



### LGR214 Single Drum Vibratory Roller(Mechanical Transmission)

LGR214 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. Cummins engine and pad foot shell as optional.

Mechanical drive, dual amplitude, hydraulic vibration

Hydraulic articulated steering

Reliable YC6108 diesel engine

Dual brake devices to assure safety

Spacious and comfortable cabin

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	14000kg
Type	Hydraulic vibration
Frequency	30Hz
Amplitude	1.7/0.8mm
Static linear load	325N/cm
Dynamic linear load	520N/cm
Vertical oscillation	8°
Drum shell thickness	24mm
Centrifugal force(high ampl.)	290KN
Centrifugal force(low ampl.)	160KN
Transmission System	
Type	Mechanical drive(gear box)

Shanghai Longji Construction Machinery Co., Ltd.

Add: Room 1311, Building C, Lane 58, No.1 East Xinjian Road, Minhang District, Shanghai City, China

Post Code: 201100

E-mail: [info@shlongji.com](mailto:info@shlongji.com)

Tel: +86-21-541-71571

Fax: +86-21-541-71572

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	11/11
Axle	
Drive type	Rear wheel drive
Front axle load	8400kg
Rear axle load	5600kg
Steering System	
Type	Articulated frame, hydraulic steering
Steering cylinder	Two cylinders
Steering pump	Gear pump
Working pressure	12MPa
Steering angle	±36°
Min. steering radius	7000mm ( outer side), 4870mm (inner side)
Braking System	
Service brake	Disc brake, actuate rear wheels
Parking brake	Hand operated drum brake
Dimensions	
Overall length	5800mm
Overall width	2278mm
Overall height	2979mm
Drum width	2130mm
Wheel base	3080mm
Drum Dia.	1500mm
Tyre size	23.1-26
Ground clearance	410mm
Service Capacities	
Hydraulic tank	140L
Gear box	25L
Drive axle	25L
Brake booster	10L
Fuel tank	180L
Engine crank case	16L

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