



LGR216 Single Drum Vibratory Roller(Mechanical Transmission)

LGR216 single drum vibratory roller is equipped with YC6108ZG engine, PERMCO/HERCULES vibrating pump and motor, mechanical drive transmission, which is suitable for non-cohesive materials, such as sandy soil, gravel, crushed stones, rock fillings and slightly cohesive soils, designed for large foundation constructions such as high-class highways, mines, dams, airports, harbors, railways and industrial areas. Cummins engine and pad foot shell as optional.

Engine	
Model	YC6108ZG
Type	Vertical, water cooled, direct injection
Rated power	110KW
Rated speed	2000rpm
Rated fuel consumption	210g/kw-h
Main Technical Specification	
Operating weight	16000kg
Type	Hydraulic vibration
Frequency	30Hz
Amplitude	1.8/0.9mm
Static linear load	378N/cm
Dynamic linear load	530N/cm
Vertical oscillation	8°
Drum shell thickness	32mm
Centrifugal force(high ampl.)	320KN
Centrifugal force(low ampl.)	180KN
Transmission System	
Type	Mechanical drive(gear box)

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Grade ability	35%
Gear shifts(Forward/Reverse)	F3/R3
Traveling speed(km/h)	
Forward/Reverse I	2/2
Forward/Reverse II	4/4
Forward/ReverseIII	10.5/10.5
Axle	
Drive type	Rear wheel drive
Front axle load	9600kg
Rear axle load	6400kg
Steering System	
Type	Articulated frame, hydraulic steering
Steering cylinder	Two cylinders
Steering pump	Gear pump
Working pressure	13MPa
Steering angle	±36°
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	2278mm
Overall height	3000mm
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	18L

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