



# VIBRATORY SOIL COMPACTOR

V110D | V110PD



A Brand of CNH Industrial



# V110 VIBRATORY SOIL COMPACTOR

## HIGH POWER AND EFFICIENCY RELIABLE AND EASY TO MAINTAIN

Widely tested compaction technology: high manufacturing quality standards achieved with worldwide experience.

- 4-pin center joints: low maintenance for high performance and reliability
- Pre-filter turbo: mounted on top of the engine compartment, it ensures that only fresh air is supplied to the engine, which is essential for achieving optimal combustion
- Dampers: low vibration transmitted through the drum to machine components, allowing for higher durability



## POWERFUL AND PRODUCTIVE MORE WORK WITH LESS PASSES

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

- High manoeuvrability: +/- 15° drum swing angle, 37° steering angle » short turning radius
- Low steering effort » operator comfort
- Perfect match of vibration frequency and amplitude for best performance



## RELIABLE AND DURABLE HIGH AVAILABILITY AND LONG SERVICE LIFE

The V110 vibratory soil compactor is available in three configurations to meet all surface compaction needs.

- V110D - with drum drive ideal for compacting sloping and stepped soils
- V110PD - with padfoot and drum drive for compacting cohesive material such as clay. The drum drive system features an additional high-torque motor mounted on the front drum frame, resulting in excellent climbing ability (36° continuous and 40% intermittent) and optimized traction



## VERSATILE PERFORMANCE SUITABLE FOR MULTIPLE APPLICATIONS

The V110 vibratory soil compactor features the new Tier 3 4-cylinder, water-cooled engine. With more than 3 million units in operation worldwide, including B80B backhoe loaders, this engine offers excellent reliability.

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## EFFICIENT AND COMFORTABLE OPERATOR PLATFORM

### EXCELLENT VISIBILITY AND SAFE ACCESS

- Easy and safe access to the operator platform thanks to wide steps and sturdy handrails
- Operator platform mounted on rubber bumpers to minimize vibration
- 2 headlights + 2 plough lamps and 2 rear worklights as standard for excellent visibility



## EFFECTIVE AND LOW-COST MAINTENANCE

### SIMPLE AND SAFE MAINTENANCE

- Easy access from ground level to the battery and all major service elements » thanks to the one-piece engine hood
- Optimized engine design for easy access to its hydraulic components



# MAIN REASONS TO CHOOSE THE V110

## HIGH EFFICIENCY

- Turbocharged engine
- Aftercooler system
- Higher intake air density
- Improved efficiency
- Reduction of fuel consumption
- High torque

## SIMPLE AND SAFE MAINTENANCE

- Regular and daily maintenance is easy from ground level thanks to the one-piece engine cover
- Reduction of downtime and operating costs results in higher productivity and better protection

## HIGH RELIABILITY

- Standard pre-filter turbo
- Heavy duty drum support frame
- 4-pin joint
- 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 either in phase with the eccentric shaft for maximum centrifugal force, or in opposite position, for minimum centrifugal force.



## WORLD-CLASS PRODUCTIVITY

- Perfect combination of frequency and amplitude in vibration
- Robust front-frame for more strength and weight in the front
- The 32 mm thick drum provides greater reliability and a higher load on the front axle, which increases the compaction capacity



## COMFORTABLE AND SAFE OPERATOR PLATFORM

- Easy and safe access to the cabin
- 90° clockwise rotation of the seat, for excellent rear visibility
- Safety handrails all around
- ROPS/FOPS cabin





## SPECIFICATIONS

MODEL	
Brand	FPT
Model	S8000 - TIER III
Type	4-stroke, turbocharged and aftercooled
Cylinders	4
Diameter / Run (mm)	104x105
Displacement (L)	3.9
Fuel injection	Diesel - Direct
Fuel	High-rpm diesel
Fuel filter	Rotary type
Air intake	Turbocharged with internal EGR
Air filter	Dry type replaceable for dual element and coupled pre-cleaner turbo
Engine oil filter	Spin-on type
Cooling	Cooling liquid
Engine speed (no load)	
-Low (rpm)	950±50
-High (rpm)	2150±25
Net Power (hp@rpm)	105@2300
Raw Power (hp@rpm)	110@2300
Maximum torque (Nm@rpm)	430@1400

VIBRATION SYSTEM	
Type	Axial piston pump with bi-directional variable displacement and electric displacement control
Vibrating pump drive	Mechanical Connection
Motor and pump ratio	Direct 1:1
Low frequency shift	40 cc/rev
Relief valve adjustment (bar)	22 (1800 rpm)
Vibration motor	Axial piston engine (43,5 cc/rev)

DIRECTION	
Steering system	Articulated hydrostatic steering
Steering angle	37° to each side (74° between beaters)
Diameter of the turning circle (m)	11
Drum oscillation angle	15°
Tires	23.1-26 / 8 PR

ELECTRICAL SYSTEM	
Alternator (A)	65
Battery (V/Ah)	12/130

INSTRUMENTATION	
Warning lights	Parking brake, High/low beam, Battery not charged, Two speed, Pre-heater, Left/right turn signal, Neutral
Instruments	Digital Hour Meter, Water Temperature, Fuel Level, Engine Rpm
Visual warnings/alarms	Coolant overheating, clogged hydraulic oil filter, Low oil pressure, clogged air filter

SERVICE CAPACITIES	
Fuel tank (l)	235
Hydraulic tank (l)	70
Engine crankcase (l)	8,6
Engine cooling (l)	15

GEARING	
Type	Infinitely variable hydrostatic drive with variable displacement pump
Drive pump	Bi-directional variable displacement axial piston pump with manual displacement control
Motor and pump ratio	Direct 1:1
Pump displacement (cc/rot)	78
Loading pressure (bar)	22 (@1800 rpm)

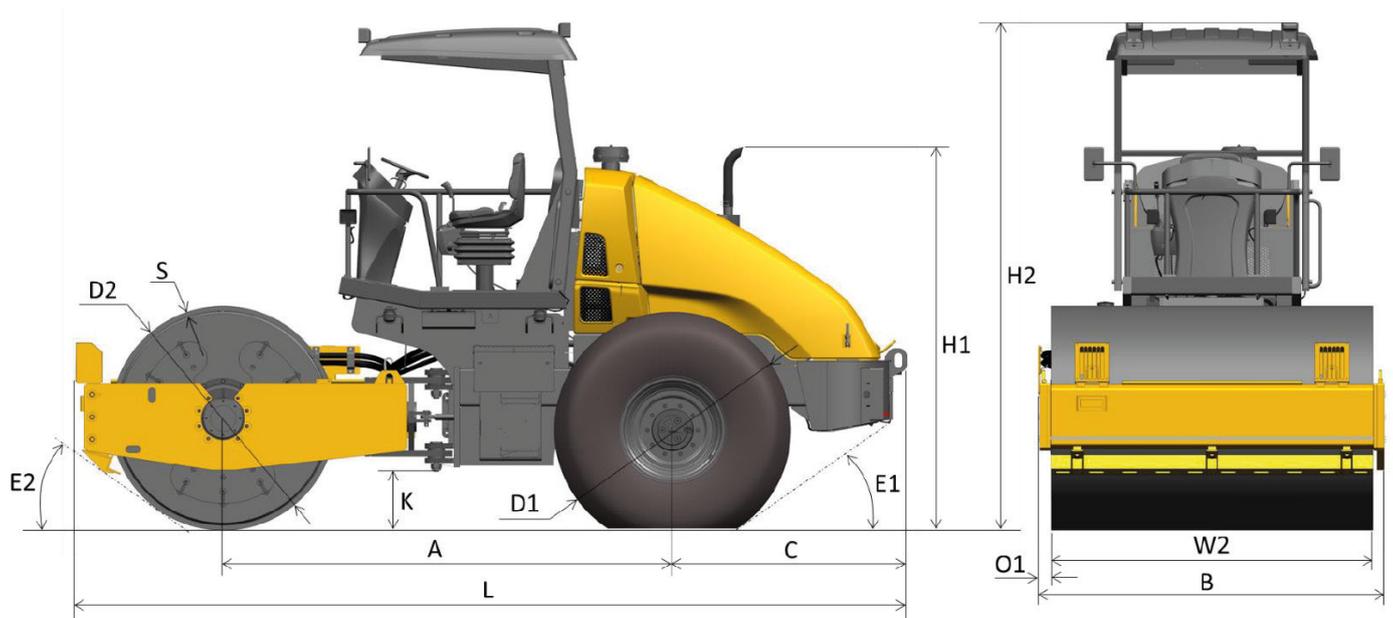
DRIVE MOTORS	
Type	Low-torque, high-revving drive motor mounted on the rear axle input shaft
For drum drive	Low-revving, high-torque drive motor mounted on the front drum frame along with the rear axle motor
Hydraulic oil filter	Cartridge
Axle	Heavy duty with integrated parking brake mechanism and external planetary gear
Parking brake	Released by hydraulic spring
Activation	Parking brake switch on the instrument panel

MACHINE SPEED	
Working speed (km/h)	0-5.5
Displacement speed (km/h)	0-11.5

PERFORMANCE ON SLOPE	
Without drum drive (%)	31 (17°)
With drum drive (%)	36 (20°)
Intermittent (%)	40

OPERATING DATA		V110D	V110PD
Operating weight	KG	11380	12560
Front axle load	KG	6560	7740
Rear axle load	KG	4820	4820
Linear static load front	KG/CM	31	(-)

VIBRATION SYSTEM		V110D		V110PD
Vibration stage		1	2	1
Frequency	Hz	31	34	34
Amplitude	mm	1.8	0.8	0.6
Centrifugal force	Kg	26815	14826	14826
Maximum force applied	Kg	33375	21386	22566



#### DIMENSÕES GERAIS

A	Horizontal distance between the center of the drum and the center of the tire	mm	3003
B	Overall machine width	mm	2324
C	Rear swing	mm	1560
D1	Rear tire diameter	mm	1560
D2	Drum diameter	mm	1500
H1	Muffler height from ground level	mm	2561
H2	Overall machine height (in transport)	mm	3389
K	Ground clearance	mm	382
L	Overall machine length	mm	5557
O1	Side swing	mm	87
S	Drum compartment thickness	mm	32
W2	Overall drum width	mm	2150
E1	Rear exit angle	Grades	36
E2	Front exit angle	Grades	32

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