



LGR220 Single Drum Vibratory Roller(Mechanical Transmission)

LGR220 vibratory roller adopts mechanical travel drive, double amplitude, hydraulic vibration and steering .The standard configurations employ the reliable D6114ZG engine with easy accessibility for repair and maintenance. Two sets of brake devices, a hand brake and a foot pedal brake, assure the machine's safety and dependability. World advanced technology is adopted for the hydraulic vibration technology, high in reliability, simple and convenient in maintenance, and low in cost.

Engine	
Model	D6114ZG
Type	Vertical, water cooled, direct injection
Rated power	132KW
Rated speed	2000rpm
Rated fuel consumption	215g/kw-h
Main Technical Specification	
Operating weight	20000kg
Type	Hydraulic vibration
Frequency	30Hz
Amplitude	2.0/1.0mm
Static linear load	460N/cm
Dynamic linear load	631N/cm
Vertical oscillation	8°
Drum shell thickness	46mm
Centrifugal force(high ampl.)	360KN
Centrifugal force(low ampl.)	240KN
Transmission System	
Type	Mechanical drive(gear box)
Grade ability	35%

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Gear shifts(Forward/Reverse)	F3/R3
Traveling speed(km/h)	
Forward/Reverse I	2/2
Forward/Reverse II	4/4
Forward/Reverse III	10.5/10.5
Axle	
Drive type	Rear wheel drive
Front axle load	13200kg
Rear axle load	8800kg
Steering System	
Type	Articulated frame, hydraulic steering
Steering cylinder	Two cylinders
Steering pump	Gear pump
Working pressure	13MPa
Steering angle	±35°
Min. steering radius	7500mm (outer side),5400mm (inner side)
Braking System	
Service brake	Disc brake, actuate rear wheels
Parking brake	Hand operated drum brake
Dimensions	
Overall length	5820mm
Overall width	2280mm
Overall height	3050mm
Drum width	2130mm
Wheel base	3160mm
Drum Dia.	1570mm
Tyre size	23.1-26
Ground clearance	432mm
Service Capacities	
Hydraulic tank	150L
Gear box	25L
Drive axle	25L
Brake booster	10L
Fuel tank	180L
Engine crank case	19L

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