



ZOOMLION

YZC Series

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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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

construction efficiency.

- Adopts Zoomlion exclusive low-speed seals for the drum, with high reliability.
- Full-hydraulic, Double-drum drive and vibrating, double-frequency and double-amplitude.
- Adopts Zoomlion exclusive front-drum single-vibrating to facilitate construction.
- Adopts world advanced Lord vibratory system;
- Adopts two sets of pressure sprinklers of time-division control. The water pump could work for a long time.
- Adopts two sets of pressure sprinkler, with adjustable sprinkler and automatic sprinkling. Its performance could work at any time.
- Adopts Saue hydraulic pump and motor, FAG vibratory bearing, with high reliability.
- The cab is equipped with wide-view large-curved glass at the front and back, A/C and rotatable control desk.

**Technical Performance Introduction of YZC13H Full Hydraulic dual-Drum
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

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

Name	Model	Number	Maker or Brand
Pump, traveling	90R75	1	Saue
Traveling motor	51C60	2	Saue
Pump, vibrating	90R55	1	Saue
Motor, vibrating	MMF035	2	Saue
Reducer	CW18	2	Fairfield
Pump, steering		1	Domestic famous brand
Solenoid directional check valve	SV10-28	2	
Steering cylinder	HSGK80/40E	1	Domestic famous brand
Hydraulic steering gear	BZZ-500	1	Jining Eton
Valve block, steering gear	FKS16/20	1	Jining Eton
Joint, testing pressure	SMK20-M12×1.5	4	Stauff

**YZC13H full hydraulic double-drum vibratory roller electrical system
configuration table**

Name	Model	Number	Make or brand
Battery	GB	2	Sears
Switch	SA	9	TE
Switch	SA	2	HELLA
Indicator lamp	H	8	TE
Relay	KA	6	HELLA
Diesel level	P	1	Curtis
Voltage gauge	P	1	Curtis
Horn	HA1	1	HELLA
Fuse	FU	14	HELLA

YZC13H full-hydraulic vibratory main wear parts list

Index	Code	Name or description	Remarks
1	GB3452.1 – 82	O-ring 10×1.8	
2	GB3452.1 – 82	O-ring 13.2×1.8	
3	GB3452.1 – 82	O-ring 20×1.8	
4	GB3452.1 – 82	O-ring 25×1.8	
5	GB3452.1 – 82	O-ring 18×2.65	
6	GB3452.1 – 82	O-ring 21.2×2.65	
7	GB3452.1 – 82	O-ring 53×2.65	
8	GB3452.1 – 82	O-ring 30×3.55	
9	GB3452.1 – 82	O-ring 50×3.55	
10		O-ring 20.3×2.4	
11		O-ring 24.99×3.53	
12		O-ring 32.92×3.53	
13	JB982-77	Combination gasket 12	
14	JB982-77	Combination gasket 14	
15	JB982-77	Combination gasket 18	
16	JB982-77	Combination gasket 22	
17	JB982-77	Combination gasket 27	
18	JB982-77	Combination gasket 33	
19	JB982-77	Combination gasket 42	
20	SM-1131-45	Shock absorber	
21	TFX-250x80	Filter element, hydraulic oil absorption	
22	9700810	Filter element, travelling pump	
23	9700810	Filter element, vibratory pump	
24	C20325/2	Outer element of air cleaner	
25	CF1000	Inner element of air cleaner	

26	1117050-D142	Fine filter element, diesel	
27	1012010-D142	Oil filter element	
28	PL420X	Coarse filter element, diesel	

YZC13H full-hydraulic vibratory roller packing list

Index	Name	Size	Number	Unit	Remark
I Information					
1	Certificate of Product Approval		1	Piece	
2	《 YZC13H Operation Instruction》		1		
3	《YZC13H Parts Atlas》		1		
4	Engine Operational Instruction		1		Chinese and English
5	Key, cab		2	Piece	
6	Key, starting engine		1	Piece	
7	Key, tool box		2	Piece	
8	Bag, information		1	Piece	Used for enclose the above books and information
II Tool					
1	Hexagon socket screw keys	3-19	1	set	9 pieces
2	Hexagon socket screw keys	2	1	Piece	
3	Fixed wrench	7-32	1	set	9 pieces
4	Fixed wrench	41-46	1	Piece	
5	Wrench, used for filter element	φ60-φ140	1	Piece	
6	Cross screw driver	150×7	1	Piece	
7	Cross screw driver	200×8	1	Piece	
8	Screw driver	150×7	1	Piece	
9	Screw driver	300×9	1	Piece	
10	Adjustable wrench	12”	1	Piece	
11	Combination pliers	8”	1	Piece	
12	Hammer	1.5 Pound	1	Piece	
13	Grease gun	400 g	1	Piece	
III Spare part					
1	Filter element, hydraulic oil absorption	ZX-250×80	2		

Index	Name	Size	Number	Unit	Remark
2	Fine filter element, diesel	0118 1245	2		
3	Filter element, oil	0117 4421	1		
4	Fuse	8JS 711 690-002 (30A)	1		
5	Fuse	8JS 711 688-002 (20A)	1		
6	Fuse	8JS 711 686-002 (10A)	2		
7	Fuse	8JS 711 684-002 (5A)	3		
IV. seals					
1	Seals, 1set				

YZC13H vibratory roller seals list

Index	Code	Name or description	Number	Remarks
1	GB3452.1 - 82	O-ring 10×1.8	6	
2	GB3452.1 - 82	O-ring 13.2×1.8	12	
3	GB3452.1 - 82	O-ring 20×1.8	1	
4	GB3452.1 - 82	O-ring 25×1.8	1	
5	GB3452.1 - 82	O-ring 18×2.65	4	
6	GB3452.1 - 82	O-ring 21.2×2.65	8	
7	GB3452.1 - 82	O-ring 53×2.65	2	
8	GB3452.1 - 82	O-ring 30×3.55	8	
9	GB3452.1 - 82	O-ring 50×3.55	2	
10		O-ring 20.3×2.4	12	
11		O-ring 24.99×3.53	6	
12		O-ring 32.92×3.53	6	
13	JB982-77	Combination gasket 12	2	
14	JB982-77	Combination gasket 14	3	
15	JB982-77	Combination gasket 18	9	
16	JB982-77	Combination gasket 22	2	
17	JB982-77	Combination gasket 27	4	
18	JB982-77	Combination gasket 33	3	
19	JB982-77	Combination gasket 42	4	

Roller Technical Standards

1. PRC standard Vibratory Roller

Standard No. GB/T8511-2005

2. PRC standard Design Standard for the Isolating System of Vibratory Roller

Standard No. JG/T5076.1-1996

3. PRC standard Test Standard for the Isolating System of Vibratory Roller

Standard No. JG/T5076.2-1996

4. PRC standard General Requirement for Rollers

Standard No. GB/T13328-2005

5. PRC standard Earthmover Term and Commercial Specification for Roller and
Landfill Compactor

Standard No. GB/T7920.5-2003

6. Zoomlion Heavy Industry Science & Technology Development Co., Ltd
Self-propelled Vibratory Roller

Standard No. Q/QKAM 103007-2002



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