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Volvo Construction Equipment

CR24, CR30

Volvo Combination Rollers



A POWERFUL COMBINATION

The Volvo CR24 and CR30 effectively combine two modern compaction methods to achieve maximum density and smoothness, while compacting Hot Mix Asphalt (HMA) and other semi-cohesive materials. These combination rollers utilize a high-frequency vibratory system on the front drum for density requirements and four pneumatic tires in the rear to ensure the impermeability and smoothness of the material. The four pneumatic tires manipulate the compacted material to improve surface texture and reduce water intrusion. The use of both a vibratory drum and pneumatic tires provides a dense, smooth, quality mat.

Productivity

- 299 l water system is equipped with automatic flow control to increase productivity by extending refilling intervals
- A separate 20,4 l emulsion tank and pump provide the CR24 and CR30 with additional tire spraydown
- Full-day fuel operation
- Automatic vibration control and a frequency of 66,7 Hz for the fastest rolling speed in the industry to maximize production output on a daily basis

Selected Options

- Biodegradable oil
- Cocoa mats
- Falling Object Protective Structure (FOPS)
- Flashing strobe
- Foldable ROPS
- Gauge package (includes engine coolant temperature, engine oil pressure and voltmeter)
- Hazard and turn signals
- Inside scraper
- Low fuel alarm
- Radial tires
- Remote hydraulic test ports
- Sound kit
- Special paint
- Steering knob
- Tool kit
- 12-ply tires
- Urethane wipers
- Vandal cover
- Water strainer
- Work lights



CE SPECIFICATIONS

Model		CR24	CR30
Machine Weights (w/ ROPS)			
Operating Weight	kg	2 604	2 978
Static Weight @ Drum	kg	1 339	1 481
Static Weight @ Tires	kg	1 265	1 497
Shipping Weight	kg	2 372	2 746
Machine Dimensions			
Overall Length w/ ROPS	mm	2 564	2 564
Overall Length w/o ROPS	mm	2 564	2 564
Overall Width	mm	1 312	1 452
Overall Height – Top of Steering Wheel	mm	1 826	1 826
Overall Height – Top of ROPS	mm	2 527	2 527
Drum / Tire Base	mm	1 725	1 725
Drum			
Width	mm	1 200	1 320
Diameter	mm	732	736
Shell Thickness (nominal)	mm	12	12
Finish		Machined / chamfered edge	
Tires			
Number		4	4
Size	mm	190,5 x 381 – 6 PR	190,5 x 381 – 6 PR
Tire Load	kN	313	362,9
Tire Wipers		Steel scraper	
Vibration			
Frequency	Hz	66,7	66,7
Centrifugal Force	kN	32	33
Nominal Amplitude	mm	0,41	0,34
Lubrication		Oil splash	
Type System		Open loop	
Vibrating Drums		Front only	
Vibration Isolation		6 shear block isolators per drum	
Propulsion			
Type System		Closed loop, hydrostatic, parallel circuit	
Drum Drive		Pump: axial-piston, Motor: radial-piston, low-speed, high-torque	
Speed — Forward & Reverse	km/h	0 – 11,5	0 – 11,5
Gradeability (theoretical)		47,4%	39,6%
Engine			
Make / Model		Kubota V2203M Tier 4 Interim	Kubota V2203M Tier 4 Interim
Output at installed speed	kW HP	31.4 at 2 450 rpm 42.1 at 2 450 rpm	31,4
Type		4-cylinder diesel	4-cylinder diesel
Brakes			
Service		Dynamic hydrostatic through propulsion system	
Parking / Secondary		Spring-applied, hydraulically released	
Steering			
Design		Centerpoint articulation	
Type System		Double-acting, hydraulic, single cylinder	
Articulation Angle		+ / - 30°	+ / - 30°
Outside Turning Radius (measured to drum edge)	mm	3 848	3 907
Water System			
Type / Pump / Flow	l/min	Pressurized/electric, diaphragm 0 – 4,5	
Qty / Nozzle Type (per drum)		4 hand-serviceable nozzles	
Tank Capacity	l	299	299
Filters		100 mesh screen at nozzles, 80 mesh in-line	
Drum Wiper		Spring-loaded, self-adjusting, rubber	
Electrical			
Battery		12 volts, negative ground, 800 CCA	
Alternator		40A	40A
Miscellaneous			
Emulsion Capacity	l	20,4	20,4
Fuel Capacity	l	68,1	68,1
Hydraulic Capacity	l	84,8	84,8
Oscillation		+ / - 10°	+ / - 10°
Curb Clearance	mm Right Left	481 612	606 614
Side Clearance	mm	56	56

Product improvement is a continuing goal at Volvo. Designs and specifications are subject to change without notice or obligation.

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