

Vibratory Roller

35% gradeability with tandem drum hydrostatic drive
Front, rear and dual drum vibration control
Compacts asphalt and soil to 19.7" (500 mm)

252



Case[®]

252

Model 252 Specifications

Engine

Make and model	Hatz 2L40S
Type of fuel	No. 2 diesel
No. of cylinders	2
Bore and stroke	4" x 4.1" (102 mm x 105 mm)
Displacement	104.2 in ³ (1708 cm ³)
Compression ratio	18.0 to 1
Fuel induction	Direct injection
Fuel supply	Injection pump
Fuel consumption	1.32 gal/hr (5.0 L/hr)
Air cleaner	Dual dry type — replaceable cartridge
Oil filter	Spin-on cartridge
Lubrication	Full flow
Cooling system	Air
Horsepower	
(1) Gross	34 @ 2600 rpm (25.4 kW @ 2600 r/min)
(2) SAE Net	31 @ 2600 rpm (22.7 kW @ 2600 r/min)
Max. torque ft-lb	
(1) Gross	71 @ 2200 rpm (96 Nm @ 2200 r/min)
(2) SAE Net	58 @ 2200 rpm (79 Nm @ 2200 r/min)
(1) Gross engine horsepower or torque at flywheel per SAE Standard J1349.	
(2) Net engine horsepower or torque at flywheel per SAE Standard J1349.	

Electrical

System voltage	12 volt
Battery (1)	12 volt
Alternator	55 amp

Ground Drive System

Propulsion: Hydrostatic, variable displacement pump with flex coupling between engine and pump.

Vibration Drive System

Individual control of front, rear or dual. Automatic shut-off when changing from forward to reverse directions. Vibrator: Hydrostatic, fixed displacement drive motor at each drum.

Brakes

Operating Hydrostatic braking in neutral with engine running effective on both drums.
Parking . . . Spring applied, hydraulically released at rear drum.

Steering

Articulated design with hydraulic power steering.
Relief valve setting 2030 psi (13 996 kPa)
Steering cylinder 1

Hydraulic System

Hydraulic pump —
Capacity:
ground drive . . . 0-26 gpm (98.4 L/min)
vibrator drive . . . 7.6 gpm (28.6 L/min)
steering 4.1 gpm (15.6 L/min)
Relief setting
ground drive forward
and reverse . . . 2530 psi (17 444 kPa)
vibrator drive . . . 2530 psi (17 444 kPa)
steering 2030 psi (13 996 kPa)
Filtration full-flow cartridge —
20-25 micron rating
Hydraulic lines Steel tubing with
brazed or flared fittings and wire braid,
high-pressure hose with crimped full-flow
fittings.

Filters

Engine oil Spin-on cartridge
Fuel Replaceable cartridge
Hydraulic oil . . Individual filters for each
hydraulic circuit — ground drive, vibrator
drive and steering located in hydraulic
reservoir.
Air Dry-type replaceable cartridge

Service Capacities

	U.S. Gals.	Liters
Fuel tank	13.2	50
Engine oil	5.8 qt	5.5
Hydraulic reservoir	16.6	63
Hydraulic system	19.8	75

Travel Speeds

Working range —
forward/reverse 0 to 5 mph
(0 to 8 km/h)

Water Sprinkler System

Pressurization . . . 12 volt with controls at
operator's station
Tank Internally coated to resist
rust and corrosion
Capacity 52.8 US gal (200 L)

Indicator Lights and Gauges

Hourmeter • Pushbutton control for: horn,
front and rear vibration on/off, automatic
vibration, sprinkler pump, front and rear
lights and 4-way flasher • Warning indicator
lights for: alternator charge, engine oil
pressure, air cleaner, engine temperature
and neutral start.

Standard Equipment

Automatic vibration on/off • Beveled
drums • Deluxe seat • Directional signals
and horn • Four-way flasher • Front and
rear lights • Hand throttle • Hourmeter
• Instrument panel cover • Lock-up kit
• Parking brake • Tie-down eyes • Tool
compartment • Tow valve • Vulcolan drum
scrapers • Water sprinkler system.

Optional Equipment

• Back-up alarm • ROPS.



Simple Instrumentation

Center steering console features 7-function multi-gauge and simple, convenient controls.



Optimum Serviceability

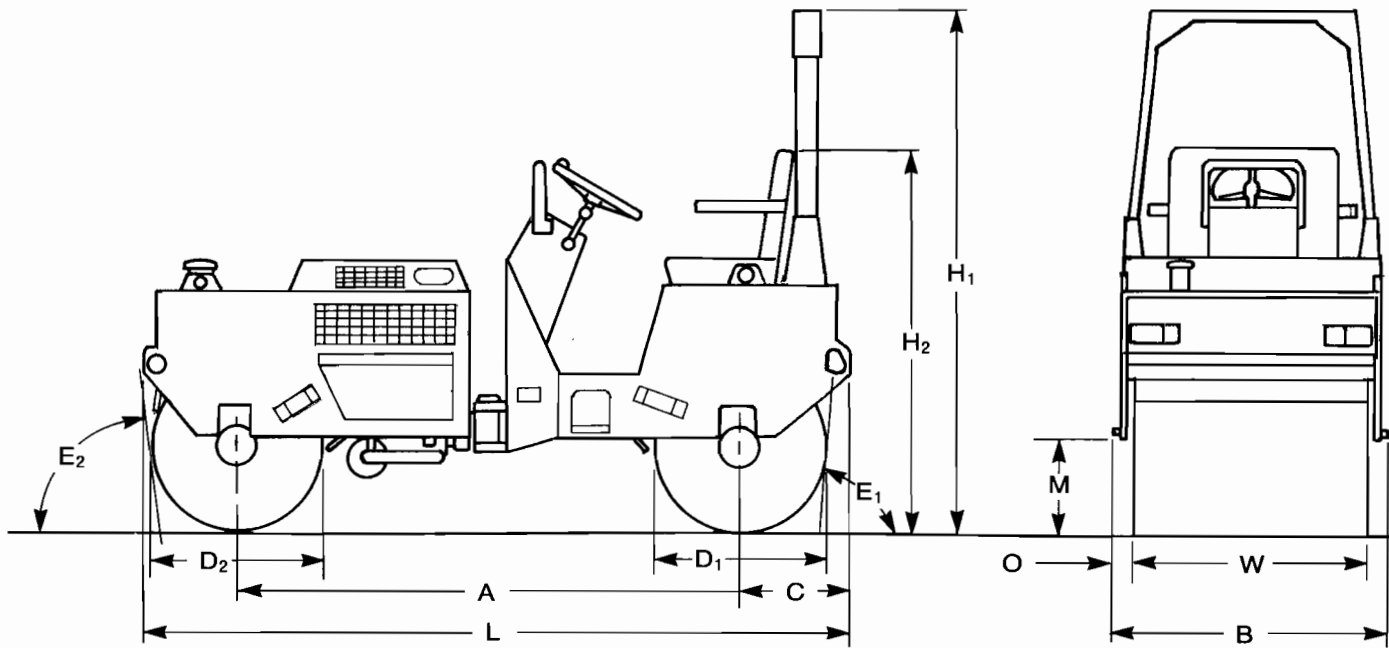
Flip-up hood provides easy access to engine and hydraulics.



Convenient Extras Standard

Standard equipment includes water sprinkler system, dual retractable scrapers, front and rear lights and four-way flasher.

252 Dimensional Data



	A	B	C	D ₁	D ₂	H ₁	H ₂	L	O	W	E ₁	E ₂	M
in	84.3	41.4	16.8	29.5	29.5	91.3	63.8	115.9	1	39.4	86°	86°	15.7
mm	2141	1052	426	750	750	2319	1620	2945	25.4	1000			400

Operating Data

Operating weight	5512 lb (2500 kg)
Drum weight (unsprung)	
front	794 lb (360 kg)
rear	794 lb (360 kg)
Weight distribution—	
front	2855 lb (1295 kg)
rear	2657 lb (1205 kg)
Static linear drum load (P.L.I.)	
front	72.5 lb/in (12.95 kg/cm)
rear	67 lb/in (12.05 kg/cm)
Centrifugal force per drum	6744 lbf (30 kN)
Centrifugal force/rolling width (P.L.I.)	171 lbf/in (300 N/cm)
Frequency	3500 vpm (58.3 Hz)
Amplitude (Nominal)	0.023" (0.58 mm)
Total applied linear force	
front	243.6 lbf/in (27.52 Nm)
rear	238.6 lbf/in (26.96 Nm)
Articulation	35°
Oscillation	15°
Turning radius—inside	11'5" (3.5 m)
Drum shell thickness	0.47" (12 mm)
Depth of compaction	19.7" (500 mm)

Model 252



Sold and serviced by:

Note: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

Important

J I Case Company reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Unit illustrated is equipped with non-standard items.

J I Case

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