VIBRATORY SOIL COMPACTOR
1107EX I 1107EX-D I 1107EX-PD

CASE
CONSTRUCTION

RELIABLE & EFFECTIVE COMPACTION

CaseCE.com
EXPERTS FOR THE REAL WORLD
SINCE 1842

1107EX
COMPACTOR

HIGH EFFICIENCY
Tier 3 engine

The 1107EX compactor features the new powerful 4-cylinder, water cooled Tier 3 engine that delivers **22% more torque.** With more than 3 million units operating all over the world, including the CASE 770EX, 770EX Magnum and 851EX Loader Backhoes, the engine assures an excellent reliability.
The turbocharged engine is equipped with an air aftercooler system with internal EGR that increases the density of the intake air, improving efficiency and reducing fuel consumption.
Coupled with the turbo pre-cleaner, the water cooled engine ensures excellent cooling and lowest fuel consumption in its category.

HIGH RELIABILITY
For a durable performance

Well-proven compaction technology: high manufacturing quality standards achieved with an experience spanning **over 2 decades of leadership** in India.
- **4-pins central joints:** a **heavy duty design** solution to make the machine suitable for the most severe applications
- **Turbo pre-cleaner:** mounted on top of the engine compartment: only fresh air is delivered to the engine to assure **perfect combustion**
- **Shock absorbers:** low vibrations transmitted by the drum to the machine components to **increase durability**

FIRST-RATE PRODUCTIVITY
Customized for various applications

1107 EX vibratory soil compactor is available in three configurations to meet every surface compaction need.
- 1107 EX with **single drive and smooth drum** for multi-purpose activities and standard jobs
- 1107 EX-D with **drum drive and increased traction** on slopes and landfills
- 1107 EX-PD with **clamp-on pad foot and drum drive** for compacting more cohesive materials such as clay and silt

The optional drum drive system features an additional high torque drive motor mounted on the front drum frame, resulting in excellent gradeability (36% continuous and 40% intermittent) and optimized traction.

HIGH VERSATILITY
Ready for every mission

2 vibration stages provided by a variable displacement bi-directional axial piston pump with electrical displacement control allow effective compaction on a wide range of soil types.
- Great maneuverability: +/- 15° drum oscillating angle 37° steering angle » short steering radius
- Low steering effort » reduced operator fatigue
- Perfect match of vibration frequency and amplitude with soil for best performance
- Optimal dimensions for easy transportability

1107EX
COMPACTOR

COMFORTABLE AND SAFE OPERATOR STATION
Easy access and excellent visibility

- 90° clockwise rotating seat offers good visibility of rear wheels and front drum in every pass
- Easy and safe access to operator station, thanks to the wide steps and robust handles
- All round hand rail on operator station for enhanced safety
- Easily foldable and removable canopy legs for fast transportation
- Operator station mounted on rubberized shock absorbers to minimize transmitted vibrations
- 2 front lights + 2 head lamps and 2 rear work lamps as standard for excellent visibility

SAFE AND EASY MAINTENANCE
Reduced downtime and operating costs

- Easy access from ground level to battery and all main service items » thanks to the **single piece engine hood**
- Optimized engine layout facilitates the access to the hydraulic components

MAIN REASONS
TO CHOOSE THE 1107EX

FIRST-RATE PRODUCTIVITY

- Perfect match of frequency and amplitude in vibration
- Cross-bar as a load-bearing structure for greater strength and more weight at the front
- The 32 mm thick drum shell provides excellent resistance and uniformity in compaction operations

COMFORTABLE AND SAFE OPERATOR STATION

- Easy and safe cab access
- 90° clockwise rotating seat
- All-around safety hand rail
- Excellent visibility: two-post canopy design, sloping hood

HIGH RELIABILITY

- Standard turbo pre-cleaner
- Heavy-duty drum support frame
- World-class components

The centrifugal force is generated by an internal eccentric shaft and a rotating mass: depending on the direction of rotation, the rotating mass is in phase with the eccentric shaft for a maximum centrifugal force or in the opposite position, for a minimum centrifugal force.

HIGH EFFICIENCY

- Turbocharged engine
- Air aftercooler system
- Higher intake air density
- Improved efficiency
- Reduced fuel consumption

SAFE AND EASY MAINTENANCE

Daily and regular maintenance is easily possible from ground level, thanks to the single-piece tilting hood. Reduced downtime and operating costs result in more productivity and better profitablility.

1107EX
COMPACTOR

SPECIFICATIONS

ENGINE

Make .....FPT
Model.....S 8000 - TIER III
Type .....4 stroke turbocharged aftercooled
Cylinders 4
Bore/stroke .....104 x 115
Displacement (l) 3.9
Fuel injection .....Direct
Fuel .....High speed diesel
Fuel filter .....Spin-on type
Air intake .....Turbocharged with internal EGR
Air filter .....Dry type with dual element
Engine oil filter .....Spin-on type
Cooling .....Liquid
Engine speeds (no load)
- Low: .....950±50
- High: .....2150±25
Max. power (hp) 100
(@rpm) 2200
(ISO3046)
Max. torque (Nm) 458
(@rpm) 1300

VIBRATION SYSTEM

Type...Variable displacement bi-directional axial piston pump with electrical displacement control
Drive to vibration pump .....Mechanical
Engine to pump ratio .....Direct drive 1:1
Displacement (cc/rev) 34.4
Charge pressure (bar) 27
Vibration motor .....Fixed displacement mounted on drum

STEERING

Steering system .....Articulated hydrostatic steering
Steering angle .....37° on either side (74° between stop to stop)
Turning radius (inner radius) (m) 3.65
Drum oscillation angle .....15°
Tyre size .....23.1/18-26 8 PR

ELECTRICAL SYSTEM

Alternator output (A) 65
Battery (V/Ah) .....12 / 130

SERVICE CAPACITIES

Fuel tank (l) 235
Hydraulic tank (l) 70
Engine crank case (l) 9.1
Engine coolant (l) 15

PROPULSION

Type .....Infinitely variable hydrostatic drive with variable displacement pump
Drive pump .....Mechanical
Engine to pump ratio .....Direct drive 1:1
Type ..... Variable displacement bi-directional axial piston pump with manual displacement control
Displacement (cc/rev) 75
Flow @rated engine (lpm) 156
Charge pressure (bar) 27

Drive motors

Type .....High speed low torque driving motor mounted on rear axle input shaft
For drum drive (optional) .....Low speed high torque drive motor mounted on front drum frame along with rear axle motor
Hydraulic oil filter .....Cartridge
Axle .....Heavy duty with integrated parking brake mechanism and outboard planetary
Parking brake .....Spring applied hydraulically released
Engagement .....Operate on /off parking brake switch on instrument panel, engine stop

Machine speed:

- Working speed (km/h) 0-5.5
- Travel speed (km/h) 0-11.5
Final drive .....High torque outboard planetary

Gradeability

Without drum drive (%) .....31 (17°)
With drum drive (%) .....36 (20°)
Intermittent (%) 40

INSTRUMENTATION

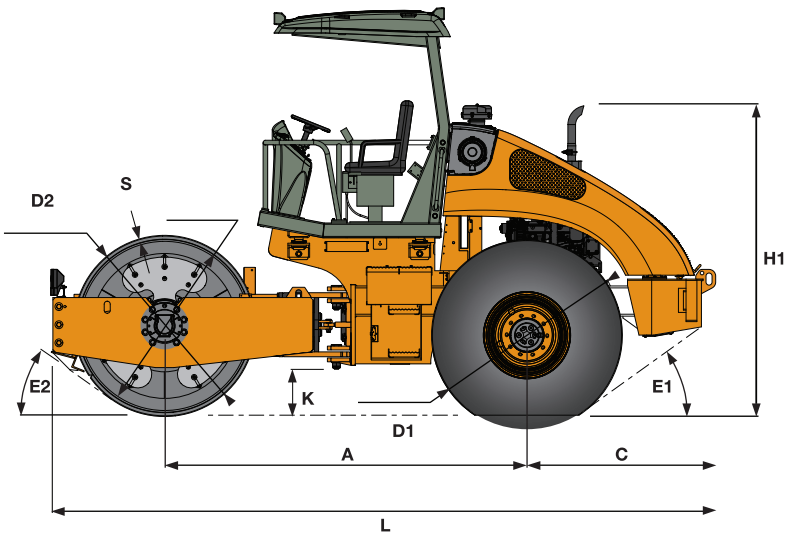
Indicators .....Parking brake, High/Low beam, Battery not charging, Two speed, Pre heater, Turn signal Left/Right, Neutral
Gauges .....Digital hour meter, Water temp, Fuel level, Engine rpm
Warning lights/alarms .....Coolant overheat, Hydraulic oil filter clog, Low lube oil pressure, Air filter clog

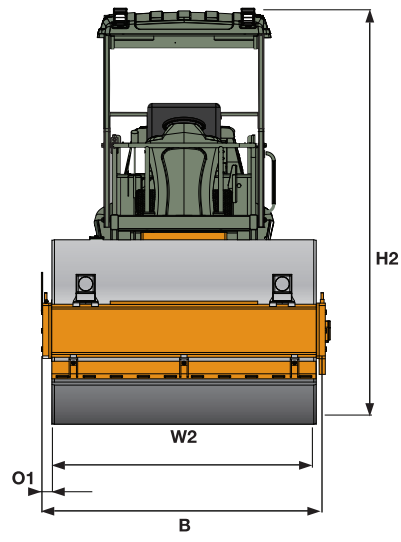
STANDARD EQUIPMENT

Sun roof, Horn, Front and rear working lights, 90° rotating operator seat, Guard rail structure on operator station, Tilting engine hood, Vandal guard, IP67 weather proof rocker switches, Instrument cluster, Glove box for operator, Easy split design of canopy legs for transportation, 32 mm drum shell thickness.
1107 EX - PD: Drum is mounted with 144 Pads, offering a total pad contact area of 413 sq. cm.

SPECIFICATIONS

GENERAL DIMENSIONS





DIMENSIONS

A	***Horizontal distance from drum center to tyre center***	3003 mm
B	***Overall width of the machine***	2324 mm
C	***Rear overhang***	1562 mm
D1	***Diameter of the rear tyres***	1528 mm
D2	***Diameter of the drum***	1500 mm
H1	***Height of silencer from ground level***	2561 mm
H2	***Overall height of the machine (in transport)***	3373 mm
K	***Ground clearance***	382 mm
L	***Overall length of the machine***	5508 mm
01	***Side overhang***	87 mm
S	***Drum shell thickness***	32 mm
W2	***Overall width of the drum***	2150 mm
EI	***Rear departure angle***	36 mm
E2	***Front departure angle***	35 mm

OPERATING DATA

	1107 EX	1107 EX-D	1107 EX-PD
Operating weight	11030 kg	11300 kg	12450 kg
Max. operating weight	12430 kg	12700 kg	13850 kg
Front axle load	6350 kg	6630 kg	7850 kg
Rear axle load	4680 kg	4670 kg	4600 kg
Static linear load front	30 kg/cm	30 kg/cm	(-)

VIBRATION SYSTEM

	1107 EX		1107 EX-D		1107 EX-PD
Vibration Stage	1	2	1	2	1
Frequency	31 Hz	34 Hz	31 Hz	34 Hz	30 Hz
Amplitude	1.8 mm	0.8 mm	1.8 mm	0.8 mm	1.3 mm
Centrifugal force	27965 kg	16186 kg	27965 kg	16186kg	25830 kg
Max. applied force	34315 kg	22536 kg	34595 kg	22816 kg	33680 kg

OPTIONAL EQUIPMENT

- Compaction Meter

CaseCE.com

EXPERTS FOR THE REAL WORLD
SINCE 1842

CASE CONSTRUCTION

Corporate Identity Number: U29240DL1998PTC344616
CASE NEW HOLLAND CONSTRUCTION EQUIPMENT (INDIA) PRIVATE LIMITED
Level-4, Rectangle-1, D-4
District Center, Commercial Complex
Saket, New Delhi – 110017
Contact No.: 011-66544151 | Email:caseindia@cnhind.com

NOTE: Standard and optional fittings can vary according to the demands and specific regulations of each country. The illustrations may include optional rather than standard fittings - consult your CASE dealer. Furthermore, CNH Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.
Conforms to directive 2006/42/EC
Disclaimer: 2.5% variation on parameters may occur and is acceptable by the industry norms

CASE Customer Assistance
1800 4199 770

CASECEINDIA