

SPECIFICATIONS

FIFTEEN TON ARTICULATED PNEUMATIC TIRE ROLLER

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

EXAMPLE: INGRAM AP915 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 articulated, pneumatic-tire roller, weighing at least **13,200 pounds** metal weight in its standard configuration, ballast-able to at least **30,000 pounds** but not exceeding this limit.

ENGINE:

Unit to be equipped with a four-cylinder water-cooled diesel engine with not less than 274 cubic inch displacement capable of producing 80 HP at 2200 RPM. 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 shut-down with loss of oil pressure. Engine neutral safety interlock prohibits engine from starting unless in neutral. Side by side cooler package eliminating hot air being ingested into either the engine cooler or the hydraulic cooler. Low mounted diesel fuel tanks allowing for street level filling with dual side fuel fill. Low mounted muffler for reduced noise to the operator. Swing out engine/hydrostatic/radiator access doors for ease of service and maintenance. Serviceability and access is 100% with the removal of the fiberglass hood.

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 drives. 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 assure no propel torque is applied when brake switch is ON. Park brake interlock when starting engine.

WHEELS:

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.

CONTROLS:

Full hydraulic powered articulated frame steering through orbitrol 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 an instrument panel, which displays the following functions: fuel level, hours of operation, engine speed, engine oil pressure, water temperature and voltmeter. A dual hydraulic sight level and temperature gauge, backup alarm shall also be provided. 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 and a rear body ballast compartment. Ballast compartment capacity not less than 61 cubic feet.

SPRINKLER SYSTEM:

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

DIMENSIONS:

Shipping Weight: 13,200 lbs.

Rolling Width: 68"

Body Width: 64"

Overall Length: 170"

Wheel Base: 101"

Ground Clearance: 10.5"

Height with ROPS: 112"

Inside Turning Radius: 118"

Tire overlap: .5"

Tire size: 7:50 x 15-14ply

Tire oscillation front: +/- 4 degrees

Tire oscillation rear: +/- 4 degrees

Frame articulation: +/- 39 degrees

Frame oscillation: +/- 10 degrees

CAPACITIES:

Fuel Tank: 33 US Gallons

Hydraulic Reservoir: 25 US Gallons

Sprinkler Water Tank: 110 US Gallons

Body Ballast: 61 Cubic Feet

Body Ballast: 456 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