

XS205



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SINGLE DRUM VIBRATORY ROLLER

XS205 vibratory roller is a kind of heavy type self-propelled vibratory roller, mainly applicable for compaction work of base layer, sub-base layer of different materials and filling projects. It is an ideal choice for compacting high grade highway, airports, ports, dams and industrial construction sites. Applicable altitude $\leq 4000\text{m}$, Applicable environment temperature $-15^{\circ}\text{C} \sim +45^{\circ}\text{C}$.

Performance and characteristics

- Cummins water-cooled engine, compliance with China Tier II-emission regulation, large power reserves, low fuel consumption and low noise.
- The closed-type hydraulic drive system composed of variable displacement pump and variable dual-motor realizes full-wheel drive, and guarantees excellent drive performance and gradeability. The 4-gear infinite variable speed guaran-

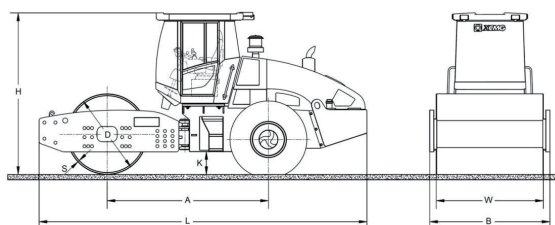
tees most suitable working speed for different working conditions. Gear I is used for compaction work with highest gradeability; gear II and III is for limiting slipping of front and rear drum under slipping conditions, gear IV is used for short distance transit with increased drive speed.

- Domestic heavy driving axle delivers big bearing capacity, high safety and reliability.

Main dimensions

Unit: mm

Model	A	B	D	H	K	L	S	W
XS205 Standard	3430	2350	1600	3200	450	6990	36	2130
XS205 Optional PD	3430	2350	1812	3200	450	6990	-	2130



Main specifications

Item	Description	Unit	XS205 Standard	XS205 Optional PD
Weights	Operating weight	kg	20000	21500
	Front axle weight	kg	13500	15000
	Rear axle weight	kg	6500	6500
	Static linear load	N/cm	634	-
Maneuverability	Operating speed	km/h	0~4.0; 0~5.9; 0~5.9; 0~10.6	0~4.3; 0~6.1; 0~6.3; 0~11.3
	Theoretical gradeability	%	50	50
	Minimum turning radius (inside/outside)	mm	4770/6900	4770/6900
	Minimum ground clearance	mm	450	450
	Wheelbase	mm	3430	3430
	Steering angle	°	±33	±33
	Oscillation angle	°	±10	±10
	Braking distance	m	<3.9	<4.1
Compaction Performance	Vibration frequency	Hz	28/33	28/33
	Nominal amplitude	mm	1.90/0.95	1.55/0.78
	Exciting force (High/low frequency)	kN	385/270	385/270
	Drum diameter	mm	1600	1812
	Drum width	mm	2130	2130
Hydraulic System	Charge pressure, drive system	MPa	2.4	2.4
	Relief pressure of drive system	MPa	38	38
	Relief pressure of vibration system	MPa	32	32
	Relief pressure of steering system	MPa	14	14
Engine	Model		Cummins 6BTAA5.9-C190	Cummins 6BTAA5.9-C190
	Type		Water-cooled in-line 6-cylinder diesel engine	Water-cooled in-line 6-cylinder diesel engine
	Rated power	kW	142	142
	Rated speed	r/min	2000	2000
Tire	Spec.		23.1-26-12PR	23.1-26-12PR
	Ply rating		12	12
	Air pressure	kPa	150~170	150~170
Miscellaneous	Drive method		Hydrostatic closed-loop	Hydrostatic closed-loop
	Vibration method		Hydrostatic closed-loop	Hydrostatic closed-loop
	Service brake		Hydraulic	Hydraulic
	Park brake		Mechanic/hydraulic	Mechanic/hydraulic
	Secondary brake		Mechanic/hydraulic	Mechanic/hydraulic
	Steering system		Articulated	Articulated
	Steering control		Hydraulic	Hydraulic