Cat® AP600

Asphalt Paver

The Cat® AP600 Asphalt Paver is a wheel paver that delivers a high-return on investment with it's fast-heating screed system, low fuel consumption, durable components, and easy to use technology. The tamper-bar screed design delivers smooth material flow and quality results with superior adjustment.

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

High Quality Results, Higher Earnings

- Versatile tamper-bar screed design delivers excellent ride, density, and mat texture while providing superior adjustment
- 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 increased memory and temperature resiliency offers better performance during truck exchanges

CAT®

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 simplify diagnostics and trouble-shooting procedures

Product Link™ Elite

- Make timely, fact-based decisions to maximize efficiency, improve productivity, and lower owning and operating costs
- Easily track location, machine hours, fuel usage, and idle time
- Diagnostic codes are made available through online web applications

Service and Repair Kits

- 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 Assitant		✓
Product Link™ Elite 631 – satellite		✓
Product Link Elite 641 – cellular	✓	
POWERTRAIN		
All-wheel drive		✓
Automatic engine speed control	✓	
Ballast – front weights		✓
Cat C4.4 – four-cylinder		✓
Cat C7.1 – six-cylinder		✓
Cooling fan – variable speed	✓	
Eco-mode	✓	
Front-wheel assist		✓
Radial drive tires		✓
Sand-rib drive tires		✓
ELECTRICAL SYSTEM		
1000 CCA batteries (2)	✓	
100 amp alternator	✓	
12-volt power receptacle	✓	
24-volt charging system	✓	
Automotive-type fuse system	✓	
Auxiliary power panel – 6.6 kW		✓
Cat Electronic Technician (Cat ET)	✓	
Generator – 70 kW	✓	
Machine security – wire ready	✓	
Remote jump-start receptacle	✓	

	Standard	Optional
MATERIAL DELIVERY		
Auger extensions		✓
Leveling Devices		✓
Mainframe extensions – manual		✓
Mainframe extensions – power		✓
Material feed sensors – contact	✓	
Material feed sensors – sonic		✓
Power folding front hopper apron		✓
Push-roller – adjustable	✓	
Wash-down pump and reel		✓
Washdown tank		✓
Wide-width paving packages		✓
SERVICE AND MAINTENANCE		
Extended life coolant to -35° C (-37° F)	✓	
Engine coolant heater (C4.4 engine)	✓	
Hydraulic oil – extended life	✓	
Remote access drains and lubrication points	✓	
Service repair kits		✓
Sampling ports for Scheduled Oil Sampling (S·O·S℠)	✓	
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		✓

Cat® AP600 Asphalt Paver

Technical Specifications

PowerTrain		
Engine model	Cat C4.4	
Engine power @ 2200 rpm (ISO 14396-2002)	129 kW	173 hp
Meets U.S. EPA Tier 4 Final, EU Stage V, and Korea Tier 5 emission standards.		
Engine model	Cat C7.1	
Engine power @ 2200 rpm (ISO 14396-2002)	151 kW	202 hp
Meets Brazil MAR-1 emissions standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA		
Speed – paving	25 mpm	82 fpm
Speed – travel	16 km/hr	10 mph
Speed – Italian Road Homologation	14.9 km/hr	9 mph
Inside turning radius	1.5 m	4.5 ft

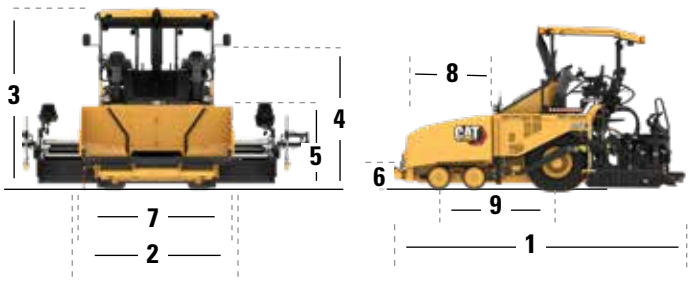
Machine Weight		
Paver only (shipping)	14 018 kg	30,904 lb
w/SE50 VT screed (operating)	17 794 kg	39,229 lb

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

Service Refill Capacities		
Maximum throughput capacity	1300 Tonnes	1433 Tons
Hopper capacity (including tunnels)	7.1 m^3	250 ft^3
Cooling system – C4.4 engine	31 L	8 gal
Cooling system – C7.1 engine	37 L	9.8 gal
Diesel Exhaust Fluid (DEF) – C4.4 engine	19.1 L	5 gal
Engine oil – C4.4	13.5 L	3.6 gal
Engine oil – C7.1 engine	15.5 L	4.1 gal
Fuel tank	278 L	73 gal
Hydraulic tank	219 L	58 gal
Washdown spray tank	30 L	7.9 gal

Paving Range With Extensions		
SE50 VT screed	2.55 m - 8.0 m	8' 4" - 26' 4"
Paving depth – maximum	305 mm	12"

	Dimensions		
1	Operating length w/SE50 VT	6831 mm	22' 5"
	Shipping length w/SE50 VT	6666 mm	21' 10"
	Shipping width w/end gates - SE50 VT	2762 mm	9' 1"
	Shipping width w/folded end gates - SE50 VT	2550 mm	8' 4"
2	Operating width	3306 mm	10' 10"
3	Operating height	3914 mm	12' 10"
4	Shipping height	3098 mm	10' 2"
5	Operating platform height	1850 mm	6' 1"
6	Truck entry height w/hydraulic apron	466 mm	18"
7	Truck entry width	3194 mm	10' 6"
8	Hopper length w/push roller extended	2414 mm	7' 11"
9	Wheelbase	2276 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® C4.4 engine is available in configurations that meet U.S. EPA Tier 4 Final, EU Stage V, and Korea Tier 5 emission standards.
- The Cat® C7.1 engine is available in configurations that meet Brazil MAR-1, equivalent to U.S. EPA Tier 3 or EU Stage IIIA.
- Cat U.S. EPA Tier 4 Final, EU Stage V, and Korea Tier 5 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
- Cat engines meeting Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA, are compatible with diesel fuel blended with the following lower-carbon intensity fuels up to:
  - ✓ 100% 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.*
*** For use of blends higher than 20% biodiesel, consult your Cat dealer.*

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, EU Stage V, and Korea Tier 5:

Operator Sound Pressure Level – 88 dB(A) European Directive 2000/14/EC, ISO 11201, EN 500-1, and EN 500-6:2006+A1:2008, Annex B
Exterior Sound Power Level – 104 dB(A) European Directive 2000/14/EC, European Directive 2005/88/EC, ISO 3744, EN 500-1, and EN 500-6:2006+A1:2008, Annex B

With cooling fan speed at 70% of maximum value, engines meeting Brazil MAR-1, equivalent to U.S. EPA Tier 3 or EU Stage IIIA:

Operator Sound Pressure Level – 89 dB(A) European Directive 2000/14/EC, ISO 11201, EN 500-1, and EN 500-6:2006+A1:2008, Annex B
Exterior Sound Power Level – 106 dB(A) European Directive 2000/14/EC, European Directive 2005/88/EC, ISO 3744, EN 500-1, and EN 500-6:2006+A1:2008, Annex B

- 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

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

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