



**CASE**  
CONSTRUCTION

# SOIL COMPACTOR

## 1107EX-PD



# COMPACTION

## RELIABLE AND EFFECTIVE



### HIGH EFFICIENCY

#### TIER 3 ENGINE

The compactor 1107EX is equipped with the 4-cylinders engine CNH/FPT S8000 Tier 3, which provides more torque. With more than 3-millions of units in operation worldwide, the engine ensures excellent reliability.

The engine fits an air aftercooler system with internal EGR that increases the intake air density improving efficiency and reducing fuel consumption.

### HIGH RELIABILITY

#### FOR A LONG-LASTING PERFORMANCE

Proven compaction technology: world-class components and experience from over two decades of leadership in India.

- + 4-pins center linkages: a resistant design solution for becoming the machine proper for the more severe applications
- + Turbo pre-filter: fitted in the engine compartment top part -only air is provided to

the engine to ensure an optimal combustion

- + Shock absorbers: low vibration level transmitted from the roller to the components of the machine for increasing the durability

### HIGH VERSATILITY

#### READY FOR EACH CHALLENGE

There are two available vibration stages and the padfoot kit, which allow effective compaction in a wide-variety of soil types.

- + Great maneuverability: roller oscillating angle of +/- 15° and steering turning angle +/- 37°, resulting in a short turning radius
- + Low steering effort, providing more ergonomic to the operator
- + Optimal combination of vibration frequency and amplitude with the soil for better performance



## FIRST-CLASS PRODUCTIVITY CUSTOMIZED FOR SEVERAL APPLICATIONS

The soil compactor 1107EX-PD is available with the Padfoot Kit and dual-drive drum to meet all needs for soil compaction.

- + Padfoot Kit: Optimal to compact the more cohesive soils, as clay;
- + Smooth drum: Optimal to compact more granulate soils

The dual-drive drum system has a high-torque hydraulic motor assembled in the structure of the front drum, which results in excellent climbing ability (36% continuous), optimized traction and finishings.

## QUICK AND SAFE MAINTENANCE REDUCTION OF RUNDOWN TIME AND OPERATIONAL COSTS

- + Easy access from the soil to the battery and all main service items thanks to the one-part engine hood
- + The optimized layout of the engine eases the access to the hydraulic pumps

## AMBIENT FOR THE OPERATOR COMFORTABLE AND SAFE ERGONOMICS, AND EXCELLENT VISIBILITY

- + Cabin ROPS/FOPS with air-conditioning
- + Ambient for the operator assembled on rubbered shock absorbers to minimize the vibrations transmitted
- + Seat with rotation of 90°clockwise, favoring the visibility for the rear wheels and the front roller in all passages
- + Safe access thanks to the robust steps and handhold
- + Lighting package: 2 front work lights, 2 top lights, and 2 rear lights



# MAIN REASONS TO CHOOSE THE 1107EX

## FIRST-CATEGORY PRODUCTIVITY

- + Optimal combination of vibration frequency and amplitude
- + Transverse bar with a structure of load support for higher resistance and higher weight on the front side
- + The 32 mm-thickness roller provides excellent resistance and uniformity in the compaction operations
- + Padfoot Kit: versatility while performing the compaction both on granulated and clay terrains

## COMFORTABLE AND SAFE OPERATION POST

- + Safe access to the cabin
- + Seat with rotation of 90°clockwise
- + Safety hold-hand in the whole machine
- + Excellent visibility

The centrifugal force is generated by an internal-eccentric axle and a rotary mass: depending on the rotation direction, the rotary mass is in phase with the eccentric axle for a maximum centrifugal force or at opposite position for a minimum centrifugal force, resulting in two ways of vibration.

## RELIABILITY

- + Turbo pre-filter
- + Supporting structure of the drum HD
- + Worldwide-class components

## HIGH EFFICIENCY

- + Turbocharged engine
- + EGR system
- + Optimized efficiency
- + Low fuel consumption

## EASY AND SAFE MAINTENANCE

Daily maintenance is easily carried out due to the one-piece tilting hood. The reduction of rundown time and operational costs result in higher productivity.



# SPECIFICATIONS

## 1107EX

### ENGINE

Model	S8000
Type	Diesel, turbocharged with EGR
Cylinders	4
Diameter/stroke	104 x 115
Displacement	3.9
Fuel injection	Direct
Engine speed (no load)	Low: 950±50 High: 2150±25
Max. power (hp)	110 (hp) 2200 (@rpm)
Max. torque	430 (Nm) 1300 (@rpm)

### VIBRATION SYSTEM

Hydraulic-circuit type	Closed
Pump type	Axial-piston pump Two-way
Engine Type	Axial-piston motor
Vibration	Eccentric axle
Smooth drum	
Mode 1:	
Frequency	2040 RPM (34 Hz)
Amplitude	0.8 mm (.032 in)
Centrifugal force	145 kN (32686 lbs)
Mode 2:	
Frequency	1860 RPM (31 Hz)
Amplitude	1.8 mm (.071 in)
Centrifugal force	263 kN (59117 lbs)
Padfoot	
Frequency	2040 RPM (34 Hz)
Amplitude	0.6 mm (.024 in)
Centrifugal force	221 kN (49750 lbs)

### STEERING

Steering system	Hydrostatic steering
Steering-turning angle	37°
Steering-internal turning radius	3,65 m
Roller oscillating angle	15°
Tires	23.1-26 8PR

### ELECTRICAL SYSTEM

Alternator (A)	105
Battery (V/Ah)	12 / 130

### SERVICE CAPACITIES

Fuel tank (l)	235
Hydraulic tank (l)	70
Engine oil (l)	8,4
Coolant (l)	15

### TRANSMISSION

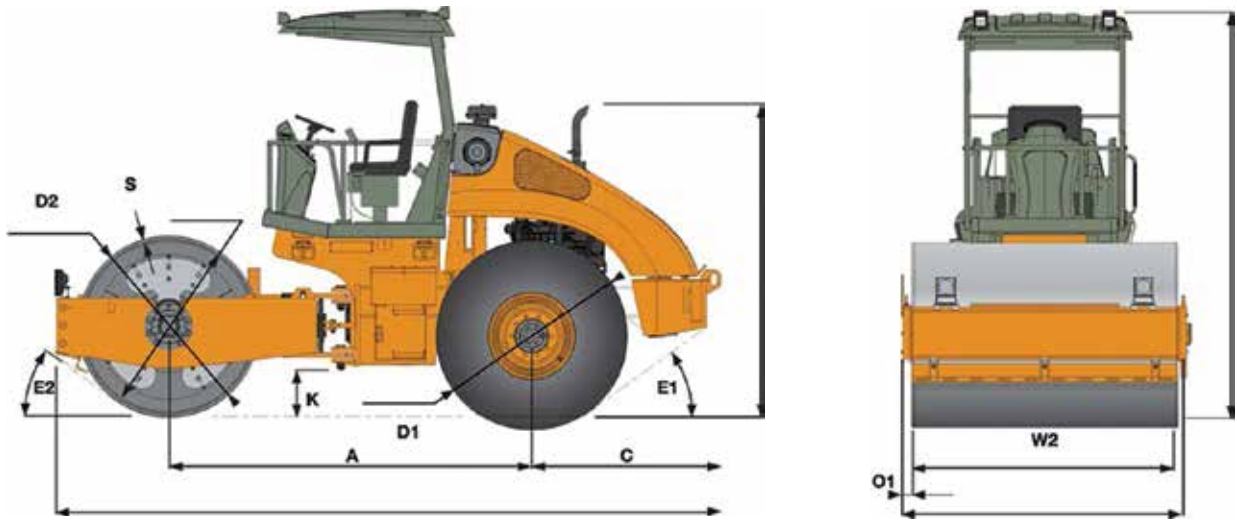
Hydraulic-circuit type	Closed
Axial-piston pump of variable displacement	
Load pressure	22 bar (320 psi)
Main relief valve	420 bar (6 090 psi)
rum actuation motor	Radial-piston motor, offixed displacement
Maximum operation speed	5,5 km/h (3.4 mph)
Maximum speed of displacement	11,5 km/h (7.15 mph)
Climbing ability	36%

### INSTRUMENTATION

Indicators	Parking brake, High and low beam, Battery, Speed, Pre-heater, Turn signal light
Instruments	Digital hourmeter, Water temperature, Fuel level, Engine speed
Warning lights/ alarms	Coolant overheating, Hydraulic oil filter clogging, Oil low pressure, Air filter clogging

### STANDARD EQUIPMENTS

Protections ROPS, Horn, Front and rear work lights, Operator rotary seat (90°), Cabin with air-conditioning, tilting hood, Instruments cluster Pre-setting for radio, Battery main switch, Padfoot kit, Cleaning bar



### DIMENSIONS

A	Wheelbase	3.003 mm (9,85 pés)
B	Machine total width	2.324 mm (7,62 pés)
C	Distance from the axle to the rear end	1.560 mm (5,12 pés)
D1	Rear tire diameter	1.560 mm (5,12 pés)
D2	Cylinder diameter	1.500 mm (4,92 pés)
H1	Silencer hight from the soil level	2.561 mm (8,40 pés)
H2	Machine total height (in transportation)	3.389 mm (11,12 pés)
K	Distance to the soil	382 mm (1,25 pés)
L	Machine total length	5.508 mm (18,07 pés)
O1	Side overhang	87 mm (3,4 pol)
S	Cylinder thickness	32 mm (1,25 pol)
W2	Drum total width	2.150 mm (7,05 pi pés)
E1	Rear departure angle	36°
E2	Front departure angle	32°

### OPERATIONAL DATA

Operating weight	
Smooth drum	11 380 kg (25 089 lbs)
Padfoot	12 560 kg (27 690 lbs)
Load of front axle	
Smooth drum	6 560 kg (14 462 lbs)
Padfoot	7 740 kg (17 064 lbs)
Load of rear axle	
Smooth drum	4 820 kg (10 626 lbs)
Padfoot	4 820 kg (10 626 lbs)
Linear static load	
Smooth drum	31 kg/cm (173,6 lb/in)
Ballast (each tire)	360 kg (794 lbs)

### OPTIONAL EQUIPMENT







Cold weather package, Cab Fan, Rotating beacon light





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