



**CASE**  
CONSTRUCTION

# VIBRATORY SOIL COMPACTOR



1110EX-D | 1110EX-PD

# EX-SERIES COMPACTOR



- 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.

# HERITAGE

## A TRADITION OF INDUSTRY FIRSTS



- 2000** CASE signs a distribution agreement with Stavostroj, 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.
- 2016** Renewed EX-Series soil compactor features a new FPT engine.
- 2021** CASE introduces compactors FX Series with the new Tier IV engine.
- 2022** CASE introduces new compactor with the full hood and 110hp FPT engine.

# EX-SERIES COMPACTOR



## HIGH EFFICIENCY Tier 3 engine

The new compactors feature 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 loader backhoe range, the engine assures 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.



FPT S8000: proven technology!



## HIGH RELIABILITY For a durable performance

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

Turbo  
Pre-Cleaner



## DRUM DRIVE AND VIBRATORY SYSTEM



### FIRST-RATE PRODUCTIVITY

#### Drum drive

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

- The 1110EX-D with drum drive and increased traction on slopes and landfills
- The 1110EX-PD with drum drive and clamp-on pad foot 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.



### 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 of a wide range of soil types.

Great manoeuvrability:

- +/- 15° drum oscillating angle 37° steering angle → short steering radius
- Low steering effort contributes to reducing operator fatigue
- Perfect match of frequency and amplitude vibration to the soil, in order to get the best performance
- Easy transport features thanks to the optimal dimensions



# MAIN REASONS TO CHOOSE THE 1110EX



## 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 safe 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**

The Tier III 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 one-piece tilting hood. Reduced downtime and operating costs result in more productivity and better profitability.

# EX-SERIES COMPACTOR



## COMFORTABLE AND SAFE OPERATOR STATION

Easy access and excellent visibility

- 90° clockwise rotating seat to ensure good visibility of rear wheel and front drum in every pass
- Easy and safe cab access thanks to the wide steps and robust handles
- All-around safe hand rail
- Easily foldable and removable canopy legs for fast transportation
- Operator station mounted on rubber shock absorbers to minimize transmitted vibrations
- 2 front lights + 2 head-lamps and 2 rear work-lamps as standard - 2 optional side working lights
- Closed cabin with A/C available as an option



## 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
- Optimized engine layout facilitates the access to the hydrostatic and hydraulic pumps



# EX-SERIES OPERATOR STATION AND MAINTENANCE



# EX-SERIES COMPACTOR

## ENGINE

Make \_\_\_\_\_ FPT  
 Model \_\_\_\_\_ S8000 - TIER III  
 Type \_\_\_\_\_ 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 \_\_\_\_\_ Replaceable dry type with dual element  
 & coupled with turbo pre-cleaner  
 Engine oil filter \_\_\_\_\_ Spin-on type  
 Cooling \_\_\_\_\_ Liquid  
 Engine speeds (no load)  
 - Low: \_\_\_\_\_ 950±50 rpm  
 - High: \_\_\_\_\_ 2150±25 rpm  
 Horsepower @ 2300 rpm  
 Gross power (ISO 14396) \_\_\_\_\_ 82 kW  
 Imperial \_\_\_\_\_ 110 hp  
 Metric \_\_\_\_\_ 112 hp  
 Max. torque (ISO14396) \_\_\_\_\_ 430Nm@1400

## VIBRATION SYSTEM

Type \_\_\_\_\_ Variable displacement bi-directional axial piston  
 pump with manual displacement control  
 Drive to vibration pump \_\_\_\_\_ Mechanical  
 Engine to pump ratio \_\_\_\_\_ Direct Drive 1:1  
 Vibration motor \_\_\_\_\_ Fixed displacement mounted on drum

## STEERING

Steering system \_\_\_\_\_ Hydraulic assisted articulated  
 Steering angle \_\_\_\_\_ 37° on either side  
 (74° between stop to stop)  
 Turning radius (inner radius) \_\_\_\_\_ 3,42 m  
 Drum oscillation angle \_\_\_\_\_ 15°  
 Tyre size \_\_\_\_\_ 23.1/26

## ELECTRICAL SYSTEM

Alternator output (with/without cab) \_\_\_\_\_ 105 A/65 A  
 Battery \_\_\_\_\_ exide, 12V/ 130Ah

## SERVICE CAPACITIES

Fuel tank \_\_\_\_\_ 235 l  
 Hydraulic tank \_\_\_\_\_ 70 l  
 Engine crank case \_\_\_\_\_ 9.1 l  
 Engine coolant \_\_\_\_\_ 15 l

## 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) \_\_\_\_\_ 78  
 Flow @2200 RPM \_\_\_\_\_ 171  
 Charge pressure (bar) \_\_\_\_\_ 22@1800rpm

### Drive motors

Type \_\_\_\_\_ High speed low torque, bentaxis,  
 axial piston dual displacement motor connected to rear axle  
 Drum drive \_\_\_\_\_ Radial piston motor, fixed displacement mounted  
 on drum  
 Hydraulic oil filter \_\_\_\_\_ Cartridge  
 Axle \_\_\_\_\_ Heavy duty with integrated parking brake  
 mechanism and integrated differential unit along  
 with out board planetary geared wheel hub  
 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

### Gradeability

With drum drive (%) \_\_\_\_\_ 36  
 Intermittent (%) \_\_\_\_\_ 40

## INSTRUMENTATION

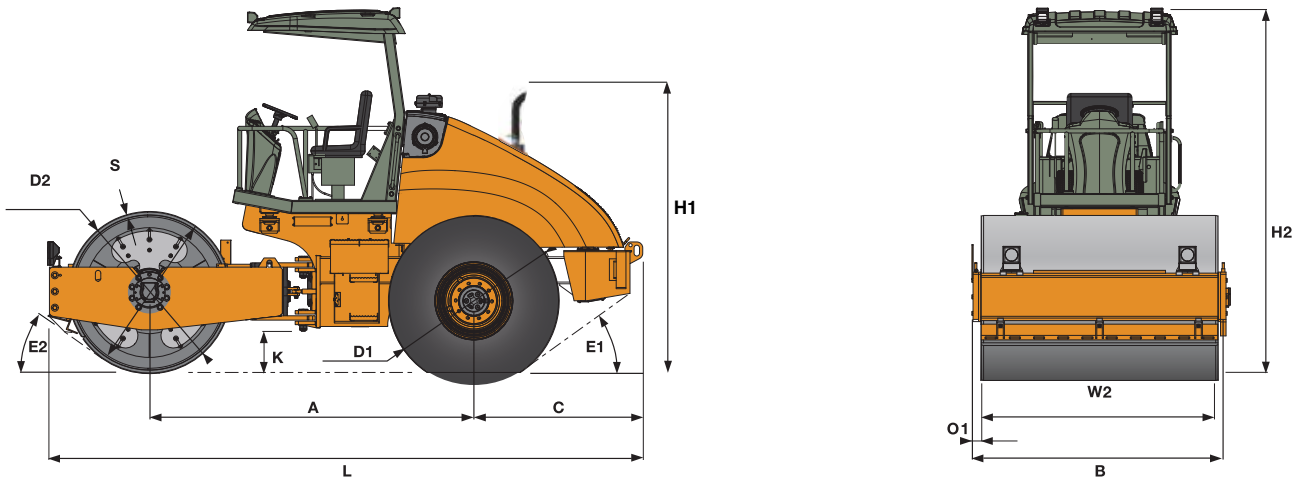
Gauges (Backlit with illuminated pointers)

- Engine Coolant Temperature
- Fuel level
- Engine RPM

Indicators (Buzzer & Visual)

COMPONENTS	ALARM TYPE	
	BUZZER	VISUAL
Battery not charging	NO	YES
Turn Signal Left & Right	YES	YES
Two Speed travel Mode	NO	YES
Cold Start/Pre-heater	YES	YES
Neutral	NO	YES
Position Lamp	NO	YES
High Beam	NO	YES
Low Beam	NO	YES
Parking Brake Engagement	NO	YES
Engine Coolant Overheat	YES	YES
Low Lube oil Pressure	YES	YES
Hydraulic oil Filter Clog	YES	YES
Air Filter Clog	YES	YES

# SPECIFICATIONS



## GENERAL DIMENSIONS

<b>A</b>	Wheelbase	mm	3003
<b>B</b>	Overall width of the machine	mm	2324
<b>C</b>	Rear overhang	mm	1560
<b>D1</b>	Diameter of the rear tyres	mm	1560
<b>D2</b>	Diameter of the drum	mm	1500
<b>H1</b>	Height of silencer from ground level	mm	2561
<b>H2</b>	Overall height of the machine (with/without cab)	mm	3389/3373
<b>K</b>	Ground clearance	mm	382
<b>L</b>	Overall length of the machine	mm	5508
<b>O1</b>	Side overhang	mm	87
<b>S</b>	Drum shell thickness	mm	32
<b>W2</b>	Overall width of the drum	mm	2150
<b>E1</b>	Rear departure angle	mm	36
<b>E2</b>	Front departure angle	mm	32

Dimension may vary within  $\pm 5\%$

## OPERATING DATA

		1110EX-D	1110EX-PD
Operating weight with operator	Kg	11310	12466
Front axle load	Kg	6560	7716
Rear axle load	Kg	4750	4750
Static linear load front	Kg/CM	31	-

The weights are considering 32 mm Thk drum and may vary within  $\pm 5\%$

## VIBRATION SYSTEM

		1110EX-D		1110EX-PD
Vibration Stage		1 <sup>st</sup> Vib. Stage	2 <sup>st</sup> Vib. Stage	1 <sup>st</sup> Vib. Stage
Frequency*	Hz	31	34	31
Amplitude	mm	1.8	0.8	1.3
Centrifugal force	Kg	26815	14826	26815
Max. applied force	Kg	33375	21386	34531

\* Vibration Frequency is set on the Machine after lifting it off ground. Hence Actual Frequency will vary when measured on the ground.



# BUILDING A STRONG CASE.

Since 1842, at CASE Construction Equipment we have lived by an unwavering commitment to build practical, intuitive solutions that deliver both efficiency and productivity.

We continually strive to make it easier for our customers to implement emerging technologies and new compliance mandates.

Today, our global scale combined with our local expertise enables us to keep customers' real-world challenges at the center of our product development.

The vast CASE dealers' network is always ready to support and protect your investment and exceed your expectations, while also providing you with the ultimate ownership experience.

Our goal is to build both stronger machines—and stronger communities. At the end of the day, we do what's right for our customers and our communities so that they can count on CASE.

[CASECE.com](http://CASECE.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

