

SOLID TO SUCCEED



SINGLE DRUM VIBRATORY ROLLER

XS115H



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XS115H is a heavy-type, self-propelled, full hydraulic double drive single drum vibratory roller special designed for Indian market. This product fulfills the requirements of the ARAI stage v emission standards. Featuring high excitation force, high compaction efficiency and good compaction quality, it is widely used in compaction work on base layer, sub-base layer and rock fill for roads, railways, industrial construction sites. Applicable altitude 2000m, Applicable environment temperature -15°C ~ +55°C.



Main Performance And Characteristics

1 Overall

- The machine uses the latest series "5" industrial design with compact structure and aesthetic feature; The whole machine is designed with the best front and rear 1×1m visibility. Fuel oil filter, hydraulic oil filter, oil and water outlet are designed for good accessibility; Large opening hood and centralized pressure measuring points for good maintenance accessibility.

2 Power system

- It is equipped with diesel engine, water cooling, turbocharging, large power reserve, low oil consumption, low noise. The emission requirements of India's ARAI stage V.

3 Hydraulic drive system

- Closed-loop hydraulic vibration system consists of one pump and one motor. Two gears infinitely variable speeds ensure optimized working speeds under different working conditions.

4 Transmission system

- Special driving axle for heavy duty roller, tubeless tire with plum blossom pattern.

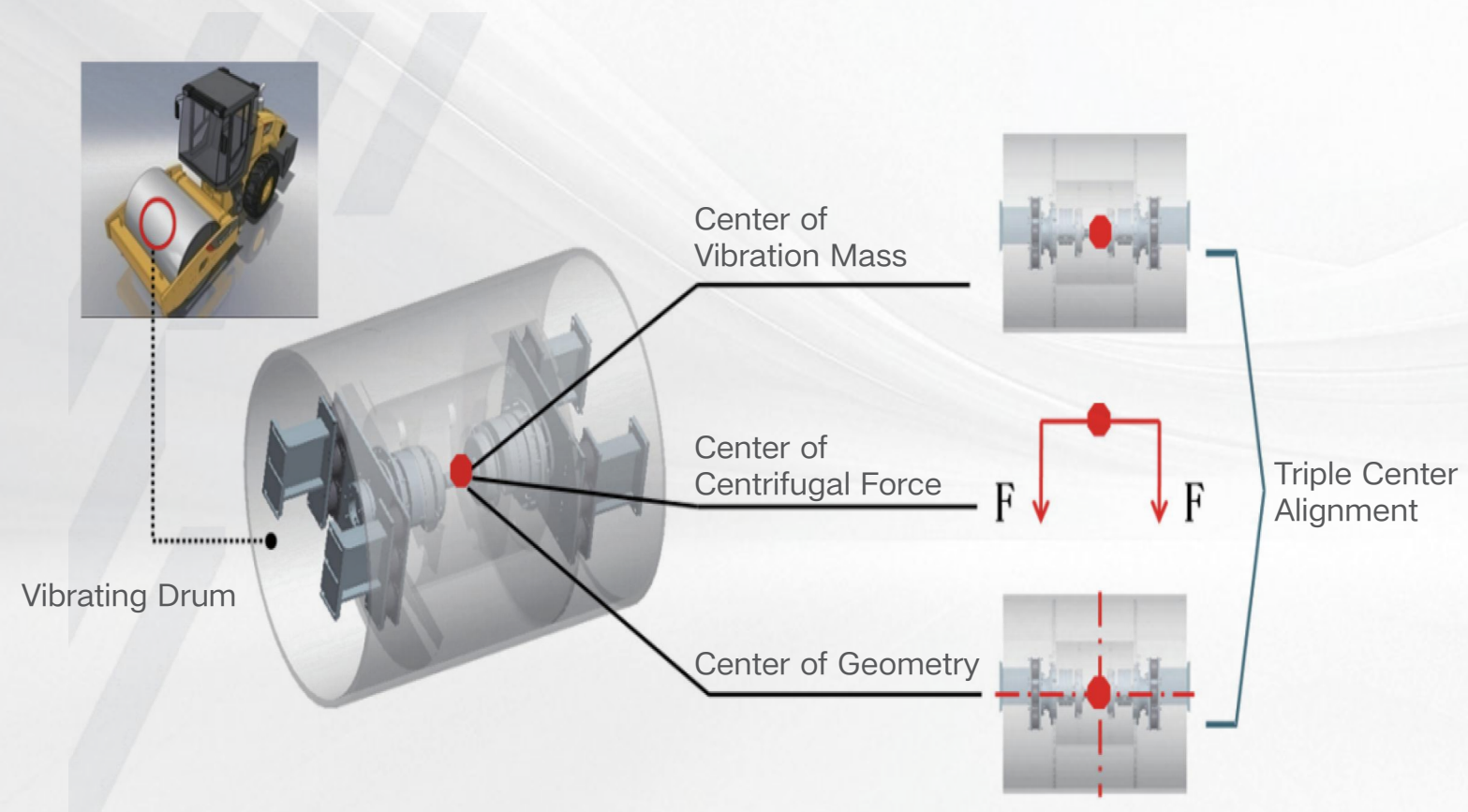
5 Hydraulic vibration system

- Closed-loop hydraulic vibration system consists of one pump and one motor, double-frequency, double-amplitude, reasonable static line load and excitation force guarantee the effective compaction of different materials and thicknesses.



Vibration drum

- No impact exciter in combination with double support structure make the drum simple and robust; dual frequency and dual vibration function, big static pressure and exciting force enables high working efficiency; special vibration bearing has long lifetime and high reliability.



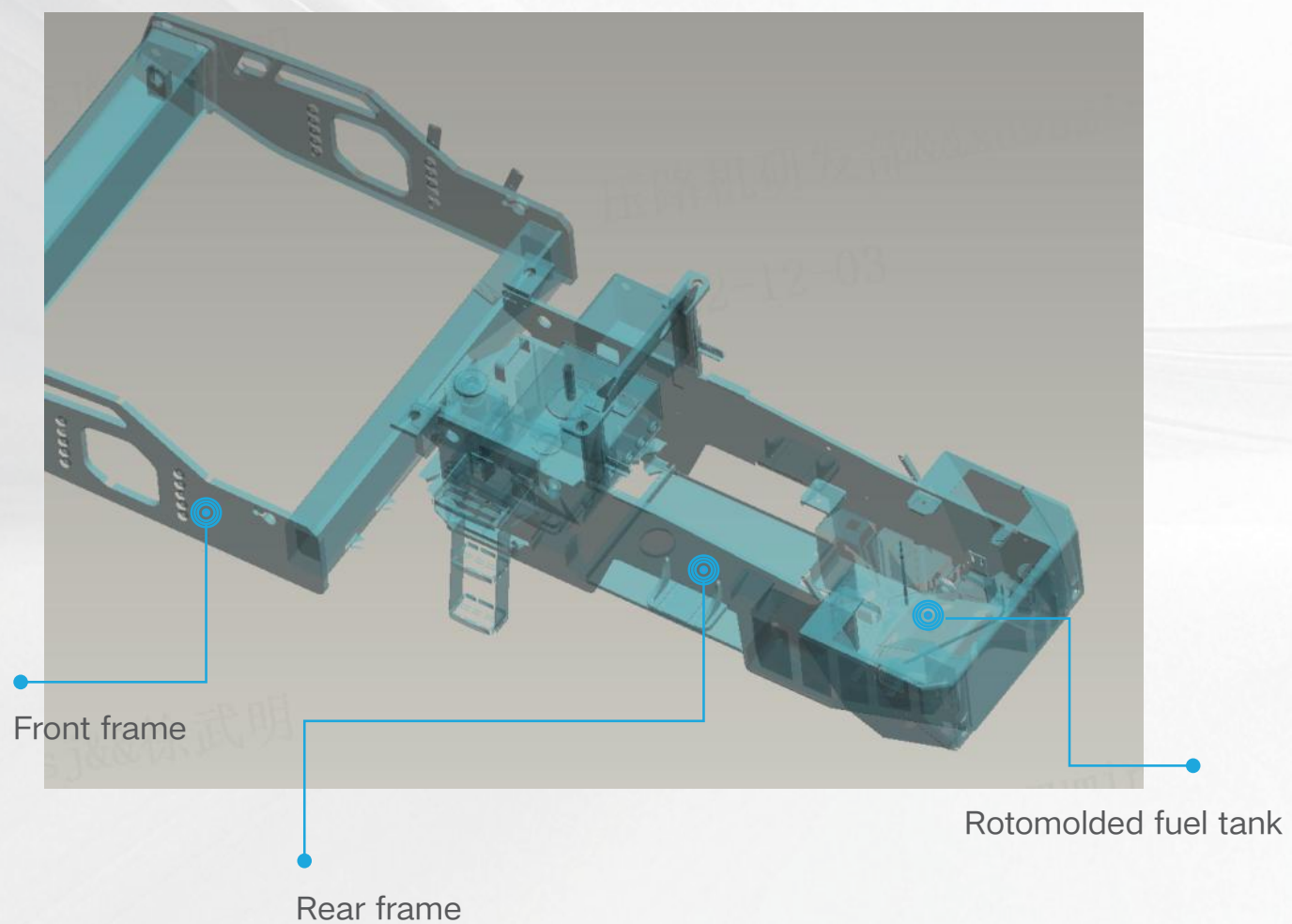
Control system

- Ergonomic layout: adjustable suspension seat fits different drivers; Sound and light warning indicators on the instrument panel provide instant information on service and maintenance, preventing the machine from working with faults and avoid disastrous damages for minimum on-site down-time. The steering column is optimized according to ergonomic and safety requirements.



Vibration drum

- Rotomolded material, no risk of rust and pollution.
- Quick plug connector, easy installation of fuel line.
- The fuel tank is built-in as a whole, safe and anti-theft.



Long lifetime service life

- 5 series cabs are equipped with LED lighting headlights at front and rear. Ensure the lighting requirement for night construction.
- Increase the rear taillight
Improve the lighting effect of reversing.



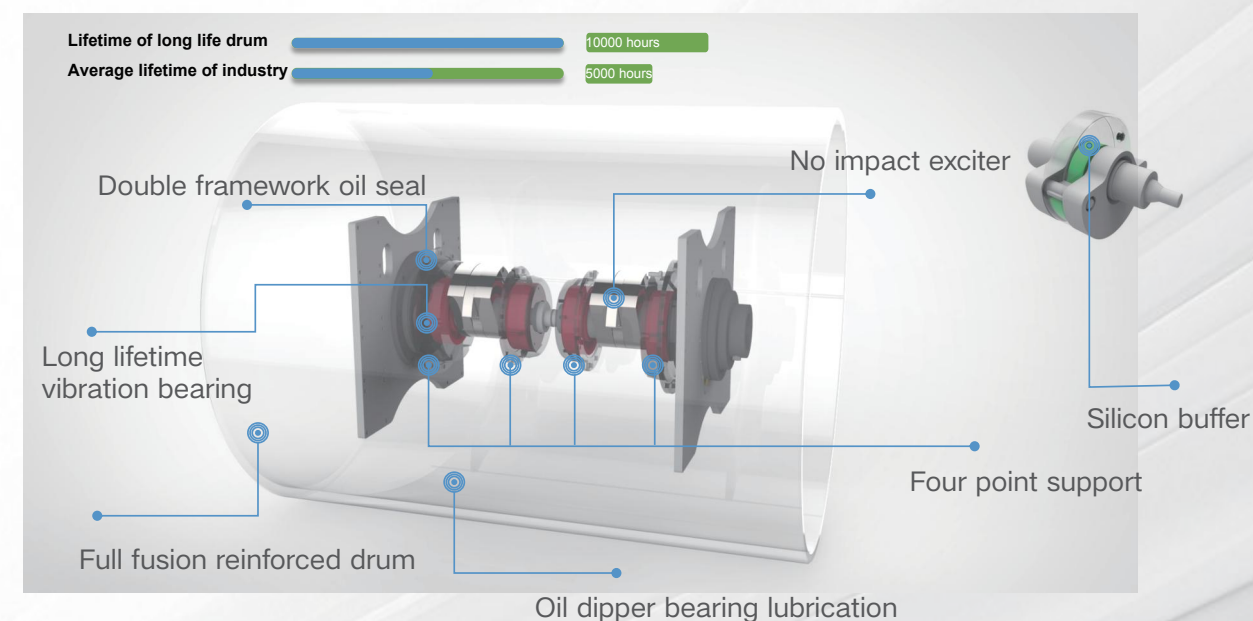
Highlights of the 4R1190TA1 BSV Engine

- **Strong Low-End Torque for Heavy-Duty Performance**
Powered by a 4.76 L inline four-cylinder, 4-valve, turbocharged and intercooled engine, delivering 110 hp @ 2,200 rpm and a peak torque of 450 N·m @ 1,320 rpm. The strong low-speed torque ensures excellent climbing capability and prevents power loss under heavy loads, making it ideal for rough rural roads and continuous compaction operations in India.
- **Maintenance-Free Valve Train for Reduced Downtime**
Equipped with roller cam followers and hydraulic lash adjusters (HLA), eliminating the need for manual valve clearance adjustment throughout the engine's service life. The four-valve cylinder head improves intake and exhaust airflow, minimizing power loss under high-temperature and high-altitude operating conditions.
- **Reinforced Engine Block and Crankshaft for Superior Durability**
The engine structure is optimized to withstand continuous vibration from roller operation and severe dust conditions at construction sites. A high-capacity cooling system enables reliable continuous operation at ambient temperatures up to 45°C without overheating.
- **Dual Regeneration Modes for Practical Jobsite Operation**
During continuous heavy-duty operation, the engine automatically performs passive DPF regeneration, burning off soot without interrupting work. For applications involving frequent idling or short-distance travel, parked active regeneration is supported with simple instrument panel prompts, making operation easy even for less experienced operators.
- **Large-Capacity DPF for Longer Cleaning Intervals**
The high-capacity Diesel Particulate Filter (DPF) is designed for India's dusty construction environment, providing greater soot storage capacity and significantly extending cleaning intervals compared with imported Cummins and Perkins engines.
- **Simplified Electronic Control for Higher Reliability**
The electronic control strategy has been simplified to suit operators in the Indian market, reducing regeneration-related faults and false engine derating alarms. With fully localized production in India, replacement parts—including DPF elements and urea (SCR) system components—are more affordable and readily available through a nationwide service network.

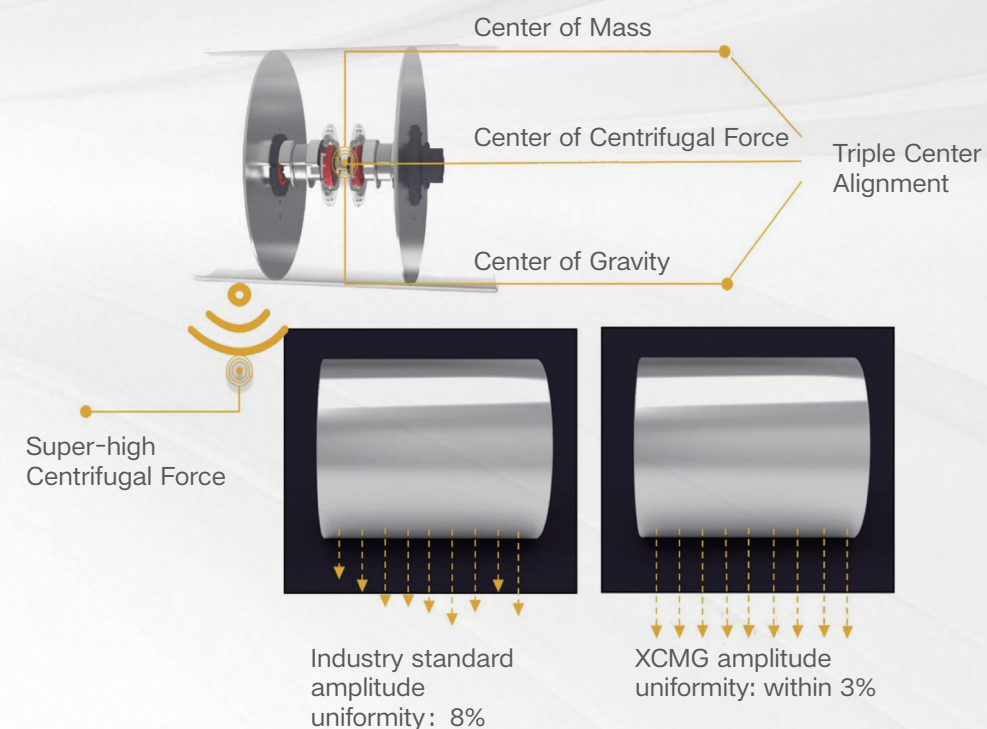
4R 1190 TA



Long lifetime service life



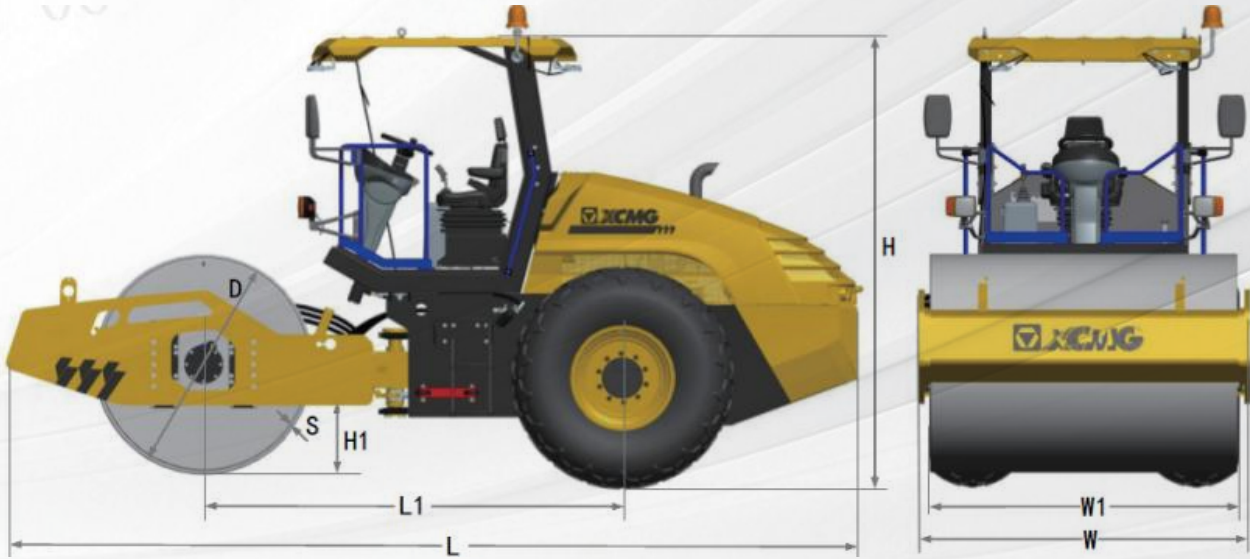
Excellent compaction capacity



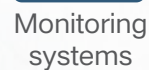
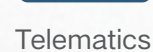
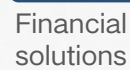
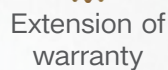
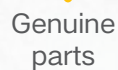
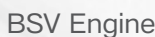
Main technical parameters

Item	Content	Unit	XS115H(Smooth drum)
Weights Parameters	Maximum operating weight	kg	11500
	Operating weight	kg	11200
	Front axle weight	kg	5800
	Rear axle weight	kg	5400
	Static linear load	N/cm	272
Propelling Performance	Operating speed	km/h	0-7; 0-12.5
	Theoretical gradeability	%	31%
	Minimum turning radius(intern)	mm	6050
	Minimum ground clearance	mm	420
	Wheel base	mm	3000
	Steering angle	°	35
	Oscillation angle	°	10
Compaction Performance	Braking distance	m	2.4
	Vibration frequency	Hz	30/35
	Nominal amplitude	mm	2.1/1.1
	Excitation force (High/low frequency)	kN	285/160
	Drum diameter	mm	1513
Hydraulic System	Drum width	mm	2130
	Charge pressure, drive system	MPa	2.5
	Peak pressure, drive system	MPa	40
	Peak pressure, vibration system	MPa	35
	Peak pressure, steering system	MPa	16
Engine	Model	-	4R1190TA1 BSV
	Type	-	Turbocharger water-cooled electrical control
	Rated power	kW	81.6
	Rated speed	r/min	2200
Tire	Spec.	-	23.1-26-12G23TL
	Ply rating	-	12
	Air pressure	kPa	200
Miscellaneous	Drive method	-	Hydrostatic closed-loop
	Vibration method	-	Hydrostatic closed-loop
	Service brake	-	Hydraulic
	Park brake	-	Mechanic/hydraulic
	Secondary brake	-	Mechanic/hydraulic
	Steering system	-	Articulated
	Steering control	-	Hydraulic

Shape and dimension



Dimensions (mm)	L	L1	W	W1	H	H1	S	D
XS115H	6010	3000	2300	2130	3200	420	25	1513



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 services are available in order to reduce your total cost of ownership and increase your revenue.

XCMG Global Spareparts System

