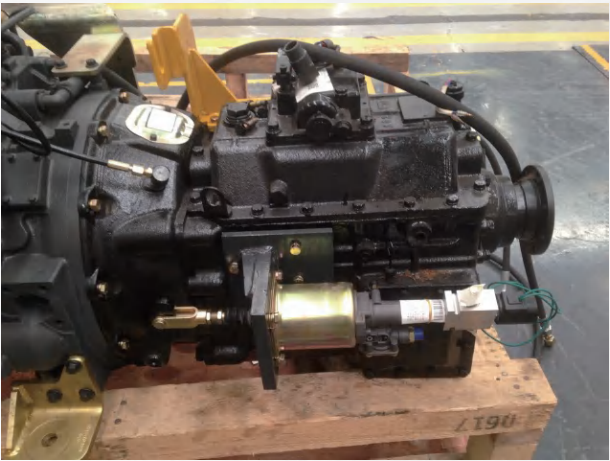
The machine weight can be between 20 tons and 16 tons by adding or removing four ballasts, to ensure the pressure equalizing of the front and rear wheels, adjust the ground specific pressure, expand the application range of the tire roller for more working conditions.

The ground pressure can also be adjusted from 150kPa to 300kPa by changing the tire pressure in order to improve the compaction performance.

High reliability

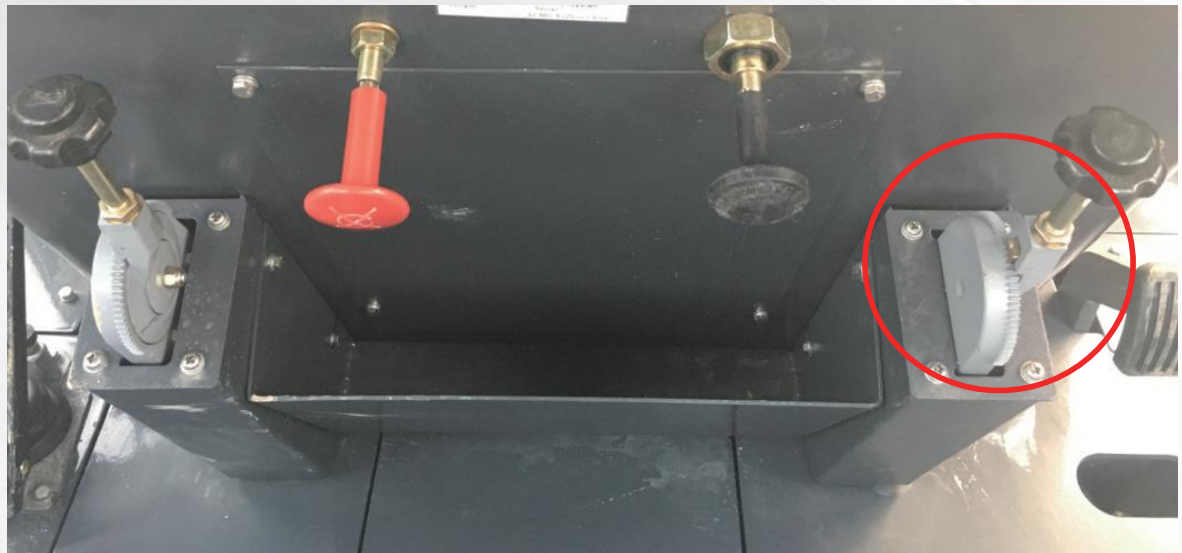
Well-known automotive style gearbox ensures long life time and low maintenance cost.

Shangchai engine, XCMG made drive axle wth lean manufacturing concept, is safe and reliable; long lifetime bearing and reasonably designed wheel set structure extended the durability and longevity of the front and rear wheels.



Dual-manipulation hand-foot-throttle linkage technology

XP163 adopts XCMG's patented hand and foot throttle linkage device and is equipped with two sets of hand and foot throttle manipulators in the left and right driver's seats. Drivers on both sides can control the engine through the hand and foot throttles at the same time, and the linkage is realized through XCMG's patented mechanism, which is safe, reliable, convenient and labor-saving, and has good operating comfort.



Comfort and easy

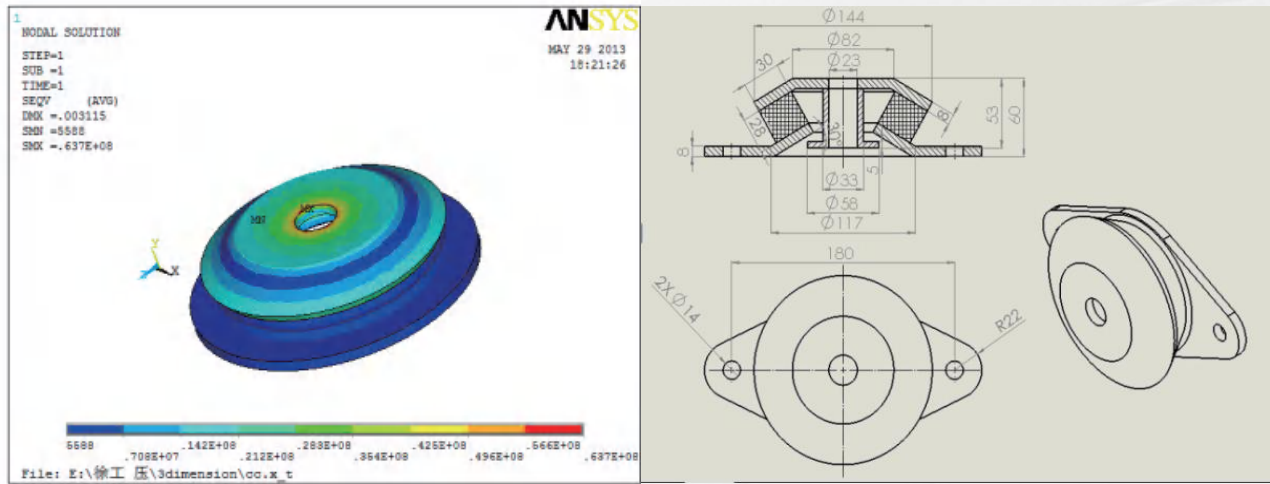
Full hydraulic steering, easy and flexible; Clutch control uses oil gas booster system, quick and labor-saving operation; Dual driving control position, improve the driver's visual field, improve the edge holding performance; Adopt combination instrument, fault alarm and information display are more intuitive, the control interface looks modern and clear.

Vibration and noise reduction technology

Noise and vibration reduction research and application is conducted with domestic well-known University.

Structure optimization of shock absorber and use of acoustic insulating material help to improve the driving comfort.

Analyze the components with ANSYS and other softwares, optimize the shock absorption device design, greatly reduce the noise, make XCMG products more competitive worldwide.



Good maintainability

Integral box structure of the machine, the maintainability improvement design of the key parts of each system, access door, rearward overturning cover plate, etc. making it convenient for the maintenance and service of the equipment.

Air filter, diesel oil and hydraulic oil refueling port and other places are designed with access hole, refueling and maintenance work can be completed from ground; Diesel engine oil filter, diesel filter, diesel engine, gearbox, drive axle and other discharging pipeline are designed for convenient maintenance; The rear cover plate can be lifted to facilitate the daily inspection and maintenance of key components such as drive axle, chain, water pump and brake cylinder.



Manual water sprinkling

The product standard electric controlled sprinkler system, using special pumps for construction machinery, safe and reliable.

It can be equipped with electric control intermittent intelligent sprinkler, equipped with PLC controlled 7 gears, the user can choose the right gear according to the construction conditions to adjust the water volume, while ensuring the spray atomization effect. 超大洒水箱容积570L左右。The capacity of the extra-large water tank is about 570L.

Brandnew appearance design

United with domestic professional institutions, the new streamlined appearance modeling design, modern and aesthetic; Big cab with wide view, spacious and bright, good visibility; The interior of the cab is designed with professional ergonomics, which greatly improves the operating comfort. Arched design at the bottom of the vehicle improves the traffic ability of the whole machine and facilitates transportation.

Won the special prize of modeling and appearance quality in 2013 Beijing international construction machinery exhibition and the national appearance patent (ZL201430048757.9).



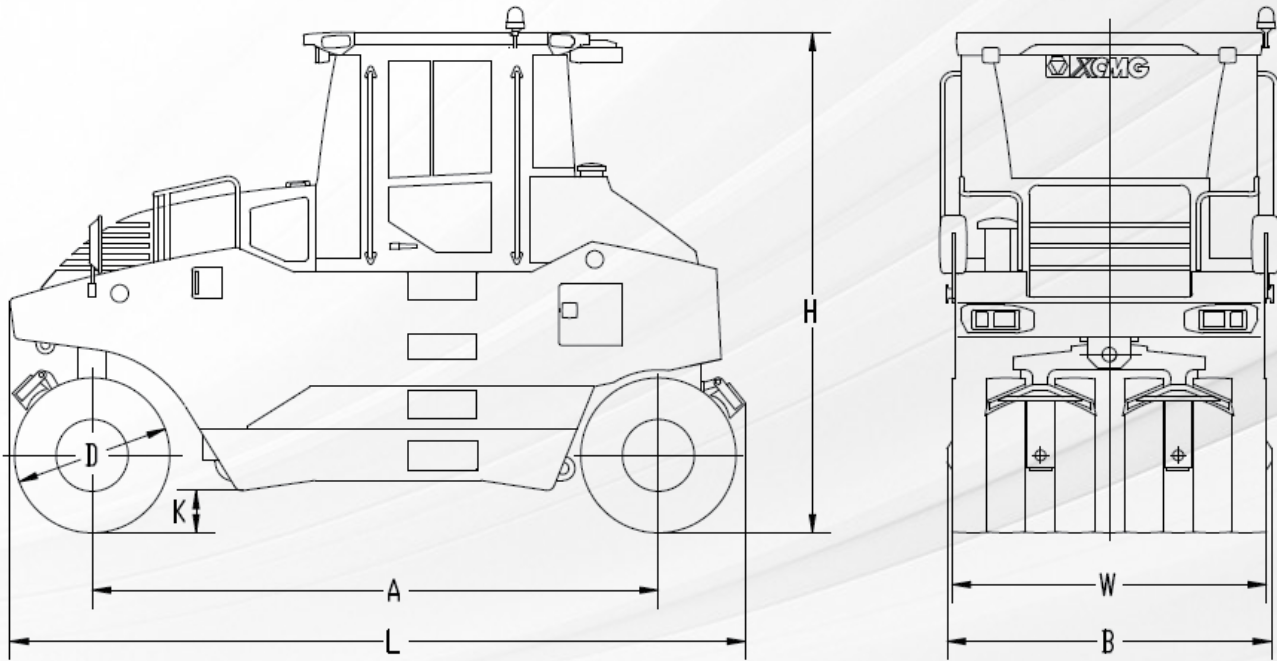
Diversified configuration

Standard cab with all around visibility, reversing image, electric sprinkler, air conditioning; Optional intermittent sprinkler function, intelligent control of water volume; Optional oil sprinkling system can improve road compaction quality and construction safety.

Main Technical Parameters

Items	Content	Unit	XP163
Weights Parameters	Maximum operating weight	kg	16000
	Water weight	kg	570
Driving Parameters	Working speed(F)	km/h	0~4.5/0~8.7/0~18.4
	Working speed(R)	km/h	0~4.5/0~8.7
	Gradeability	%	30
	Minimum turning radius(outer)	mm	7253
	Minimum Ground Clearance	mm	260
	Wheelbase	mm	3700
	Braking distance	m	≤5.9
Compaction Performance	Drum width	mm	2055
	Overlapping quantity	mm	30
	Ground pressure	kPa	150~300
Engine	Model	-	SC4H115.4G2B
	Type	-	Water-cooled in-line 4 cylinder diesel engine
	Rated power	kW	86
	Rated speed	r/min	1800
Tire	Spec.	-	9.00-20-12PR
	Ply rating	-	12
	Air pressure	kPa	600~650
Miscellaneous	Drive method	-	Mechanical transmission
	Service brake	-	Air over shoe brake
	Parking brake	-	Air control/Mechanical
	Steering system	-	Front wheel steering
	Steering control	-	Hydraulic

Appearance And Dimensions



Model	A	B	D	H	K	W
XP163	3700	2232	1015	3340	260	2050

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

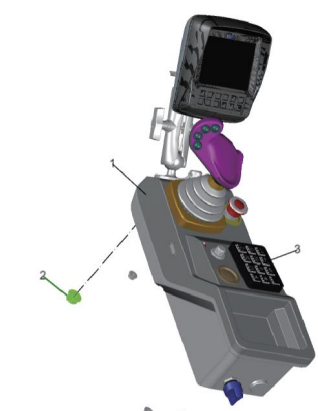
SHIELD FOR DIESEL ENGINE

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 M6	4	
3	225704541	CONTROL BOX ELECTRIC	1	

HOME PAGE

PRODUCT DEBUGING

PRODUCT MONITOR

serviceSupport

Statistical

RESOURCE MANAGE

AUTHORITY MANAGE

SYSTEM MANAGE

APP MANAGE

APP USER MANAGE

EQP LINK APPROVAL

EQP TRANSFER APPROVAL

REPAIR ORDER

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

Bar chart showing operating rate distribution

30-day Data

Map showing equipment locations

Monthly average working hours of main models

Bar chart showing working hours

Monthly workload of main models

Area chart showing workload

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

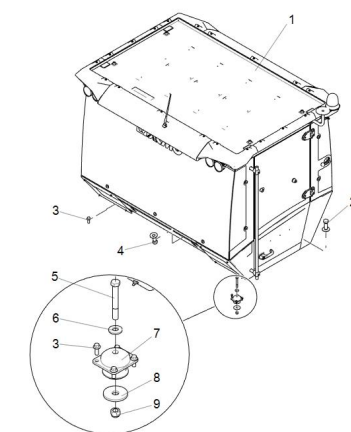
SHIELD FOR DIESEL ENGINE

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	895301377	WASHER 16	15	
7	228901569	SHOCK CABSORBER	4	
8	229000495	BIG FLAT PLATE	4	
9	895238158	NUT M16	4	