

VOLVO COMBINATION ROLLERS  
**CR24, CR30**



**MORE CARE. BUILT IN.**



# 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 (79 gal) water system is equipped with automatic flow control to increase productivity by extending refilling intervals
- A separate 20,4 l (5.4 gal) 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 (4,000 vpm) 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
- Low fuel alarm
- Radial tires
- Remote hydraulic test ports
- Sound kit
- Special paint
- Steering knob
- 12-ply tires
- Vandal cover
- Water strainer
- Work lights



# SPECIFICATIONS

Model		CR24	CR30
<b>Machine Weights (w/ ROPS)</b>			
Operating Weight	kg (lb)	2 604 (5,742)	2 978 (6,566)
Static Weight @ Drum	kg (lb)	1 339 (2,952)	1 481 (3,266)
Static Weight @ Tires	kg (lb)	1 265 (2,790)	1 497 (3,300)
Shipping Weight	kg (lb)	2 372 (5,230)	2 746 (6,054)
<b>Machine Dimensions</b>			
Overall Length w/ ROPS	mm (in)	2 564 (101)	2 564 (101)
Overall Length w/o ROPS	mm (in)	2 564 (101)	2 564 (101)
Overall Width	mm (in)	1 312 (51.7)	1 452 (56.4)
Overall Height - Top of Steering Wheel	mm (in)	1 826 (71.9)	1 826 (71.9)
Overall Height - Top of ROPS	mm (in)	2 527 (99.5)	2 527 (99.5)
Drum / Tire Base	mm (in)	1 725 (67.9)	1 725 (67.9)
<b>Drum</b>			
Width	mm (in)	1 200 (47)	1 320 (52)
Diameter	mm (in)	732 (28.8)	736 (29)
Shell Thickness (nominal)	mm (in)	12 (0.47)	12 (0.47)
Finish		Machined / chamfered edge	
<b>Tires</b>			
Number		4	4
Size	mm (in)	190,5 x 381 (7.5 x 15) - 6 PR	190,5 x 381 (7.5 x 15) - 6 PR
Tire Load	kN (lb)	313 (690)	362,9 (800)
Tire Wipers		Steel scraper	
<b>Vibration</b>			
Frequency	Hz (vpm)	66,7 (4,000)	66,7 (4,000)
Centrifugal Force	kN (lb)	32 (7,100)	33 (7,500)
Nominal Amplitude	mm (in)	0,41 (0.016)	0,34 (0.013)
Lubrication		Oil splash	
Type System		Open loop	
Vibrating Drums		Front only	
Vibration Isolation		6 shear block isolators per drum	
<b>Propulsion</b>			
Type System		Closed loop, hydrostatic, parallel circuit	
Drum Drive		Pump: axial-piston, Motor: radial-piston, low-speed, high-torque	
Speed — Forward & Reverse	km/h (mph)	0 - 11,5 (0 - 7.1)	0 - 11,5 (0 - 7.2)
Gradeability (theoretical)		47,4%	39,6%
<b>Engine</b>			
Make / Model		Kubota V2203M Tier 4 Interim	Kubota V2203M Tier 4 Interim
Rated Power @ Installed Speed	kW (hp)	31,4 (42.1)	31,4 (42.1)
Type		4-cylinder diesel	4-cylinder diesel
<b>Brakes</b>			
Service		Dynamic hydrostatic through propulsion system	
Parking / Secondary		Spring-applied, hydraulically released	
<b>Steering</b>			
Design		Centerpoint articulation	
Type System		Double-acting, hydraulic, single cylinder	
Articulation Angle		+ / - 30°	+ / - 30°
Outside Turning Radius (measured to drum edge)	mm (in)	3 848 (151.5)	3 907 (153.8)
<b>Water System</b>			
Type / Pump / Flow	l/min (gpm)	Pressurized/electric, diaphragm 0 - 4,5 (0 - 1.2)	
Qty / Nozzle Type (per drum)		4 hand-serviceable nozzles	
Tank Capacity	l (gal)	299 (79)	299 (79)
Filters		100 mesh screen at nozzles, 80 mesh in-line	
Drum Wiper		Spring-loaded, self-adjusting, rubber	
<b>Electrical</b>			
Battery		12 volts, negative ground, 800 CCA	
Alternator		40A	40A
<b>Miscellaneous</b>			
Emulsion Capacity	l (gal)	20,4 (5.4)	20,4 (5.4)
Fuel Capacity	l (gal)	68,1 (18)	68,1 (18)
Hydraulic Capacity	l (gal)	84,8 (22.4)	84,8 (22.4)
Oscillation		+ / - 10°	+ / - 10°
Curb Clearance	mm (in)	Right 481 (18.9) Left 612 (24.1)	Right 606 (23.9) Left 614 (24.2)
Side Clearance	mm (in)	56 (2.2)	56 (2.2)



Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different – **More care. Built in.**



*Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.*

# VOLVO

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