

AP-1000B

Rubber Tire
Asphalt Paver



Cat® AP-1000B

Operating weight:

with Extend-A-Mat B Screed	18 940 kg	41,750 lb
with Pavemaster B Screed	17 330 kg	38,200 lb

Hopper Capacity 6,1 cu m 215 cu ft

Standard Paving Width 3,05 m 10 ft

Maximum Paving Range:

with Extend-A-Mat B Screed	2,44 - 7,37 m	8 - 24 ft 2 in
with Pavemaster B Screed	2,44 - 9,14 m	8 - 30 ft

Engine

Cat 3116TA turbocharged and aftercooled, four stroke/cycle six cylinder diesel engine. Meets EPA and CARB low emissions engine regulations.

Ratings at 2200 RPM	kW	Hp
Gross power	130	174
Net power	118	158

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	Ps
Caterpillar	118	158	—
EEC 80/1269	118	158	—
ISO 9249	118	158	—
SAE J1349 (JAN)90	118	158	—
DIN 70020	—	—	164
ISO 3046/2	118	158	—

Dimensions

Bore	105 mm	4.12"
Stroke	127 mm	5.0"
Displacement	6.6 L	403 cu. in

Drive System

The drive is via two dual path hydrostatic pumps and variable displacement motors. Pumps are infinitely variable with electric dual controls for steering and speed. Motors have two displacement settings for four speed ranges.

Forward speed ranges

Pave low	0-68,5 mpm	0-224 fpm
Pave high	0-114 mpm	0-374 fpm
Travel low	0-17 kmph	0-10.5 mph
Travel high	0-23,5 kmph	0-14.5 mph

Speeds may vary slightly due to type of tires used.

Hydraulic Oil Filtration

Propel pumps have 10-micron integral charge loop filtration and 7-micron reservoir return filtration. The material feed system (feeders/augers) has 5-micron integral charge loop filtration. Vibrator pump has 125-mesh suction strainer on the inlet. The auxiliary pump has a 100-mesh suction strainer on the inlet.

Suspension

Four front wheels, two per side, are mounted in tandem on bogey axles, equalizing ground pressure.

Drive Tires (sand rib, hydroflated)

18:00 x 25

Steering Tires (solid rubber)

406 mm x 559 mm (16" x 22")

Steering

Steering is full power via an automotive-type steering wheel at the operator's station. Electric-over-hydraulic dual path differential steering assures precise machine control. Steering commands are independent of propel speed. Inside turning radius is 2,9 m (9' 6").

The steer assist feature improves maneuverability and enhances component life by slowing down the drive speed on one side of the propel system and speeding up the other according to steering commands.

Brakes

Service brake system: Closed-loop hydrostatic system provides dynamic braking. Parking brake system: Spring-applied/hydraulically released brake on wheel drives. Parking brake actuated by hand control at the operator's station or automatically when engine is shut down and whenever power switch is in off mode. Brake systems meet SAE recommended practice J2118 Feb94.

A brake interlock system helps prevent driving through the secondary brake.

Hopper

Power hopper dumping, controlled from control console. Heavy-duty flashing prevents material spillage.

Capacity

6,1 cu m (215 cu ft)

Truck Entry Width

3182 mm (10' 5")

Service Refill Capacities

	Liters	Gallons
Fuel Tank	265	70
Hydraulic Oil Tank	189	50
Cooling System	37	9.78

Weights (approximate)

With Extend-A-Mat 10-20B Screed	18 940 kg (41,750 lb)
With Pavemaster 10B Screed	17 330 kg (38,200 lb)

Dimensions

	Extend-A-Mat B Screed	Pavemaster B Screed
A Length with push roller with truck hitch	6783 mm (22' 3") 7264 mm (23' 10")	6285 mm (20' 7") 6756 mm (22' 2")
B Operating width	3327 mm (10' 11")	3327 mm (10' 11")
C Overall height	3378 mm (11' 1")	3378 mm (11' 1")
D Transport width (hoppers raised) with end gates Transport width (hoppers raised) without end gates	3327 mm (10' 11") 3048 mm (10')	3327 mm (10' 11") 3048 mm (10')
E Transport height (muffler removed)	2769 mm (9' 1")	2769 mm (9' 1")
F Wheel base	2540 mm (100")	2540 mm (100")
G Front wheel gauge	2491 mm (98")	2491 mm (98")
H Rear wheel gauge	2284 mm (90")	2284 mm (90")
Inside turning radius	2,9 m (9' 6")	2,9 m (9' 6")

