

# Technical Performance Introduction of YZ20-III single-drum Vibratory Roller



YZ20-III 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.

YZ20-III vibratory roller is featured with full hydraulic, variable speed, single-driven, dual-frequency, dual-amplitude, hinged steering, and all-closed cab. The main components and system are of top quality, good compaction, reliability, convenient handling, safety and comfortableness.

## **Main technical features:**

Aiming to overcome some outdated performance of mechanical vibratory roller, Zoomlion developed the economical and practical roller of all-hydraulic single-driven single-drum based on national conditions. The highlight features are: under the condition of slightly increasing the producing cost, increasing the performance of traveling and compacting and safety, reducing

**Main Technical Parameters of YZ20-III Single-drum Vibratory Roller**

Item	Technical parameter	Unit
Working temperature	-10 ~ 40	℃
Working mass	-10 ~ 40	kg
Allocated mass, vibrating drum	9500	kg
Linear load, vibrating drum	433	N/cm
Diameter X width, vibrating drum	Φ1560×2150	mm
Vibrating frequency	29/35	Hz
Centrifugal force	395/290	kN
Nominal amplitude	1.9 / 1.0	mm
Traveling speed	0 ~ 7.2	km/h
Engine		
Model	6BTA5.9	Dongfeng Cummins
Type	Water cooling	
Rated power	132	kW
Rated speed	2200	r/min
Diesel consumption	227	g/kW.h
Theoretical gradability	32	%
Theoretical turning radius (outside)	6250	mm
Min. ground clearance	407	mm
Steering angle	±32	°
Tilting between frame parts	±10	°
L x W x H	5920*2400*3200	mm
Diesel tank capacity	400	L
Hydraulic oil tank capacity	130	L

**YZ20-III All Hydraulic Vibratory Roller Assembly Configuration**

Name	Model	Number	Manufacturer	Origin
Engine	6BTA5.9	1	Dongfeng Cummins	Joint-venture of sino-America
Traveling system		1	Sauer	Germany or USA
Vibrating system		1	Sauer	Germany or USA
Steering system		1	Jining Eton	Joint-venture of Sino-America
Drive axle	PS75.91B	1	Domestic famous brand	China
Rim	Z251720	2	Domestic famous brand	China
Wheel	20.5-25	2	Domestic famous brand	China
Bearing, vibratory	NJ2320E	2	FAG	Germany
Bearing, vibratory	22320ED	2	FAG	Germany
Skeleton oil seals	BAUSLX2 200×230×15	2	Freudenberg Simrit	Germany
A/C(option)	ZY18D	1	Domestic famous brand	China