



AP-1000

ASPHALT PAVER

- **High Productivity**...equipped to handle wide width paving and high-tonnage laydown.
- **Delivers High Quality Mat**...state-of-the-art screed options and material delivery system combine to produce superior mat quality.
- **Reliable Operation**...incorporates proven Cat engine and totally hydrostatic propel system for optimum performance, mile after mile.
- **Easy Service**...swing-open doors provide ample access.
- **Total Customer Support System**...unmatched in the industry.

- **Cat 3116T Turbo-charged Diesel Engine**107 kW/145 hp
- **Operating Weight**13 370 kg/29,475 lb (with Pavemaster Screed)
- **Standard Paving Width**3048 mm/10 ft.
- **Paving Range**2,4 m/8 ft to 9,1 m/30 ft.

Machines shown may have optional equipment.



SPECIFICATIONS



Diesel Engine

Gross power @ 2200 rpm107 kw/**145 HP**
Caterpillar® 3116T turbo-charged diesel engine.

Gross horsepower based on SAE J1349 standard conditions 25°C/77°F and 100 kPa/29.51" hg, using 35 API gravity fuel and engine equipped with fuel, lube oil and jacket water pumps. No derating required up to 2500 m/8,200 ft. altitude.

Four-stroke/cycle diesel engine with six cylinders, 105 mm/**4.13"** bore, 127 mm/**5.0"** stroke and 6,6 liter/**403 cu. in.** displacement.

Air cleaner — dry type

12-volt electrical starting system with 100-amp alternator and one 12-volt Caterpillar battery. Engine is prevented from starting unless both power switches are switched to STOP.

Engine is noise suppressed to keep ambient sound levels low, meeting OSHA requirements.



Drive System

Drive is via dual path hydrostatic variable pumps (2) and variable motors (2). Motors have two displacement settings for two speed ranges. Forward Speed Ranges:

Paving (maximum)8 kmh/**5 mph**

Travel (maximum)19,3 kmh/**12 mph**

Motors drive planetary drive boxes with integral multi-disc parking brake.

Drive Tires18.00 x 25, 16-ply sand rib

Steering Tires22" O.D. x 14" solid rubber



Frame

Fabricated from heavy gauge steel plate and rolled sections. Nominal frame thickness is 19 mm/**.75"**.



Steering

Steering is full-power steering via steering wheel at each operator station. All four front wheels are mechanically interlocked and steered by a single modulated hydraulic cylinder.

Inside Turning Radius3251 mm/**128"**



Brakes

Primary braking system: Hydrostatic transmission dynamic braking.

Auxiliary braking system: foot pedal activated multi-disc oil immersed brakes, self-adjusting.

Parking brake system: Two spring-applied, hydraulically released parking brakes.



Hydraulic Oil Filtration

Feeder drive pumps have 10-micron filters located after charge pumps for forced filtration on suction lines to pumps. Propel pump has 10-micron suction filtration. Vibrator pump has 100 mesh suction filtration. Auxiliary pump has 5-micron filters on pressure outlet. 10-micron filters on return lines to tank.



Operator Stations

Two deluxe heat-reflective seats with arm rests. Fully adjustable. Seats pivot outside machine frame 152 mm/**6 in.** for better visibility.



Operator Controls

Dual station, lockable consoles each have: steering wheel; Steer Assist; FORWARD/REVERSE switch; HIGH/LOW speed switch; parking brake ON/OFF switch; foot brake; compactor mode switch; feeder mode switch; hopper RAISE/LOWER switch; STOP/GO switch; screed UP/DOWN switch; truck hitch OPEN/CLOSE switch (optional); horn; engine throttle FAST/SLOW switch; feeder gate UP/DOWN switch (optional); and speed selector dial.



Instrumentation

Operator's stations include gauges for: engine water temperature; engine oil pressure; voltmeter; hydraulic oil temperature; engine hour meter; keyed ignition switch; starter switch; fuel level.



Slat Conveyors and Augers

Dual feeders with independent variable speed hydrostatic drive and controls. System is equipped with automatic and fully-proportional controls for consistent material feed. Drag flights and chains are alloy steel for long life. Replaceable floor plates are 9,5 mm/**3/8"** thick wear-resistant steel. 406 mm/**16 in.** diameter augers are constructed of all-cast wear-resistant Ni-Hard alloy. Auger consists of ten 356 mm/**14 in.** and four 152 mm/**6"** long bolt-on segment sections. Kicker paddles distribute material under center chain-drive housing.

Augers

Diameter457 mm/**16 in.**

Materialall-cast Ni-Hard Alloy

Pitch305 mm/**12 in.**



Vibrator Drive

Frequency is manually adjusted at the screed through a variable frequency speed hydraulic drive. Remote start-stop control with override at operator's console.



Hopper

Heavy-duty power-folding dump type hopper with RAISE/LOWER control located on each operator station. Hopper has deluxe flashing on the front for material retention.

Capacity6,1 cu. m/215 cu. ft.



Suspension

Front wheels are mounted in bogied tandem pairs equalizing ground pressure.



Service Refill Capacities

	Liters	U.S. Gallons
Fuel Tank	230,8	60
Hydraulic oil tank	150	39
Cooling system	28,1	7,3



Weights (approximate)

	VIP SCREED	PAVEMASTER SCREED
Operating weight	14 905 kg/ 32,860 lb	13 370 kb/ 29,475 lb
Shipping weight	14 719 kb/ 32,450 lb	13 184 kb/ 29,065 lb



Dimensions

	VIP SCREED	PAVEMASTER SCREED
A-Length w/ oscillating push roller	6744 mm/ 21 ft. 3 in.	6285 mm/ 20 ft.
w/truck hitch	7016 mm/ 23 ft. 3 in.	6400 mm/ 21 ft.
B-Screed width	3150 mm/ 10 ft. 4 in.	3200 mm/ 10 ft 6 in.
C-Overall Height	2946 mm/ 9 ft. 8 in.	

D-Transport width with hopper folded	3022 mm/ 9 ft. 11 in.
E-Transport height with muffler removed	2693 mm/ 8 ft. 10 in.

