





# **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



### **EX-SERIES**

### 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 25 mm thick drum shell provides excellent resistance and uniformity in compaction operations



### COMFORTABLE AND SAFE OPERATOR STATION

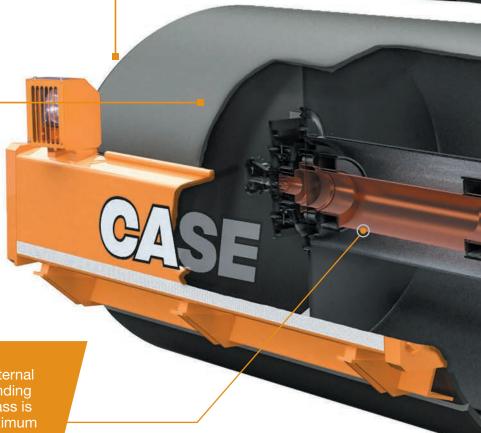
- Easy and safe cab access
- 90° clockwise rotating seat
- All-around safe hand rail
- Excellent visibility: two-post canopy design, sloping hood





#### **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.





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.





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#### **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
Туре	turbocharged & aftercooled
Cylinders	4
Bore/stroke	104 x 115
Displacement (I)	3.9
Fuel injection	
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
Max. power (ISO14396)	110 hp@2300 rpm
Max. torque (ISO14396)	430Nm@1400

#### **VIBRATION SYSTEM**

Type Vari	iable displacement bi-directional axial piston
	pump with manual displacement control
Drive to vibration pump	Mechanical 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)	5.6 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 I
Hydraulic tank	70 I
Engine crank case	9.1 I
Engine coolant	15 I

#### **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,
axiai piston o	dual displacement motor connected to rear axle
Drum drive Ka	adial piston motor, fixed displacement mounted on drum
Hydraulia ail filtar	011 011 0111
Avia	Cartridge Heavy duty with integrated parking brake
MAIG	echanism and integrated differential unit along
111	with out board planetary geared wheel hub
Parking brake	Spring applied hydraulically released
Engagement	Operate on /off parking brake switch
gugo	on instrument panel, engine stop
	1 / 3 1
Machine speed:	
<ul> <li>Working speed (km/</li> </ul>	h) 0-5.5
- Travel speed (km/h)	0-11.5
Cradochilitu	
Gradeability	20
	36
iiitoiiiittaiit (70)	40

#### **INSTRUMENTATION**

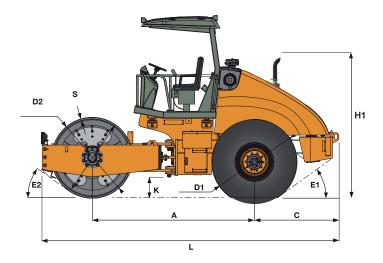
Gauges (Backlit with illuminated pointers)

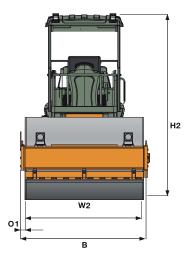
- Engine Coolant Temperature
- Fuel level
- Engine RPM

Indicators (Buzzer & Visual)

COMPONENTS	ALARI	ALARM TYPE		
COMPONENTS	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 Cloq	YES	YES		

### **SPECIFICATIONS**





GEN	IERAL DIMENSIONS		
Α	Wheelbase	mm	3003
В	Overall width of the machine	mm	2324
С	Rear overhang	mm	1560
D1	Diameter of the rear tyres	mm	1560
D2	Diameter of the drum	mm	1500
H1	Height of silencer from ground level	mm	2561
H2	Overall height of the machine (with/without cab)	mm	3389/3373
K	Ground clearance	mm	382
L	Overall length of the machine	mm	5508
01	Side overhang	mm	87
s	Drum shell thickness	mm	25
W2	Overall width of the drum	mm	2150
E1	Rear Departure angle	mm	36
E2	Front Departure angle	mm	32

Dimension may vary within ±2.5%

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 25 Thk drum and may vary within  $\pm 2.5\%$ 

VIBRATION SYSTEM		1110EX-D 1110EX-PD		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	26.815	14.826	26.815
Max. applied force	Kg	33.375	21.386	34.531

<sup>\*</sup> 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

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 you
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

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