

Technical Performance Introduction of YZC13H Full Hydraulic dual-Drum Vibratory Roller



YZC13H vibratory roller is of double-drum and tandem type, suitable for asphalt concrete, gravel mixed material and harsh concrete. It is the ideal equipment for high-level road, civil road, airport, parking lot, constructional site.

YZC13H vibratory roller is featured with full-hydraulic drive and full electro-hydraulic control, double-drum drive, dual-frequency, dual-amplitude, front-drum single-vibratory, adjustable sprinkler, and crab body. The main components and system are of top quality, good compaction, reliability, convenient handling.

Main technical features:

- Based on decades of scientific research, design experience by Changsha Construction Machinery Research Institute.
- Two-stage Germany Deutz engine is of environmental protection.
- Optimal vibrating parameter matching, good effect of compaction, high

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Vibratory Roller**

Item	Technical parameter	Unit
Working temperature	-15 ~ 45	℃
Relative humidity	100	%
Altitude	Not less than 1500	m
Working mass	13000	kg
Module mass on front drum	6500	kg
Module mass on rear drum	6500	kg
Linear load on front drum	303	N/cm
Linear load on rear drum	303	N/cm
Diameter X width, vibrating drum	Φ1250×2100	mm
Vibrating frequency	39/46	Hz
Centrifugal force	125/90	kN
Nominal amplitude	0.75/0.35	mm
Traveling speed	0 ~ 6/0 ~ 12	km/h
Engine Model	BF4M1013EC	
Type	Two-stage emission, water-cooling	
Rated power	102	kW
Rated speed	2300	r/min
Fuel consumption	202	g/kW.h
Theoretical gradability	38	%
Max. crab distance	170	mm
Theoretical turning radius (inside)	4890	mm
Min. ground clearance	310	mm
Steering angle	±35	°
Tilting between frame parts	±10	°
Overall L x W x H	5260*2252*3060	mm

Diesel tank capacity	200	L
Hydraulic oil tank capacity	120	L

**YZC13H full hydraulic double-drum vibratory roller assembly configuration
table**

Name	Model	Number	Make or brand
Engine	BF4M1013EC	1	Deutz
Traveling system		1	Saue
Vibrating system		1	Rexroth or Saue
Steering system		1	Jining Eton
Reducer	GW18	2	fairfield
Vibratory bearing	NJ320	2	FAG
Oil sealing	BAUSLX2 240×270×15	1	Freudenberg-Simrit
Motor, sprinkler	800-953-238	2	Shurflo
Solenoid directional check valve	SV10-28	2	Hydraforce