

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

CASE
CONSTRUCTION



**RELIABLE AND EFFECTIVE
COMPACTION**

CaseCE.com
EXPERTS FOR THE REAL WORLD
SINCE 1842

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1107EX COMPACTOR



HIGH EFFICIENCY

Tier 3 engine

The 1107 EX 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 allows effective compaction on a wide range of soil types.

- Great manoeuvrability: +/- 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



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 hydraulics pumps

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



HIGH RELIABILITY

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



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



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 profitability.

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 or 12 PR tubeless

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 out board 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 out board 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

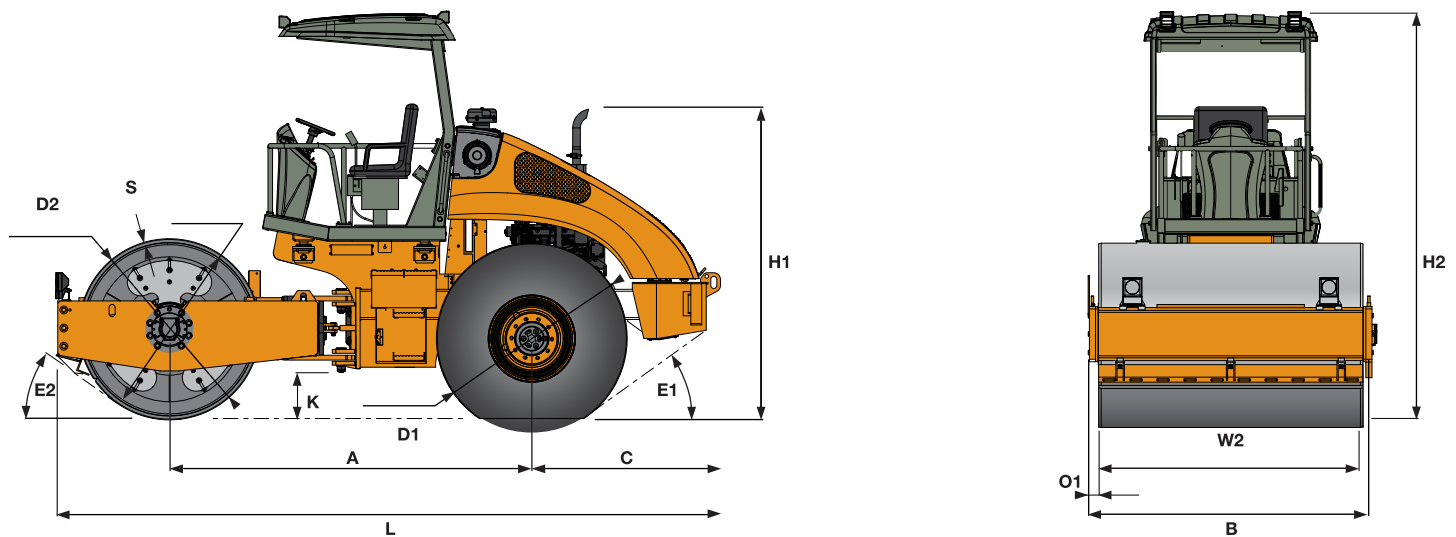
STANDARD EQUIPMENT

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	mm	3003
B	Overall width of the machine	mm	2324
C	Rear overhang	mm	1562
D1	Diameter of the rear tyres	mm	1528
D2	Diameter of the drum	mm	1500
H1	Height of silencer from ground level	mm	2561
H2	Overall height of the machine (in transport)	mm	3373
K	Ground clearance	mm	382
L	Overall length of the machine	mm	5508
O1	Side overhang	mm	87
S	Drum shell thickness	mm	32
W2	Overall width of the drum	mm	2150
E1	Rear departure angle	mm	36
E2	Front departure angle	mm	35

OPERATING DATA

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

VIBRATION SYSTEM

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

OPTIONAL EQUIPMENTS

- Eagle Eye Solution



- Compaction Meter



**CASE CONSTRUCTION EQUIPMENT
CONTACT INFORMATION**

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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 may occur and is acceptable by the industry norms

