PS-360B
Pneumatic Compactor

Cat® 3054T Diesel Engine		
Gross power	**78 kW**	**105 hp**
Maximum operating weight	**25 000 kg**	**55,115 lb**
Rolling width	**2275 mm**	**7' 6"**

Engine

Four-stroke cycle, four cylinder 3054T turbo-charged, diesel engine. Meets EPA and CARB emissions engine regulations.

Ratings at 2,200 rpm	kW	hp
Gross power	78	105

Ratings of Caterpillar machine engines are based on standard air conditions of 25°C (77°F) and 99 kPa (29.32") Hg dry barometer. Power is based on using 35° API gravity fuel having an LHV of 42,780 kJ,kg (18,390 Btu/lb) when used at 30°C (86°F) [ref. a fuel density of 838.9 g/L (7.001 lb/U.S. gal)]. Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.

The following ratings apply at 2200 rpm when tested under the specified standard conditions for the specified standard:

Net Power	kW	hp
ISO 9249	74	100
SAE J1349 (JAN90)	74	99
EEC80/1269	74	100

Dimensions		
Bore	100 mm	3.937"
Stroke	127 mm	5"
Displacement	4 L	243 in^3

Dual-element, dry-type air cleaner with visual restriction indicator.

Electrical System

The 24-volt electrical system includes 2 maintenance-free Cat batteries, color-coded and numbered wiring wrapped in nylon braid. The system includes a 45-amp alternator.

Sound Levels

The operator sound pressure level measured according to the procedures specified in SAE J919 APR95 is 82.5 dB(A).

Brakes

Service brake features

Closed-loop hydrostatic drive system provides dynamic braking during machine operation.

Secondary and parking brake features Spring-applied/hydraulically released disc brakes are actuated by a switch on the control console. They are also activated automatically if pressure is lost in the brake circuit or when the engine is shut off. Brake systems meet SAE standard J1472 MAR92.

Transmission

Two speed hydrostatic propel system. Hydrostatic pump provides oil to two hydrostatic motors mounted above the drive axles. Drive shafts connect the motors to the axles.

A single propel lever located on the control console provides smooth hydrostatic control of the infinitely variable speeds in both forward and reverse.

PS-360B Speeds (forward and reverse):	
Low	0-8 kmph (0-5 mph)
High	0-18 kmph (0-11 mph)

Axles

Each set of rear wheel pairs are mounted directly to heavy-duty planetary drives.

Service Refill Capacities

	Liters	U.S. Gallons
Fuel Tank	200	52.8
Cooling system	28	7.3
Engine oil (w/filter)	7,3	1.9
Brake	0,6	0.13
Axle	7,5	2
Hydraulic tank	90	23.7
Tire spray tank (optional)	394	104
Emulsion tank (optional)	19	5

Steering

Steering is hydraulic power-assist for responsive, low-effort machine handling.

Minimum turning radius:

Inside 3470 mm
Outside 6700 mm
Steering Angle (each direction) 38.4°
Hydraulic system
One 76 mm (3") bore, double-acting cylinder powered by a gear pump.
Output @ 1200 rpm with 689 kPa 6,8 bar (100 psi) 11,6 Lpm (3 gpm)

Wheels and Tires

14/70 x 20 12-ply tires
3 wheels front, 4 wheels rear

Each tire is equipped with a replaceable scraper. The scrapers help clean asphalt or soil off the tires. The scrapers can be positioned above the tires when they are not needed.

Rear tires extend 58 mm (2.25") outside the width of the frame. Front and rear wheels oscillate to provide uniform compaction across entire rolling width. This also ensures excellent bonding of longitudinal asphalt joints.

Frame

Fabricated from welded heavy gauge steel plates. Integral baffle plates prevent water surge when water ballasted. Ballast compartments have cover plates. Frame is designed to provide approximately equal loading per wheel with all types of ballast.

The clean, unitized design provides a flat deck for excellent operator mobility. The frame is designed for easy access to all major components.

Protective Structure

Roll Over Protective Structure (ROPS) is a two-post structure that bolts directly onto flanges welded to the machine frame. Meets SAE recommended practice J1040 MAY94.

Instrumentation & Gauges

The start switch, alternator indicator light, coolant temperature gauge, engine oil pressure gauge, hydraulic oil temperature gauge and hour meter are located on the instrument panel in front of the operator. Machine instrumentation and most controls are located at the operator's right on the control console. This includes the propel lever, speed selector switch, spray system controls, horn and secondary/parking brake switch.

Ballast Considerations and Ground Contact Pressures

The most common method of changing ground contact pressure is to vary the tire pressure. Another means to change ground contact pressure is to alter the ballast. The PS-360B can be ballasted with sand, water, steel or a combination of each. These three components provide varying weight capacities, allowing the machine to be tailored to specific requirements.

Ballast Compartments

Ballast compartments are positioned with a calculated balance of wheel to weight ratio. Internal-frame baffles help prevent surges when water ballasted.

Sand and steel ballast can be added through large cover plates on the operation deck, and water can be added through a fill port.

Sand and steel ballast can be removed through a bolt-on side cover, and water ballast can be emptied through a drain port.

Ballast capacity:
5 cubic meters (177 cubic feet)
5000 L (1,321 gal)

Weight of ballast material

.028 cubic meters (1 cubic foot) of wet sand weighs 57 kg (125 lb).

.028 cubic meters (1 cubic foot) of water weighs 28 kg (62.4 lb).

Dimensions

A	Length	4930 mm	16' 2"
B	Compaction width	2275 mm	7' 6"
C	Frame width	2150 mm	7' 1"
D	Height at steering wheel	2530 mm	8' 4"
E	Height with ROPS	3200 mm	10' 6"

F Wheel base	3650 mm	12'
G Ground clearance	252 mm	10"
Outside turning radius	6700 mm	22'
Inside turning radius	3470 mm	11' 5"
Tire Overlap	58 mm	2.25"