

**VIBRATORY SOIL COMPACTOR  
1110EX-D | 1110EX-PD**

**CASE**  
CONSTRUCTION



**RELIABLE & EFFECTIVE  
COMPACTION**

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**SINCE 1842**

# 1110EX-D COMPACTOR



## **HIGH EFFICIENCY** **Tier 3 engine**

The 1110EX-D 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 after-cooler 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**

1110 EX vibratory soil compactor is available in two configurations to meet every surface compaction need.

- 1110 EX-D with **drum drive and increased traction** on slopes and landfills
- 1110 EX-PD with **clamp-on pad foot and drum drive** for compacting more cohesive materials such as clay and silt

The 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



# 1110EX-D 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
- Closed ROPS/FOPS HVAC Cabin for excellent operator comfort and safety
- 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 1110EX-D



## 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
- Closed ROPS/FOPS HVAC Cabin for excellent operator comfort and safety





## **HIGH EFFICIENCY**

- Turbocharged engine
- Air after-cooler 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.

# 1110EX-D 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) .....	110
(@rpm) .....	2300
(ISO3046)	
Max. torque (Nm) .....	430
(@rpm) .....	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

### 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 .....	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

With drum drive (%) .....	36 (20°)
Intermittent (%) .....	40

### INSTRUMENTATION

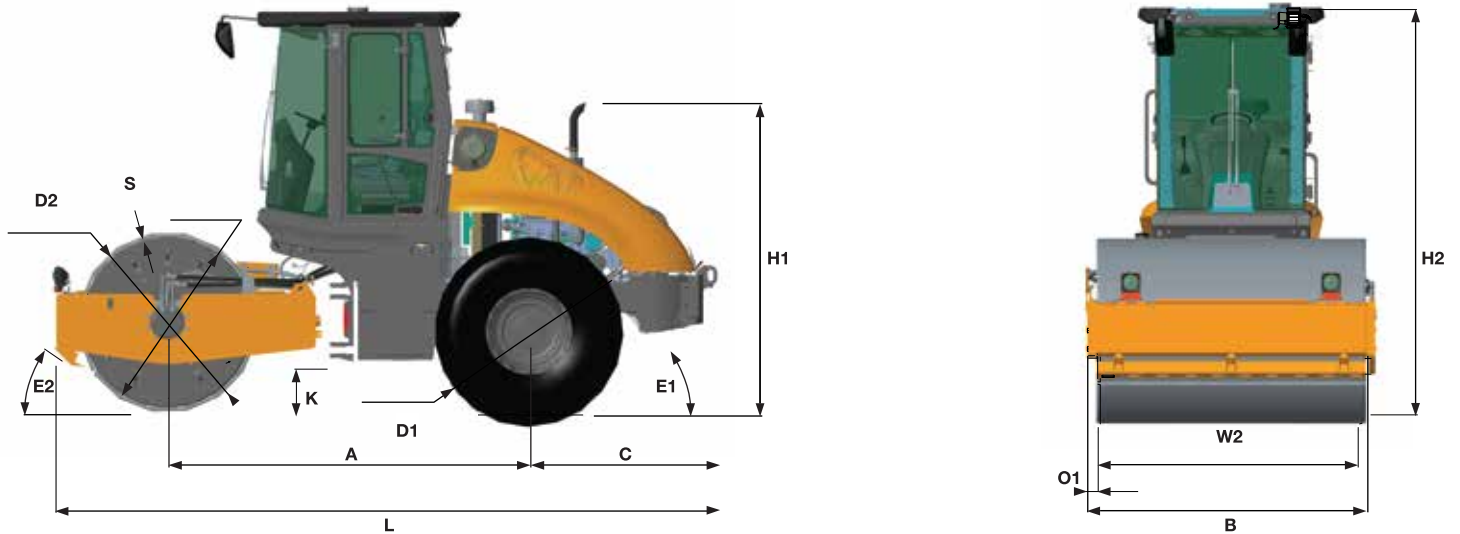
Indicators .....	Parking brake, High/Low beam, Battery not charging, Two speed, Pre heater, Turn signal Left/Right, Neutral
Gauges .....	Digital hour meter, Water temp, Fuel level, Engine rpm
Warning lights/alarms .....	Coolant overheat, Hydraulic oil filter clog, Low lube oil pressure, Air filter clog

### STANDARD EQUIPMENT

Sun roof, Horn, Front and rear working lights, 90° rotating operator seat, HVAC Cabin, 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.  
1110 EX - PD: Drum is mounted with 144 Pads, offering a total pad contact area of 413 sq. cm.

# SPECIFICATIONS

## GENERAL DIMENSIONS



## DIMENSIONS

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

## OPERATING DATA

	<b>1110 EX-D</b>	<b>1110 EX-PD</b>
<b>Operating weight</b>	11720 kg	13150 kg
<b>Max. operating weight</b>	13120 kg	14550 kg
<b>Front axle load</b>	6790 kg	8220 kg
<b>Rear axle load</b>	4930 kg	4930 kg
<b>Static linear load front</b>	31 kg/cm	(-)

## VIBRATION SYSTEM

	<b>1110 EX-D</b>		<b>1110 EX-PD</b>
<b>Vibration Stage</b>	1	2	1
<b>Frequency</b>	31 Hz	34 Hz	31 Hz
<b>Amplitude</b>	1.8 mm	0.8 mm	1.3 mm
<b>Centrifugal force</b>	27965 kg	16186 kg	25830 kg
<b>Max. applied force</b>	34755 kg	22976 kg	34050 kg

## OPTIONAL EQUIPMENT

- Compaction Meter

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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 on parameters may occur and is acceptable by the industry norms**

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