

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

CASE
CONSTRUCTION



**RELIABLE AND EFFECTIVE
COMPACTION**

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**EXPERTS FOR THE REAL WORLD
SINCE 1842**



EXPERTS FOR THE REAL WORLD SINCE 1842

- 1842** Case is founded.
- 1869** The first Case portable steam engine – road construction is born!
- 1958** The first Case 4-WD wheel loader, the W9, is introduced.
- 1969** Case begins skid steer loader production.
- 1985** Case starts production of its first compactor, branded Case-Vibromax.
- 1993** Case signs supply agreement with Ammann/STA for the distribution of Case branded compactors in the USA.

- 1998** Case starts joint venture with L&T to produce and distribute 3 models of Compactors in India based on the VIBROMAX technology.
- 2000** Case signs a distribution agreement with Stavstroj, the largest manufacturer of compacting technology in Central and Eastern Europe.
- 2011** Case acquires 50% of its Indian Joint Venture with L&T and the company is renamed Case New Holland Construction Equipment India.
- 2013** Case launches the upgraded DX-Series soil compactor

1107 SERIES COMPACTORS

1107 SERIES DRUM DRIVE AND VIBRATORY SYSTEM



HIGH EFFICIENCY

Tier 3 engine

The 1107 DX compactor features a powerful 4-cylinder water cooled Tier 3 engine that delivers up to 105 hp.

The turbocharged engine is equipped with an air aftercooler system 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 high fuel efficiency.



HIGH RELIABILITY

The Turbo pre-cleaner supplies fresh and clean air to the engine intake

1. Contaminated air enters from bottom of the pre-cleaner.
2. It flows through specially designed, static angled vanes causing the air to spin.
3. As air spins, a centrifugal force is created and it separates dust and contaminants from the air stream.
4. The swirling air drives a high velocity rotor that acts as a sweeper.
5. The rotor evacuates the dirt and contaminants from the discharge port at the side of the pre-cleaner.
6. Only purified air flows into the filter element!

Turbo Pre-Cleaner



FIRST-RATE PRODUCTIVITY

Drum drive

The 1107 DX vibratory soil compactor is available in three configurations to meet every surface compaction need:

- The 1107 DX with single drive and smooth drum for multi-purpose activities and standard jobs
- The 1107 DX-D with drum drive and increased traction on slopes and landfills
- The 1107 DX-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 and optimized traction.

The compactor can be equipped with either a smooth or pad foot drum to meet every compaction need in different terrains.



HIGH VERSATILITY

2 vibration stages

2 vibration stages provided by a variable displacement bi-directional axial piston pump with electrical displacement control allow effective compaction of a wide range of soil types.

- Perfect match of frequency and amplitude vibration to the soil, in order to get the best performance
- Low vibrations from the drum: vibrations are absorbed and not transmitted to the operator deck, increasing operator comfort and component durability
- Low steering effort contributes to reducing operator fatigue



MAIN REASONS TO CHOOSE THE 1107 SERIES



COMFORTABLE AND SAFE OPERATOR STATION

- Easy and safe cab access
- 90° clockwise rotating seat
- All-around sealed instrument panel
- Excellent visibility: two-post canopy design, sloping hood.



FIRST-RATE PRODUCTIVITY

- Perfect match of frequency and amplitude in vibration
- Cross-bar as a load-bearing structure for greater strength and higher weight at the front.



HIGH RELIABILITY

- Standard turbo pre-cleaner
- The Heavy-duty drum support frame and the thick (32mm) drum shell provide excellent resistance and uniformity in compaction operations
- World-class components for maximum reliability



HIGH EFFICIENCY

- The turbocharged engine is equipped with an air aftercooler system that increases the density of the intake air, improving efficiency and reducing fuel consumption.



SAFE AND EASY MAINTENANCE

- Daily and regular maintenance is possible from ground level thanks to the tilting hood. Reduced downtime and operating costs, resulting in more productivity and better profitability



COMFORTABLE AND SAFE OPERATOR STATION

Easy access and excellent visibility

- Easy and safe cab access thanks to the wide steps and robust handles
- 90° clockwise rotating seat to keep good visibility to rear wheel and front drum in every pass.
- All-around sealed instrument panel
- Easily removable canopy legs for fast transportation
- Operator station mounted on rubber shock absorbers to minimize transmitted vibrations
- 4 front lights + 2 head-lamps and 2 rear work-lamps



SAFE AND EASY MAINTENANCE

Reduced downtime and operating costs

- Easy access from ground level to battery and all main service items, thanks to the one piece engine hood
- Easy service of the hydrostatic and hydraulic pumps, as they are mounted directly on the engine
- High manufacturing quality of all the components means extended service intervals



1107 SERIES COMPACTORS

SPECIFICATIONS

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ENGINE

Make	Kirloskar oil engines limited
Model	4 R 1040 TA - TIER III
Type	4 stroke turbocharged aftercooled
Cylinders	4
Bore/stroke	105 X 120
Displacement (l)	4.1
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:	900±50
- High:	2200
Max. power (hp) (@rpm)	105 / 2200
(ISO3046)	
Max. torque (Nm) (@rpm)	375 / 1400

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)	9.5
Engine coolant (l)	18

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°)
Intermittant (%)	40

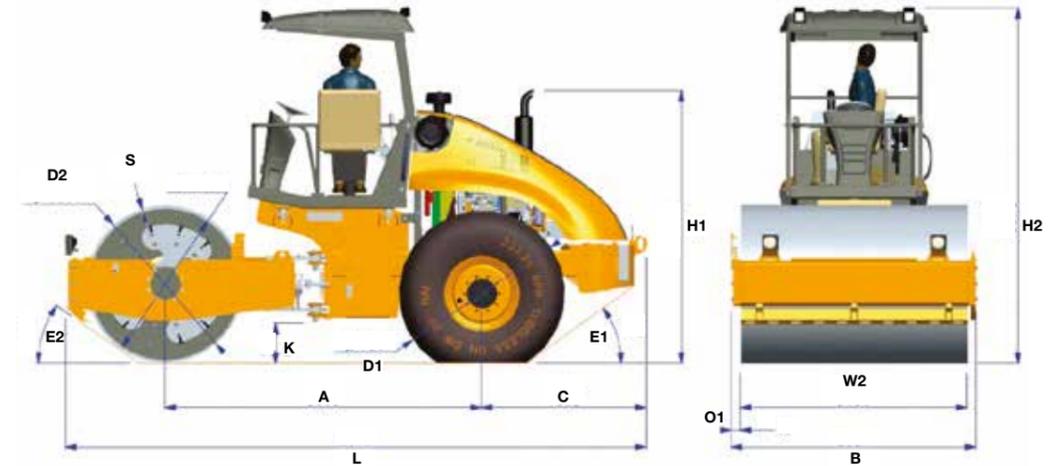
INSTRUMENTATION

Indicators	Neutral, 2-speed, battery charging, lube oil pressure, parking brake
Gauges	Digital hour meter, water temp, fuel level, battery voltage, 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's platform, 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.

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	2590
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 DX	1107 DX-D	1107 DX-PD (Drum drive required)
Operating Weight w/o Operator	kg	11300	11350	12300 (segmental kit)
Front Axle Load	kg	6450	6500	7700
Rear Axle Load	kg	4850	4850	4600
Static Linear Load Front	kg/cm	30	30	(-)

VIBRATION SYSTEM

Vibration Stage		1107 DX		1107 DX-D		1107 DX-PD (Drum drive required)	
		1	2	1	2	1	2
Frequency	Hz	31	34	31	34	30	34
Amplitude	mm	1.8	0.8	1.8	0.8	1.8	0.8
Centrifugal Force	kg	27965	16186	27965	16186	26190	14346
Max. Applied Force	kg	34415	22636	34415	22636	33890	23886

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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

