1107EX-D

EX-SERIES COMPACTOR

CASE CONSTRUCTION

A SOLID BASE

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SPECIFICATIONS

1107EX-D

ENGINE

Make	FPT
Model	S8000 - TIER III 8045.45.747
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)	100
(@rpm)	2200
(ISO3046)	
Max. torque (Nm)	458
(@rpm)	1300

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 or 12 PR Tubeless

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	High speed low torque driving motor mounted on rear axle input shaft
For drum drive (optional)	Low speed high toque 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 out board 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	Hight torque out board planetary

Gradeability

Without drum drive (%)	31 (17°)
With drum drive (%)	36 (20°)
Intermittant (%)	40

INSTRUMENTATION

Indicators	Parking brake, high beam, low beam, position, battery not charging, 2-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

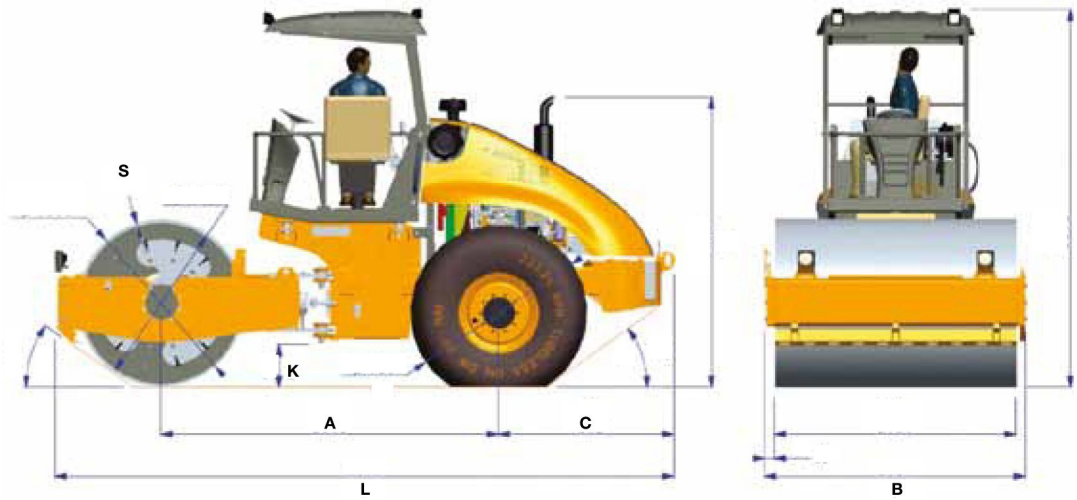
STANDARD EQUIPMENT

Sun roof, horn, front and rear working lights, 90° rotating operator seat, guard rail structure on operators platform, 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.

OPTIONAL EQUIPMENT

ROPS / FOPS structure, closed cabin with A/C, 25mm thick drum, pad foot.

GENERAL DIMENSIONS



DIMENSIONS

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

OPERATING DATA

		1107 EX-D
Operating weight with operator	kg	11080
Front axle load	kg	6480
Rear axle load	kg	4600
Static linear load front	kg/cm	30

VIBRATION SYSTEM

		1107 EX-D	
Vibration Stage		1	2
Frequency	Hz	31	34
Amplitude	mm	1.8	0.8
Centrifugal force	kg	26887	14888
Max. applied force	kg	33357	21358

MAIN REASONS
TO CHOOSE THE 1107EX

HIGH EFFICIENCY

The turbocharged engine is equipped with an air aftercooler system that increases the density of the intake air, improving efficiency and reducing fuel consumption.

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
- All-around safe hand rail
- Excellent visibility: two-post canopy design, sloping hood

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

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.

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.