

Vibratory Roller

Choice of smooth or padfoot version

Hydrostatic drum and axle drive for maximum gradeability

Field interchangeable smooth, rubber-coated and padfoot drums

1102



case

1102

Model 1102 Specifications

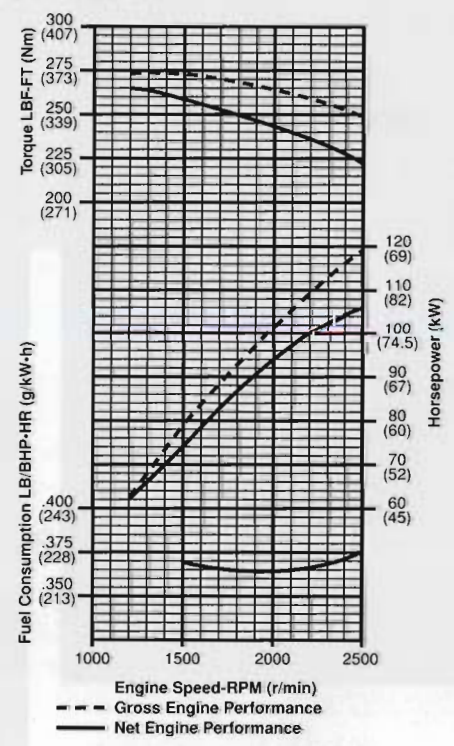
Engine

Make and model **Case 6-590**
 Fuel No. 2 diesel
 No. of cylinders 6
 Bore and stroke 4.02" x 4.72"
 (102 mm x 120 mm)
 Displacement 359 in³ (5883 cm³)
 Compression ratio 17.0 to 1
 Fuel induction Naturally aspirated
 Fuel supply Mechanical lift pump
 and rotary injection pump

Air cleaner Dry cartridge plus
 safety element
 Oil filter Full flow spin-on cartridge
 Lubrication Pressurized with
 piston oil cooling
 Cooling system 15 psi (103 kPa)
 Engine gradeability 45°
 Horsepower
 (1) Gross 118 @ 2500 rpm
 (88 kW @ 2500 r/min)
 (2) SAE net 105 @ 2500 rpm
 (78.3 kW @ 2500 r/min)
 Max. torque ft-lb
 (1) Gross 273 @ 1200 rpm
 (370 Nm @ 1200 r/min)
 (2) SAE net 267 @ 1200 rpm
 (362 @ 1200 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.

Power Curve



Electrical

System voltage 12
 Battery (1) 540 cold cranking amps
 Alternator 65 amp

Ground Drive System

Hydrostatic drive for infinitely variable work and travel speeds, plus 2-speed ground drive with push button selector for on-the-go shifting. Drive to drum and rear wheels.

Vibratory Drive

Piston pump with one displacement setting on 1102PD, two displacement positions on 1102D.

Brakes

Hydrostatic braking in neutral position of ground drive pump with engine running. Mechanical drum-type parking brake is hand-operated with warning light and audible alarm.

Axle

Outboard planetary axle mounted to frame. Differential lock engaged with push-button control, locks both drive wheels for added traction. Lock engages in straight ahead position with lock indicator light on.

Tires

Size	Ply rating	Tread
23.1 x 26	8	Diamond
Option with sprinkler kit		
23.1 x 26	10	Smooth

Steering

Articulated design with hydraulic power steering. Steering control can be adjusted to either side.

Hydraulic System

Ground drive:
 Piston-type variable displacement pump with fixed displacement motor on drum and 2-speed motor on axle.

Filters

Engine oil spin-on cartridge
 Fuel spin-on cartridge
 Hydraulic replaceable cartridge
 Air dual replaceable elements

Service Capacities

	U.S. Gal	Liters
Fuel tank	74	280
Engine oil	17.2 qt	16.3
Hydraulic reservoir	18.5	70
Cooling system	6.9	26

Travel Speeds

Working range—
 forward/reverse 3.7 mph (6 km/h)
 Transport range—
 forward/reverse 7.0 mph (11 km/h)

Water Sprinkler System (Optional)

Pressurization 12-volt with controls
 at operator's station
 Tank Internally coated to resist
 rust and corrosion
 Capacity . Drum . . . 158 U.S. gal. (598 L)
 Tires 13.2 U.S. gal (50 L)

Indicator Lights and Gauges

Engine temperature • Fuel gauge • Hourmeter • Pushbutton control for: horn, high-low range and differential lock with indicator light • Warning lights for: alternator charge, engine oil pressure.

Standard Equipment

Articulation joint service lock • Dual seats • Engine side covers • Fuel tank, hydraulic tank and ignition equipped with locks • Hand rails for mounting and dismounting unit • Horn • Lockable cover for instrument panel • Maintenance-free articulation joint • Oil bath vibration lubrication • ROPS • Sliding steering control.

Optional Equipment

All-weather cab • Asphalt sprinkler kit • Backup alarm • Front and rear lights • Hydraulic parking brake • Interchangeable smooth, padfoot and rubber-coated drums • Leveling blade • Sunshade.

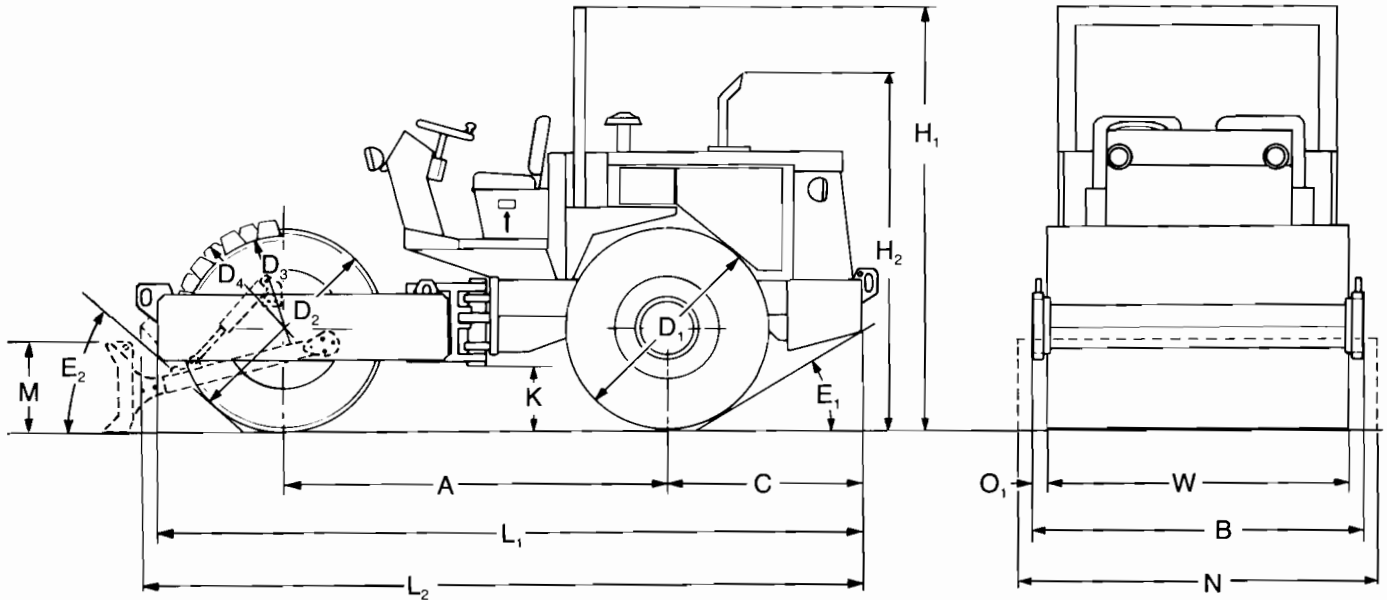


Adjustable steering control can be moved on slide rail to either side of compartment for excellent drum edge visibility.



Vibrator and ground drivemotors are recessed into drum for working close to graded areas, curbs or sidewalks.

1102D/1102PD Dimensional Data



	A	B	C	D ₁	D ₂	D ₃	D ₄	H ₁	H ₂	K	L ₁	L ₂	O ₁	W	E ₁	E ₂	M	N
in	112	90.5	56.1	60	59	55	63	118	100	21	205	209	3.0	84.6	30°	40°	25	103
m	2.84	2.3	1.42	1.5	1.5	1.4	1.6	3	2.5	0.53	5.2	5.3	0.076	12.1			0.64	2.6

Operating Data

	1102D		1102PD
Operating weight	24,475 lb (11 102 kg)		25,354 lb (11 500 kg)
Weight distribution			
front	12,789 lb (5801 kg)		13,668 lb (6200 kg)
rear	22,686 lb (5301 kg)		11,686 lb (5301 kg)
Static applied linear drum load (P.L.I.)	151 lb/in (27 kg/cm)		—
Drum weight (unsprung)	7055 lb (3200 kg)		7055 lb (3200 kg)
Articulation	37°		37°
Oscillation	15°		15°
Turning radius — inside	12.0' (3.7 m)		12.0' (3.7 m)
Drum shell thickness	1.0" (25 mm)		1.0" (25 mm)
Number of feet	—		144
Height of foot	—		3.9" (99 mm)
Contact area of foot	—		14.8 in ² (95 cm ²)
Max. depth of compaction	39" (991 mm)		39" (991 mm)
	1st Stage	2nd Stage	1st Stage
Frequency	1680 VPM (28 Hz)	2160 VPM (36 Hz)	1680 VPM (28 Hz)
Amplitude	0.06" (1.5 mm)	0.02" (0.51 mm)	0.06" (1.5 mm)
Centrifugal force	38,666 lbf (172 kN)	23,604 lbf (105 kN)	38,666 lbf (172 kN)
Centrifugal force/ drum width	457 lb/in (800 N/cm)	279 lb/in (488 N/cm)	—
Total applied force	51,452 lbf (229 kN)	36,390 lbf (162 kN)	52,334 lbf (233 kN)
Total applied linear force	608 lb/in (1046 N/cm)	430 lb/in (753 N/cm)	—

Model 1102D/1102PD

1102D/1102PD Dimensional Data



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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