

PT-240R Pneumatic Tire Compactor



Pneumatic Tire Compactor — Knead for Uniformity

The Ingersoll-Rand PT-240R is an eight-wheel pneumatic tire compactor typically utilized on hot mix asphalt (HMA). Other applications include rolling surface treatments like chip and seal, and soil stabilization with modifiers such as asphalt emulsion, calcium chloride, fly ash, lime, Portland cement, or other materials. A turbocharged four-cylinder Cummins BT4.5-C99 diesel engine provides sufficient power for altitude operation, rolling on steeper grades, and on materials with higher rolling resistance. The operator can select between two operating positions on either side of the platform.

Key Features

- Dual operator control stations, accessed from either side of the machine
- An optional central tire inflation system and variable operating weight permit adjustment of tire ground contact area and pressure to match material requirements
- Front wheels designed to float and oscillate to evenly compact irregularities in the material surface
- Smooth operation and direction change through an efficient gear set driving each pair of rear wheels
- Standard heat skirts retain heat in the tires and prevent pick-up when rolling hot mix asphalt
- A pressurized water spray system helps prevent tire pick-up when rolling hot mix asphalt
- “ONE METER BY ONE METER” visibility allows operator to see objects one meter in height as close as one meter in front of or behind the compactor
- Watertight ballast compartments can be filled with water, wet sand, steel, or a combination of ballast material to meet the job requirements

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Specifications

ADDITIONAL FEATURES

- Back-up alarm
- Differential lock
- Horn
- Emergency stop button
- Pressurized water system with brush scrapers on each tire
- Tire heat skirts
- Work lights (front and rear)
- Turn signals and four-way flashers
- Gauges
 - Hour meter
 - Fuel
 - Gearbox oil pressure
 - Gearbox oil temperature
 - Engine temperature
 - Brake system pressure
- Vandal protection
- ROPS with FOPS and seat belts

SELECTED OPTIONS

- Central tire inflation system
- Beacon lamp
- Cab with heat
- Cab with heat and air conditioning
- Special paint

GROUND CONTACT PRESSURE (PSI)

WHEEL LOAD	TIRE INFLATION PRESSURE (PSI)			
	30	60	90	120
4,400 lb (2000 kg)	42	57	63	71
5,500 lb (2500 kg)	45	62	69	77
6,600 lb (3000 kg)	50	65	73	79

MODEL

PT-240R

MACHINE WEIGHTS (WITH ROPS, FOPS, HEAT SKIRTS)

Shipping Weight – lb (kg)		35,760 (16220)
Operating Weight – lb (kg)	Unballasted	36,070 (16360)
	Fully ballasted	52,910 (24000)
	Weight of ballast	16,840 (7640)

MACHINE DIMENSIONS

Overall Length – in (mm)		188 (4775)
	With heat skirts	214 (5440)
Overall Width – in (mm)		89.2 (2265)
	With heat skirts	91 (2310)
Overall Height – in (mm)	Top of steering wheel	91.1 (2315)
	Top of ROPS	119.7 (3040)
Wheelbase – in (mm)		137.8 (3500)
Curb Clearance – in (mm)		11.8 (300)
Outside Turning Radius – in (mm)		338.6 (8600)

COMPACTION

Rolling Width – in (mm)		78.2 (1985)
Tire Overlap When Straight – in (mm)		2 (50)
Wheel Load Per Tire – lb (kg)	Unballasted	4,510 (2045)
	Fully ballasted	6,548 (2970)

TIRES

Size & Ply		11.00 x 20 18-ply
Number Of Tires		8
Tire Oscillation		Front tire pairs + / - 5°

PROPULSION

Type System		Powershift
Drive		Rear axle through 3-speed mechanical gearbox
Speed – mph (km/h)		0 – 11.8 (0 – 19.0)
Gradeability (theoretical)		47%

ENGINE

Make & Model		Cummins BT4.5-C99
Type		Turbocharged 4-cylinder
Rated Power @ 2,500 rpm – hp (kW)		99 (74)
Electrical System		12 V

BRAKES

Service		Drum shoes in rear wheels
Parking / Secondary		Disc on final drive input

STEERING

Design		Front wheel pairs
Type System		Hydraulic power

WATER SYSTEM

Type		Pressurized, with flow control
Pump		Electric diaphragm
Tank Capacity – gal (L)		75 (285)
Filters		2 stages
Nozzles		1 spray nozzle per tire

MISCELLANEOUS

Fuel Capacity – gal (L)		66 (250)
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Designs and specifications are subject to change without notice or obligation.

