



LGR210 single drum vibratory roller(mechanical transmission)

LGR210 single drum vibratory roller is equipped with YC6108G 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.

Engine	
Model	YC6108G
Type	Vertical, water cooled, direct injection
Rated power	85KW
Rated speed	2000rpm
Rated fuel consumption	215g/kw-h
Main Technical Specification	
Operating weight	10000kg
Type	Hydraulic vibration
Frequency	30Hz
Amplitude	0.9/1.8 mm
Static linear load	230N/cm
Vertical oscillation	10°
Drum shell thickness	24mm
Centrifugal force(high ampl.)	240KN
Centrifugal force(low ampl.)	130KN
Transmission System	
Type	Mechanical drive(gear box)
Grade ability	35%
Gear shifts(Forward/Reverse)	F3/R3

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Traveling speed(km/h)	
Forward/Reverse I	1.8/1.8
Forward/Reverse II	3.7/3.7
Forward/Reverse III	9.7/9.7
Axle	
Drive type	Rear wheel drive
Front axle load	6000kg
Rear axle load	4000kg
Steering System	
Type	Articulated frame, hydraulic steering
Steering cylinder	Two cylinders
Steering pump	Gear pump
Working pressure	12MPa
Steering angle	±36°
Min. steering radius	6500mm (outer side),4870mm (inner side)
Braking System	
Service brake	Disc brake, actuate rear wheels
Parking brake	Hand operated drum brake
Dimensions	
Overall length	5640mm
Overall width	2258mm
Overall height	2970mm
Drum width	2100mm
Wheel base	3080mm
Drum Dia.	1400mm
Tyre size	17.5-25
Ground clearance	360mm
Service Capacities	
Hydraulic tank	150L
Gear box	25L
Drive axle	25L
Brake booster	10L
Fuel tank	180L
Engine crank case	16L

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