

Technical Performance Introduction of YZ18R Signal-Drum Vibratory Roller



YZ18R vibratory roller, as heavy-duty self-propelled roller, is used for high-quality earth compaction in large project. It's suitable for all kinds of foundation and compaction and widely used in high-level road, railway, airport, seaport, dam, surface mine etc.

YZ18R vibratory road roller is featured with full hydraulic, all-wheel drive, two-stage speed, dual-frequency, dual-amplitude, hinged turning, and all-closed cab. The main components and system are of top quality, good compaction, reliability, convenient handling, safety and comfortableness.

Main technical features:

- It is based on decades of scientific research, design experience and a number of national patents developed by Changsha Construction Machinery Research Institute.
- With large centrifugal force and amplitude, optimal vibrating parameters, good

Main Technical Parameters of YZ18R Single-drum Vibratory Roller

Item	Technical parameter	Unit
Working temperature	-10 ~ 45	℃
Working mass	18200	kg
Allocated mass, vibrating drum	12000	kg
Linear load, vibrating drum	558	N/cm
Diameter X width, vibrating drum	Φ1600 × 2150	mm
Vibrating frequency	29 / 35	Hz
Centrifugal force	370 / 270	kN
Nominal amplitude	2 / 0.9	mm
Traveling speed	0 ~ 5 / 0 ~ 10	km/h
Engine		
Model	BF6M1013EC	Dongfeng Cummins
Type	水冷	
Rated power	148	kW
Rated speed	2300	r/min
Diesel consumption	216	g/kW.h
Theoretical gradability	45	%
Theoretical turning radius (outside)	6400	mm
Min. ground clearance	407	mm
Steering angle	± 35	°
Tilting between frame parts	± 10	°
L x W x H	6230*2400*3220	mm
Diesel tank capacity	465	L
Hydraulic oil tank capacity	117	L

YZ18RAII Hydraulic Vibratory Roller Assembly Configuration

Name	Model	Number	Brand
Engine	BF6M1013EC	1	Deutz
Traveling system		1	Sauer
Vibrating system		1	Sauer
Steering system		1	Jining Eton
Rim		2	Domestic famous brand
Wheel	20.5-25	2	Domestic famous brand
Bearing, vibratory	NJ324	4	FAG
Skeleton oil seals	BAUSLX2 240 × 270 × 15	1	Freudenberg-Simrit
A/C	ZY27	1	Domestic famous brand