



# 1102 Series Self-Propelled Vibratory Roller



- Hydrostatic drive for smooth, easy handling plus infinitely variable travel speeds
- Model 1102 features one amplitude/one frequency without drum drive — ideal for compacting most light to heavy soils
- Drum drive unit (1102D) has choice of two amplitudes/two frequencies — versatility for compacting thin to thick layers, and for dry rolling sand over clay, rocks and boulders
- Tamping-foot drum model with drum drive (1102PD) designed for compacting cohesive soil requiring maximum centrifugal force
- Smooth and pad-foot drums interchangeable in the field on drum drive units
- Model 1102 — 5-cylinder 99hp (73.8 kW) air-cooled diesel engine; Model 1102D/1102PD — 6-cylinder 119 hp (88.7 kW) air-cooled diesel engine; for reliable fuel-efficient power to match job needs
- All hydraulic components enclosed, fully protected within frame
- Rugged 1 in (25 mm) wear-resistant steel drum incorporates tie-bar scraper for self cleaning in both directions
- Push-button controlled differential lock, standard equipment
- Two-speed ground drive shifts on the go with push-button control

**Note:** Unit shown is equipped with non-standard items.

**JI Case**

A Tenneco Company

Construction Equipment Division  
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# SPECIFICATIONS

## 1102 SERIES

### SELF-PROPELLED

### VIBRATORY ROLLER

#### ENGINE DATA

	Model 1102	Model 1102D/1102PD
Make	Deutz	Deutz
Model	F 5 L 912	F 6 L 912
Type	4 stroke, air cooled 5-cylinder, diesel	4 stroke, air cooled 6-cylinder, diesel
Piston displacement	287 in <sup>3</sup> (4710 cm <sup>3</sup> )	345 in <sup>3</sup> (5554 cm <sup>3</sup> )
SAE net	99 hp (73.8 kW)	119 hp (88.7 kW)
Engine Speed	2500 rpm	2500 rpm
Starting	12 V	12 V

#### FLUID CAPACITIES

	Model 1102	Model 1102D/1102PD
Fuel Tank	74 gal U.S. (280 L)	74 gal U.S. (280 L)
Engine Crankcase	3.2 gal U.S. (12.0 L)	3.4 gal U.S. (13.0 L)
Hydraulic Reservoir	18.5 gal U.S. (70 L)	18.5 gal U.S. (70 L)

#### GROUND DRIVE

Hydrostatic drive with infinitely variable speed control both forward and reverse.

1102 — Hydrostatic drive to rear wheels only.

1102D, 1102PD — Hydrostatic drive to the drum and rear wheels.

Plus 2-speed ground drive with push-button selector for on the go shift.

#### AXLE

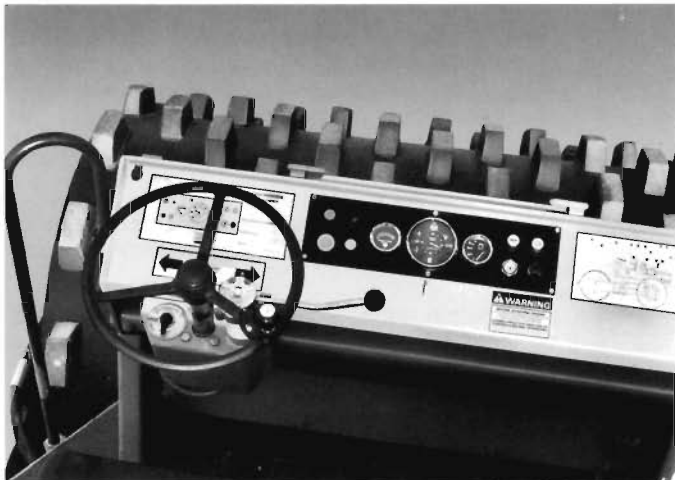
Outboard planetary axle mounted to frame. Differential lock engaged with push-button control, locks both drive wheels for added traction. Lock engages only in straight ahead position with lock indicator light on.

#### BRAKES

Hydrostatic braking in neutral position of ground drive pump with engine running. Parking brake, mechanical drum type, hand operated with warning light.

#### STEERING

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



Lockable instrument panel is standard equipment.

#### HYDRAULIC SYSTEM

Ground Drive — piston type variable displacement pump with fixed displacement 2-speed motor on drum (drum drive version).

Piston type variable displacement pump and 2-speed fixed displacement motor on rear wheels.

#### VIBRATOR DRIVE

Piston type pump with one displacement setting on single frequency models and 2 displacement positions on dual frequency model.



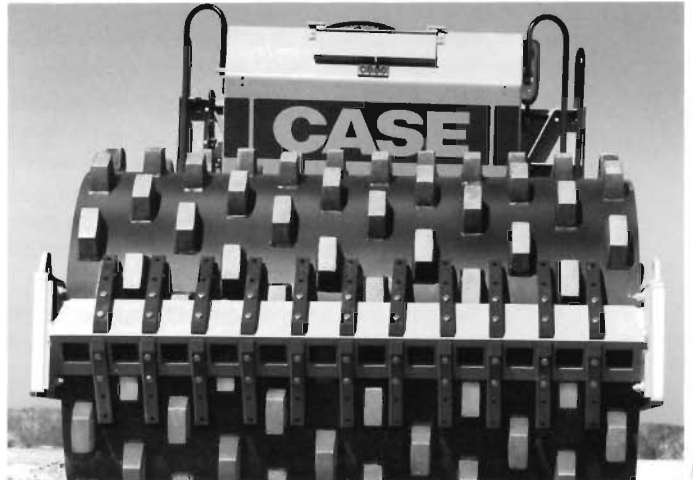
Vibrator and ground drive motors are recessed into drum.

#### OPERATING DATA

Depth of compaction	39 in (1000 mm)
Speed: working range fwd/rev	3.7 mph (6 km/h)
Transport range fwd/rev	7.5 mph (12 km/h)
Steering type	Articulated power steering
Articulation to either side	37°
Oscillation	15°
Turning radius	12 ft (3.7 m)
Drum thickness	1.0 in (25 mm)

#### TAMPING FOOT VERSION (1102PD)

Number of feet	144
Number of ft/yd <sup>2</sup>	15
Height of foot	3.9 in (100 mm)
Contact area of foot	14.8 in <sup>2</sup> (96 mm <sup>2</sup> )



Tamping-foot drum can be interchanged with smooth drum.

## INDICATOR LIGHTS AND GAUGES

Fuel gauge, hour meter, engine temperature gauge, warning indicator lights for: alternator charge, engine oil pressure, engine blower belt and neutral start. Push-button control for horn, low-high range shift and differential lock with indicator light.

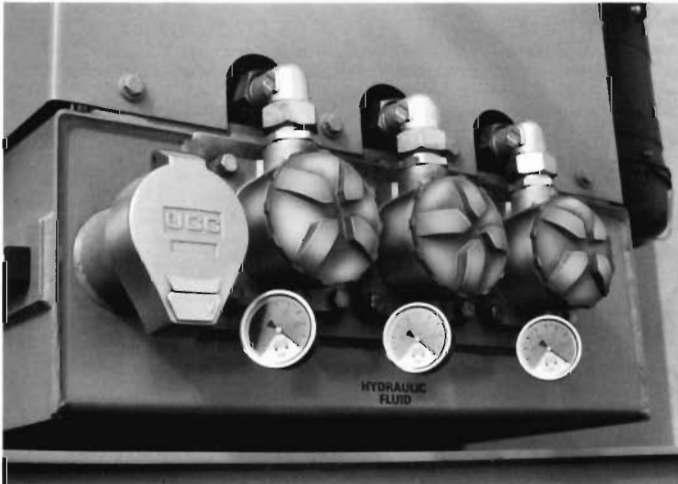
## FILTERS

Hydraulic oil —  
 ground drive element — Mounted in the hydraulic  
 vibrator drive element — tank and equipped with  
 steering element — condition indicators.

Engine oil — spin-on type cartridge.

Fuel — spin-on type cartridge.

Air — Dry type replaceable cartridge with condition indicator.



3 in (76 mm) tank filters with condition indicators and locking fill cap.

## Standard Features

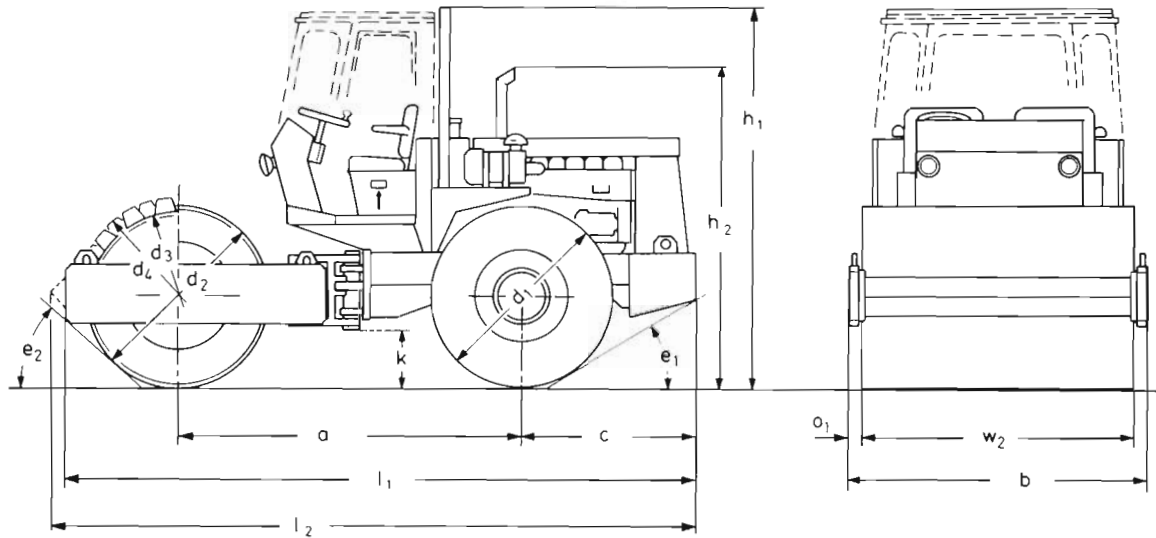
- Maintenance-free articulation joint
- Articulation joint service lock
- Wheel chock with storage mounting
- Horn
- Calcium chloride ballast in tires
- Fuel tank, hydraulic oil tank and ignition equipped with key locks
- Hand rails for mounting and dismounting unit
- Lockable cover for instrument panel
- Oil bath vibrator lubrication



## OPERATING DATA

	1102		1102D		1102PD	
Operating weight	23,593 lbs 10 700 kg		24,475 lbs 11 100 kg		25,354 lbs 11 500 kg	
Drum weight (unsprung)	10,791 lbs 4895 kg		11,684 lbs 5300 kg		12,882 lbs 5693 kg	
Weight distribution front/rear (Static wt. at ground contact point)	11,907 lbs 5400 kg	11,686 lbs 5300 kg	12,789 lbs 5800 kg	11,686 lbs 5300 kg	13,668 lbs 6200 kg	11,686 lbs 5300 kg
Static applied linear drum force (P.L.I.)	141 lbs/in 25.1 kg/cm		152 lbs/in 27 kg/cm		163 lbs/in 29 kg/cm	
Centrifugal force	38,666 lbs 17 539 kN		<b>1 Stage</b> 38,666 lbs 17 539 kN	<b>2 Stage</b> 23,604 lbs 10 707 kN	<b>1 Stage</b> 38,666 lbs 17 539 kN	
Centrifugal force/rolling width (P.L.I.)	460 lbs/in 82 kg/cm		460 lbs/in 82 kg/cm	281 lbs/in 50 kg/cm	460 lbs/in 82 kg/cm	
Frequency	1680 VPM		1680 VPM	2160 VPM	1680 VPM	
Amplitude (nominal)	.06 in 1.6 mm		.06 in 1.6 mm	.02 in 0.6 mm	.06 in 0.6 mm	
Total applied force	50,573 lbs 22 940 kg		51,466 lbs 23 345 kg	36,404 lbs 16 513 kg	52,334 lbs 23 738 kg	
Total applied linear force	602 lbs/in 107 kg/cm		613 lbs/in 109 kg/cm	433 lbs/in 77 kg/cm	623 lbs/in 110 kg/cm	

# Case 1102 Series Specifications



**DIMENSIONS:**

	a	b	c	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	h <sub>1</sub>	h <sub>2</sub>	k	l <sub>1</sub>	l <sub>2</sub>	o <sub>1</sub>	w <sub>2</sub>	e <sub>1</sub>	e <sub>2</sub>
1102 1102D 1102PD	112" (2.84 m)	90.5" (2.3 m)	56.1" (1.42 m)	60" (1.5 m)	59" (1.5 m)	55" (1.4 m)	63" (1.6 m)	118" (3 m)	100" (2.5 m)	21" (533 mm)	205" (5.2 m)	209" (5.3 m)	3.0" (75 mm)	84.6" (2.1 m)	30°	40°



Optional cab is equipped with wipers, interior light, ventilation blower, sun visor, lockable doors, sliding rear window.



Plus 2-speed ground drive with push-button selector for on the go shift.

**Important:** J I Case reserves the right to change design, material and/or specifications without notice and without incurring any obligation relating to such changes.

**Sold and serviced by:**