

CR-70 Combination Roller



The CR-70 is a 6.5 ton (6 tonnes) weight unit that utilizes the forces of vibration and tire manipulation to achieve required density and smoothness on Hot Mix Asphalt (HMA) pavements. The unit can also be used to compact granular or mixed soils, crushed aggregates and cement-treated bases.

The CR-70 features a high performance vibrating drum, 57 inches (1450 mm) in width, providing eight amplitude and force settings to meet project requirements. Automatic vibration control and automatic reversing eccentric rotation to match travel direction further enhance machine performance.

Four rear pneumatic tires, size 9.00x20, 12 ply rated, manipulate the material being compacted to improve surface texture for reduced permeability of the mat.

The vibrating drum and rear tires are provided with independent pressurized water spray systems with flow control and auto operation. Each system includes two electric diaphragm pumps, primary filter and individual fine filters at the spray nozzles. Each polyethylene water tank has 102 gallons (386 liters) capacity with water level gauge, two filler ports with strainer baskets, and drain plug.

A rotating operator console features cushioned seat and adjustable steering console. Controls are positioned to the right of the operator. The console rotates 180 degrees and can be locked into any of five positions for enhanced visibility of the work. Design of the drum/tire axle support legs promotes visibility to where the drum and tires contact the material surface.

A patented drum vibration Impact Meter gives the operator unsurpassed productivity.



CR-70 Specifications						
Machine Weights (with R			Propulsion			
Operating Weight Static Weight	13,300 lb.	(6030 kg)	Type System Drive		oop hydrostatic	
at Front Drum	7,520 lb.	(3410 kg)	Drive	Low speed, high	um and tire axle	
Static Weight	7,020 15.	(orrong)	Speed	0-6.2 mph	(0-9.9 km/hr)	
at Rear Drum	5,780 lb.	(2620 kg)	Gradeability (theoretical)			
Shipping Weight	13,040 lb.	(5915 kg)	Facility			
Machine Dimensions			Engine Make & Model		Cummins B 3.9	
Overall Length	14 ft. 8 in.	(4470 mm)	Rated Power @ 2500 rpi		(60 kW)	
Overall Width	63.3 in.	(1610 mm)	Electrical System		12-volt	
Overall Height						
(top of steering wheel)	86.6 in.	(2200 mm)	Brakes	Dime	unaia lauraluna akakia	
Overall Height (top of ROPS/FOPS)	111.5 in.	(2830 mm)	Service		ımic hydrostatic opulsion system	
Drum-Tire Base	117.1 in.	(2975 mm)		tinough pro	pulsion system	
Curb Clearance	22 in.	(560 mm)	Parking/Secondary Sp	ring-Applied, Hydrau		
Outside Turning Radius	189 in.	(4805 mm)		(SAHR) on dr	um and tire axle	
Drum			Steering Design	Contorn	oint articulation	
Drum Width	57 in.	(1450 mm)	Type System	Genterp	Hydrostatic	
Drum Diameter	41.3 in.	(1050 mm)	Articulation Angle		+/- 40°	
Shell Thickness						
(nominal) Finish Mach	0.79 in.	(20 mm)	Water System		ble flavo sambual	
Finish Machined/chamfered with radiused edge		Type Pr Pump	Pressurized, with variable flow control Four electric diaphragm			
Tires			Nozzles	Five main, five au		
Size and ply	9.00-20 12 ply			Four main, four auxiliary for tires		
Number of tires		Four	Filters	004	Three	
Vibration			Tank Capacity	204 gal.	(772 liters)	
Frequency			Miscellaneous Specifica	ations		
High	3300 vpm	(55 Hz)	Fuel Capacity	37 gal.	(140 liters)	
Centrifugal Force		(22.11)	Hydraulic Oil Capacity	17 gal.	(64 liters)	
Maximum Minimum	17,970 lb.	(80 kN)	Oscillation Angle		+/- 10°	
Amplitude Settings	8,940 lb.	(40 kN) Eight				
Nominal Amplitude		Ligit				
Maximum	.021 in.	(.54 mm)				
Minimum	.011 in.	(.27 mm)				

Standard Features

- · Automatic reversing eccentric
- · Automatic vibration control
- · Auxiliary water spray system for drum and tires
- · Eight amplitude settings for drum
- · Gas spring-loaded drum wiper
- · Impact spacing Meter
- · ROPS/FOPS with seat belt
- Tires with cocoa mats and scrapers
- Vibrations isolated operator's problem
- · Work lights

Options

- Back-up alarm
- Biodegradable hydraulic oil
- · Cab with A/C and heat
- · Cocoa mat for drum
- Edge cutter/compactor
- Gauge package
- HID night operating lights
- · Inside drum wiper
- · Infrared mat temperature sensor
- Offset steering
- Urethane drum wipers
- Speed limiter
- · Strobe light
- Contact factory for additional options

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