



Cat[®] AP1000

Asphalt Paver

The Cat[®] AP1000 Asphalt Paver is a wheel paver that delivers a high-return on investment with its fast-heating screed system, low fuel consumption, durable components, and easy to use technology. A variety of screed choices offer versatility and provide high-quality results on interstates, highways, airports, and parking lots.

High Return on Investment

- Exclusive 70 kW integrated generator delivers fast, reliable screed heating and is designed for long life by the same team that developed the D7E electric drive dozer.
- Fast heating screed leads to more daily production, heating time in as little as 15 minutes.
- Excellent turning capability, fast travel leads to increased production.
- Exclusive air flow design improves operating conditions for the crew and keeps components cooler for lasting durability.

Technology That Works For You

- Pave Start Assistant (option) saves set-up profiles for repeatable use on future job sites including: tow-point height, screed heat temperature, paving speed, paving width, paving depth, crown, extender slope and height, screed assist, and screed locking features.
- A hopper level sensor (option) with temperature indication keeps the operator informed of material height and delivery temperatures, indicators are located in each tractor display.
- Exclusive screed heating system monitors elements for failure conditions and helps eliminate unnecessary replacement.
- Cat[®] Grade Control option is integrated into the tractor and screed displays for optimized operator efficiency.
- Thermal mapping (option) utilizes an infra-red camera mounted on a fixed-position mast that captures the entire width of the asphalt surface behind the screed. An LCD display mounted near the screed console provides real-time visibility to the surface being paved.

High Quality Results, Higher Earnings

- Versatile screed designs deliver excellent ride, density, and mat texture while providing superior adjustment; available with front-mount extenders, rear-mount extenders, or tamper-bar systems.
- The optional Cat[®] SDX Screed Plate System is designed to increase density and smoothness. The system is available for the SE60 V and SE60 V XW Asphalt Screeds.
- Tow-point utilizes exclusive linkage design for optimal screed flotation.
- Exclusive 2-speed proportional control on the screed extenders.
- Cat Grade Control is a factory-integrated guidance system that helps remove irregularities from the surface and control mat thickness for increased production, lower operating costs, and higher profitability.

Low Owning and Operating Costs

- Exclusive Eco-mode and Automatic Engine Speed Control, reduce fuel consumption and lower sound levels for better comfort and communication.
- 4-pump feeder system is designed for high production in Eco-mode, leads to lower fuel consumption.
- Million cycle switches provide reliability.
- Conveyor bed plates and chain guards designed to minimize labor requirements and provide lower cost replacement.
- Heating elements slide-out for easy replacement.
- Machined screed frames simplify screed plate replacement.
- Enhanced hopper flashing with improved memory and temperature resiliency offers better performance during truck exchanges.



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More Comfort

- Ventilation system draws fumes from the auger chamber and redirects them away from the operator for a more comfortable working environment.
- Dual operating station provide back-up capability and complete control from either side of the machine, each station can swing-out beyond the frame for good all-around visibility.
- Heated seat option, pneumatic suspension, multiple adjustments, and tilting consoles provide day-long comfort.
- Eco-mode provides low sound levels that supports clear communication with the crew.
- High visibility 76 mm (3") seat belt helps with crew safety compliance.
- USB port simplifies software updates.
- Cup holders offer convenience.

Easy Viewing Displays, Simple Operation

- Touch-screen displays with adjustable brightness control enable operators to fine-tune performance in various lighting conditions.
- Touch-screen access simplifies activation of the generator and auxiliary power, while also providing easy adjustments to screed plate heating temperatures, tamper and vibratory speeds, Cat Grade Control (option), and stored operator preferences.
- Operating displays can be tailored to specific language requirements with multiple options available.

Cat Electronics

- Cat Electronic Control Modules (ECM) and Electronic Technician (ET) compatibility simplifies diagnostics and trouble-shooting procedures.

VisionLink™ Telematics

- VisionLink™ is a cloud-based software application that provides data to your desktop or mobile device, taking the guesswork out of fleet management with key insights to maximize performance – regardless of fleet size or equipment manufacturer.
- The system provides maintenance needs, machine hours, location, fuel usage, idle time, diagnostic codes, and other machine data to your mobile device, desktop or through an API to other software applications.

Service and Repair

- The cooling system is available with optional pre-filtration to help prevent buildup and simplify cleaning. Four interchangeable filters located in the center housing on the top deck help prevent fines build-up.
- The engine oil filter and drain on the AP1000 and AP1055 are mounted remotely inside the left compartment near the Diesel Exhaust Fluid (DEF) tank, making them easily accessible.
- Paver and screed service and repair kits include the parts necessary to complete specific repairs.
- Cat genuine parts are manufactured to precise specifications and designed for optimal performance and maximum uptime.
- Repair kits are identified by a single part number to make ordering easy.
- Select kits are available to be packaged as a kit by the dealer for over-the-counter purchases or through the dealer service shop.

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OPERATING ENVIRONMENT		
Air-ride seat		✓
Canopy – hard top		✓
Deceleration pedal		✓
Dual operating stations	✓	
Heated seats		✓
Side shields		✓
Steering guide	✓	
Tow-point indicator		✓
Umbrella – tractor/screed		✓
Ventilation system	✓	
Visor – LCD screen		✓
Windshield – requires hard top canopy		✓
TECHNOLOGY		
Cat® Grade Control		✓
Hopper level and material temperature indication		✓
Pave Start Assistant		✓
Thermal mapping		✓
VisionLink™ telematics		✓
POWERTRAIN		
All-wheel drive		✓
Automatic engine speed control	✓	
Ballast – front weights		✓
Cat C7.1 – 6-cylinder	✓	
Cooling fan – variable speed	✓	
Eco-mode	✓	
Front-wheel assist		✓
Radial drive tires		✓
Sand-rib drive tires		✓
ELECTRICAL SYSTEM		
1400 CCA battery	✓	
100 amp alternator	✓	
12-volt charging system	✓	
24-volt charging system	✓	
Automotive-type fuse system	✓	
Auxiliary power panel – 6 kW		✓
Cat Electronic Technician (Cat ET)	✓	
Generator – 70 kW	✓	
Machine security – wire ready	✓	
Remote jump-start receptacle	✓	

	Standard	Optional
MATERIAL DELIVERY		
Auger extensions		✓
Cat SDX Screed Plate System		✓
Leveling Devices		✓
Mainframe extensions – manual		✓
Mainframe extensions – power		✓
Material feed sensors – contact	✓	
Material feed sensors – sonic		✓
Power folding front hopper apron		✓
Push-roller – adjustable	✓	
Truck hitch		✓
Wash-down pump and reel		✓
Washdown tank		✓
Wide-width paving packages		✓
SERVICE AND MAINTENANCE		
Extended life coolant to -35° C (-37° F)	✓	
Ground level engine air filter access	✓	
Hydraulic oil – extended life	✓	
Remote access drains and lubrication points	✓	
Service repair kits		✓
Sampling ports for Scheduled Oil Sampling (S-O-S SM)	✓	
Sight Gauges – engine coolant, hydraulic oil	✓	
Uptime kit		✓
SAFETY		
Alarm – back-up	✓	
Horn – warning (front & rear)	✓	
Lights – working	✓	
Lights – roading		✓
Mirror package	✓	
Vandal covers	✓	
Warning – LED safety beacons		✓

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Technical Specifications

PowerTrain

Engine model	Cat C7.1	
Engine power @ 2200 rpm (ISO 14396-2002)	168 kW	225 hp
Meets U.S. EPA Tier 4 Final emission standards.		
Speed – paving	76 fpm	250 fpm
Speed – paving with tamper screed	25 fpm	82 fpm
Speed – travel	19.9 km/hr	12 mph

Machine Weight

Paver only (shipping)	15 526 kg	34,228 lb
w/SE60 FM screed (operating)	19 332 kg	42,620 lb
w/SE60 V screed (operating)	19 214 kg	42,360 lb
w/SE60 V XW screed (operating)	19 889 kg	43,848 lb
w/SE60 VT XW screed (operating)	20 531 kg	45,263 lb

Operating Weights are approximate and include coolant, lubricants, full fuel tank, and 75 kg (165 lb) operator.

Service Refill Capacities

Maximum throughput capacity	1602 Tonnes	1766 Tons
Hopper capacity	8.1 m ³	286 ft ³
Cooling system	45 L	12 gal
Diesel Exhaust Fluid (DEF)	19.1 L	5 gal
Engine oil	16 L	4.2 gal
Fuel tank	348 L	92 gal
Hydraulic tank	219 L	58 gal
Washdown spray tank	30 L	7.9 gal

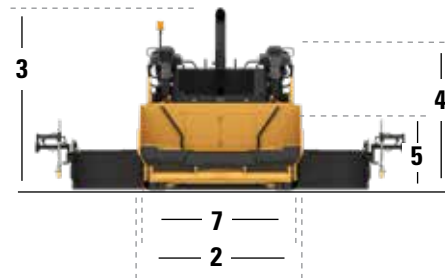
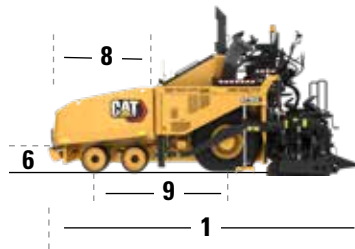
Paving Range With Extensions

SE60 FM screed	3.05 m - 7.8 m	10' - 25' 6"
SE60 V screed*	3.0 m - 7.65 m	9' 10" - 25'
SE60 V XW screed	3.0 m - 7.5 m	10' - 24.5'
SE60 VT XW screed	3.0 m - 6.0 m	10' - 19.5'
Paving depth	305 mm	12"

* Paving range includes wide width endgate shoe

Dimensions

1	Operating length w/SE60 FM	6608 mm	21' 9"
	Shipping length w/SE60 FM	6375 mm	20' 11"
	Shipping width w/SE60 FM	3592 mm	11' 10"
1	Operating length w/SE60 V	6800 mm	22' 4"
	Shipping length w/SE60 V	6635 mm	21' 10"
	Shipping width w/end gates - SE60 V	3211 mm	10' 6"
	Shipping width w/end gates folded - SE60 V	3000 mm	9' 10"
1	Operating length w/SE60 V XW, VT XW	7034 mm	23' 1"
	Shipping length w/SE60 V XW, VT XW	6910 mm	22' 8"
	Shipping width w/end gates - SE60 V XW, VT XW	3211 mm	10' 6"
	Shipping width w/end gates folded - SE60 V XW, VT XW	3000 mm	9' 10"
2	Operating width (standard entry hopper)	3306 mm	10' 10"
3	Operating height	3765 mm	12' 4"
4	Shipping height	3000 mm	9' 10"
5	Operating platform height	1849 mm	6' 1"
6	Truck entry height (standard entry hopper)	520 mm	21"
7	Truck entry width (standard entry hopper)	3224 mm	10' 7"
8	Hopper length w/push roller extended	2414 mm	7' 11"
9	Wheel base	2776 mm	9' 1"
	Auger diameter	406 mm	16"



Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit www.caterpillar.com/en/company/sustainability.html.

ENGINE

- The Cat® C7.1 engine is available in configurations that meet U.S. EPA Tier 4 Final emission standards.
- Cat U.S. EPA Tier 4 Final diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.

PAINT

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

SOUND PERFORMANCE

With cooling fan speed at 70% of maximum value, engines meeting U.S. EPA Tier 4 Final, no canopy, and vibratory screed:

Operator Sound Pressure Level (ISO 6396:2008) – 86 dB(A)

Exterior Sound Power Level (ISO 6395:2008) – 107 dB(A)

With cooling fan speed at 70% of maximum value, engines meeting U.S. EPA Tier 4 Final, canopy, and vibratory screed:

Operator Sound Pressure Level (ISO 6396:2008) – 87 dB(A)

Exterior Sound Power Level (ISO 6395:2008) – 107 dB(A)

- The dynamic operator sound pressure level measurements are performed according to the dynamic test procedures that are specified in ISO 6396:2008. When equipped with tamper bar screeds, operator sound pressure levels are 1 dB (A) higher than the values listed above.
- Hearing protection may be needed when operating with an open operator station for extended periods or in a noisy environment.

OILS AND FLUIDS

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

FEATURES AND TECHNOLOGY

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Eco-mode operates at a lower rpm to minimize fuel consumption
 - Automatic engine speed control modifies engine speed when moved to and from neutral to enhance fuel efficiency
 - Advanced Eco-mode combines automatic engine speed control and Eco-mode to modify engine speed based on engine load, conserving fuel and increasing efficiency
 - Extended maintenance intervals reduce fluid and filter consumption

RECYCLING

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	77.56%
Iron	9.20%
Nonferrous metal	4.00%
Rubber	1.94%
Fluid	1.56%
Plastic	1.45%
Uncategorized	1.34%
Other	1.12%
Mixed metal	0.92%
Mixed metal and nonmetal	0.91%
Mixed nonmetallic	0.00%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 97%

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For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment.
See your Cat dealer for available options.

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