

## **SPECIFICATIONS**

### **FIVE TO SEVEN TON RIGID FRAME, STATIC STEEL DRUM ROLLER**

It is the intent of these specifications to describe a tandem drum static 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 RS207 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 rigid frame, tandem static steel drum roller, weighing at least **9,800 pounds** metal weight in its standard configuration, ballast-able to at least **15,035 pounds** but not exceeding this limit.

#### **ENGINE:**

Unit to be equipped with a four-cylinder water-cooled diesel engine with not less than 134 cubic inch displacement capable of producing 50 HP at 2800 RPM. Engine to have 12-volt electrical system, alternator, two stage dry air cleaner with safety element and filter condition indicator. 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.

#### **TRANSMISSION:**

Hydrostatic drive, with piston motor / gearbox reduction mounted directly to the compression drum. A single cable 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 assure no propel torque is applied when brake switch is ON. Parking brake interlock when starting engine.

**DRUMS:**

Roller shall have three drums, with one in the front, and a split drum in the rear. The front shall be the compression drum and shall be 42 inches wide with a 48 inch diameter. The compression drum shall have a shell thickness of 7/8 of an inch. The rear split drum shall be 40 inches wide and 34 inches in diameter. The rear drum shall be the steering drum with a shell thickness of 3/4 of an inch. The operator sits above the drive drum. Full view of the drive drum from the operator's seat.

**CONTROLS:**

Full hydraulic powered yoke 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 vision 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. 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.

**SPRINKLER SYSTEM:**

Roller shall be equipped with water tank of at least 100 gallon capacity, and with spray nozzles, dual spring loaded nylon scrapers and cocoa mats for each drum. 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:	9,800 lbs.
Shipping Weight w/tow package:	11,100 lbs.
Rolling Width:	42"
Body Width:	51"
Overall Length:	150.5"
Ground Clearance:	12"
Height with ROPS:	112"
Body Width w/tow package:	84"
Overall Length w/tow package:	162"
Ground Clearance w/tow package:	10"
Fuel Capacity:	20 gallons
Turning Radius Inside:	13'7"
Turning Radius Outside:	19'5"

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

**LIGHT PACKAGE** - Sealed beam lights (2 front & 2 rear)  
Tail lights (2 rear), directional lights and  
flashers (2 front & 2 rear)

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

**SUNSHADE** - Bolt on sunshade to protect operator from the sun

**TOW PACKAGE** - Power driven hydraulic retractable wheel attachment with locking mechanism to lock wheels in position for transport or operation. 11.00 x 22.5, 12-ply tires. Towing tongue to be mounted on the compression roll end of roller, operated by hydraulic cylinder. Turn indicators, stop and tail lights for control from the truck cab. Electric brakes with breakaway included in the towing package.