Volvo Construction Equipment

CR30

Volvo Combination Rollers

A powerful combination

The Volvo CR30 effectively combines two modern compaction methods to achieve maximum density and smoothness, while compacting Hot Mix Asphalt (HMA) and other semi-cohesive materials. This combination roller utilizes 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 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

Specifications

Model		CR30
Machine Weights (w/ ROPS)		
Operating Weight	kg	2 978
Static Weight @ Drum	kg	1 481
Static Weight @ Tires	kg	1 497
Shipping Weight	kg	2 746
Machine Dimensions		
Overall Length w/ ROPS	mm	2 564
Overall Length w/o ROPS	mm	2 564
Overall Width	mm	1 452
Overall Height - Top of Steering Wheel	mm	1 826
Overall Height - Top of ROPS	mm	2 527
Drum / Tire Base	mm	1 725
Drum		
Width	mm	1 320
Diameter	mm	736
Shell Thickness (nominal)	mm	12
Finish		Machined / chamfered edge
Tires		
Number		4
Size	mm	190.5 x 381 – 6 PR
Tire Load	kN	362.9
Tire Wipers		Steel scraper
Vibration		
Frequency	Hz	66.7
Centrifugal Force	kN	33
Nominal Amplitude	mm	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
Gradeability (theoretical)		39.6%
Engine		
Make / Model		Kubota V2203M Tier 4 Interim
Rated Power @ Installed Speed	kW	31.4
Type		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°
Outside Turning Radius (measured to drum edge)	mm	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
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
Miscellaneous		
Emulsion Capacity	l	20.4
Fuel Capacity	l	68.1
Hydraulic Capacity	l	84.8
Oscillation		+ / - 10°
Curb Clearance (right)	mm	606
Curb Clearance (left)	mm	614
Side Clearance	mm	56
Guaranteed Sound Level		
Operator's Ear, acc. to ISO 11203:2009	LpA dB(A)	81

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

Ref. No 20055602_B / English-21 / 2018.08 / COA / Volvo, Global Marketing

VOLVO

Volvo Construction Equipment

www.volvoce.com