

CR-24 and CR-30 Combination Rollers

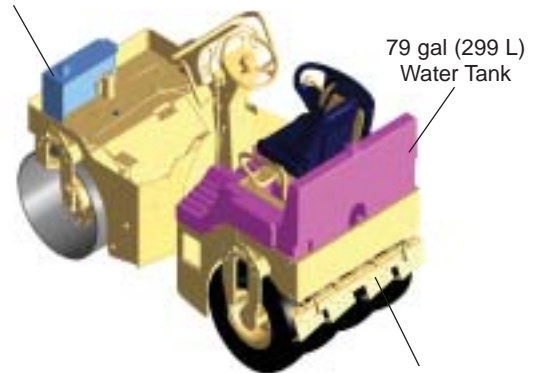


A Powerful Combination

The Ingersoll-Rand CR-24 and CR-30 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 provide 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.

5.4 gal (20.4 L)
Emulsion Tank

79 gal (299 L)
Water Tank



Individual Scrapers
& Cocoa Mats

CR-24 and CR-30 Combination Rollers

Specifications

PRODUCTIVITY

- 79 gal (299 L) water system is equipped with automatic flow control to increase productivity by extending refilling intervals
- A separate 5.4 gal (20.4 L) emulsion tank and pump provide the CR-24 and CR-30 with additional tire spraydown
- Full-day fuel operation
- Automatic vibration control and a frequency of 4,000 vpm (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
- Edge compactor
- Falling Object Protective Structure (FOPS)
- Foldable ROPS
- Gauge package
- Hazard and turn signals
- Hydraulic test ports
- Inside wipers
- Low fuel alarm
- Radial tires
- Sound kit
- Special paint
- Steering knob
- Strobe light
- Tool kit
- 12-ply tires
- Urethane wipers
- Vandal cover
- Water strainer
- Work lights

MODEL	CR-24	CR-30
MACHINE WEIGHTS (W/ ROPS)		
Operating Weight lb (kg)	5,742 (2604)	6,566 (2978)
Static Weight @ Drum lb (kg)	2,952 (1339)	3,266 (1481)
Static Weight @ Tires lb (kg)	2,790 (1265)	3,300 (1497)
Shipping Weight lb (kg)	5,230 (2372)	6,054 (2746)
MACHINE DIMENSIONS		
Overall Length w/ ROPS in (mm)	101 (2564)	101 (2564)
Overall Length w/o ROPS in (mm)	101 (2564)	101 (2564)
Overall Width in (mm)	51.7 (1312)	56.4 (1452)
Overall Height – Top of Steering Wheel in (mm)	71.9 (1826)	71.9 (1826)
Overall Height – Top of ROPS in (mm)	99.5 (2527)	99.5 (2527)
Drum / Tire Base in (mm)	67.9 (1725)	67.9 (1725)
DRUM		
Drum Width in (mm)	47 (1200)	52 (1320)
Drum Diameter in (mm)	28.8 (732)	29 (741)
Drum Shell Thickness (nominal) in (mm)	0.47 (12)	0.47 (12)
Finish	Machined / chamfered edge	
TIRES		
Number	4	
Size	7.5 x 15 – 6 PR	
Tire Load lb (kg)	690 (313)	800 (362.9)
Tire Wipers	Steel scraper	
VIBRATION		
Frequency vpm (Hz)	4,000 (66.7)	
Centrifugal Force lb (kN)	7,100 (32)	7,500 (33)
Nominal Amplitude in (mm)	0.016 (0.41)	0.013 (0.34)
Lubrication	Oil splash	
Type System	Open loop, series circuit	
Vibrating Drums	Front only	
Vibration Isolation	6 shear block isolators per drum	
PROPULSION		
Type System	Closed loop, hydrostatic, parallel circuit to drums	
Drum Drive	Pump: axial-piston, Motor: radial-piston, low-speed, high-torque	
Speed — Forward & Reverse mph (km/h)	0 – 7.2 (0 – 11.6)	
Gradeability (theoretical)	47.4%	39.6%
ENGINE		
Make / Model	Kubota V2203	
Rated Power hp (kW)	44 (32.8) @ 2,450 rpm	
Type	4-cylinder diesel	
BRAKES		
Service	Dynamic hydrostatic through propulsion system	
Parking / Secondary	Spring-applied, hydraulically released on each drum drive	
STEERING		
Design	Centerpoint articulation	
Type System	Double-acting, hydraulic, single cylinder	
Articulation Angle	+ / - 30°	
Outside Turning Radius (measured to drum edge) in (mm)	151.5 (3848)	153.8 (3907)
WATER SYSTEM		
Type / Pump / Flow gpm (L/min)	Pressurized/electric, diaphragm 0 – 1.2 (0 – 4.5)	
Qty / Nozzle Type (per drum)	4 hand-serviceable nozzles	
Tank Capacity gal (L)	79 (299)	
Filters	100 mesh screen at nozzles, 80 mesh in-line	
Drum Wipers	Spring-loaded, self-adjusting, rubber	
ELECTRICAL		
Battery	12V, negative ground, 800 CCA	
Alternator	40A	
MISCELLANEOUS SPECIFICATIONS		
Emulsion Capacity gal (L)	5.4 (20.4)	
Fuel Capacity gal (L)	18 (68.1)	
Hydraulic Capacity gal (L)	22.4 (84.8)	
Oscillation	+ / - 10°	
Curb Clearance: Right in (mm)	18.9 (481)	23.9 (606)
Left in (mm)	24.1 (612)	24.2 (614)
Side Clearance in (mm)	2.2 (56)	2.2 (56)

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

