

SPECIFICATIONS

FIFTEEN TON RIGID FRAME PNEUMATIC TIRE ROLLER

It is the intent of these specifications to describe a 9-wheel rigid frame pneumatic tire roller in sufficient detail to secure bids on comparable equipment. All rollers bid shall conform in strength, quality of materials and workmanship to what is usually provided the trade in general. The roller shall be a new standard production model of the latest design in current production by the manufacturer.

EXAMPLE: INGRAM RP915B ROLLER

Any unit not conforming to these specifications will be rejected, and it will be the responsibility of the bidder to conform to these requirements, unless deviations have been cited in the bid and acceptance made on that basis.

GENERAL

Latest model self-propelled nine-wheel rigid frame, pneumatic-tire roller, weighing at least **12,500 pounds** metal weight in its standard configuration with a fully ballasted weight using wet sand of at least **30,500 pounds**.

ENGINE:

Unit to be equipped with a four-cylinder water-cooler diesel engine capable of producing 80 HP at 2200 RPM meeting all applicable EPA specifications for off-highway emissions. Engine to have 12-volt electrical system, 95 amp alternator, dry air cleaner with safety element, filter condition indicator and vacuator valve. Oil filter and fuel filter shall be provided. Engine shutdown with loss of oil pressure. Engine neutral safety interlock prohibits engine from starting unless in neutral and parking brake applied. Side by side cooling package eliminating hot air being ingested into either the engine cooler or the hydraulic cooler. Low mounted fuel tank allowing for street level filling. Low mounted muffler for reduced noise to the operator. Dual side panels allowing full access to engine, hydraulic and electrical components.

TRANSMISSION:

Hydrostatic drive, with wheel motors mounted directly to the drive wheels. A single electric displacement control lever shall control direction, speed, and braking. No chain drive. All o-ring flat face hydraulic components are used throughout the hydraulic system.

BRAKES:

Service braking is dynamic through the hydrostatic transmission. Parking brake shall be spring applied, hydraulically released. Parking brake interlock shall be wired into the hydrostatic control to insure no propel torque is applied when brake switch is ON. Park brake interlock when starting engine.

WHEELS / TIRES:

Rollers shall have 9 wheels, with 5 on the front, and 4 on the rear. The four wheels in the rear shall be driven. All wheels shall oscillate, either individually or in pairs. Roller to be equipped with 7:50 x 15, 14-ply smooth compactor-type tires.

OPERATOR'S PLATFORM / CONTROLS:

Full hydraulic powered yoke steering through orbital control. The operator's compartment should consist of one fully adjustable shock-mounted seat with slide. The slide shall allow side to side movement to enable the operator to have good visibility from either side of the machine. Side to side seat slide with 180 degree rotation to eliminate neck strain when traveling back and forth. All controls should be mounted within easy reach of the operator while seated.

INSTRUMENTATION:

Machine shall be equipped with gauges for the following functions: fuel level, hours of operation, engine speed, engine oil pressure, water temperature and voltage. A dual hydraulic sight level and temperature gauge will be standard. Vandal cover for instrument panel shall be provided.

SAFETY:

Roller to be equipped with roll over protective structure (ROPS), seat-belt and back-up alarm.

BALLAST COMPARTMENTS:

Roller shall have a front body ballast compartment, center body ballast and a rear body ballast compartment. Ballast capacity of not less than 150 cubic feet.

SPRINKLER SYSTEM:

Roller shall be equipped with water tank of at least 110 gallon capacity. Spray nozzles and cocoa mats shall be provided for each individual tire. The tank is to be equipped with a 70-mesh filler screen and an inline 100-mesh filter. The spray system shall be pressurized and shall have an automatic feature that turns the water spray on when the roller is placed in motion and off when the machine is brought to a stop. All controls to be convenient to the operator.

MISCELLANEOUS:

Roller to be equipped with five tie down points, three front and two rear.

DIMENSIONS:

Shipping Weight: 12,500 lbs.

Rolling Width: 68"

Body Width: 75.4"

Overall Length: 180"

Wheel Base: 130.5"

Ground Clearance: 11"

Height with ROPS: 119"

Inside Turning Radius: 128"

Tire overlap: .5"

Tire size: 7:50 x 15 – 14 ply

Tire oscillation front: +/- 4 degrees

Tire oscillation rear: +/- 4 degrees

Yoke oscillation: +/- 10 degrees

CAPACITIES:

Fuel Tank: 40 US Gallons

Coolant: 15 Quarts

Hydraulic Reservoir: 60 US Gallons

Water Tank: 110 US Gallons

Body Ballast: 150 Cubic Feet

Body Ballast: 1122 US Gallons

OPTIONAL EQUIPMENT: May be substituted or added to basic specifications:

WORK LIGHTS - Sealed beam lights (2 front, 2 rear)

LIGHT PACKAGE - Tail lights (2 rear), directional lights and flashers
(2 front, 2 rear)

STROBE LIGHT - Amber, ON/OFF control from operator's station

SKIRT PACKAGE - To retain heat inside tire compartment (front & rear)

NYLON SCRAPERS - Spring loaded nylon scraper for each tire

RADIAL TIRES - Reduces potential for picking up material from asphalt mat

SUSPENSION SEAT - Improved Operator comfort over standard seat

SUNSHADE - Bolt on sunshade to protect operator from the sun

FOPS - Falling object protective structure

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