Cat® AP300

Asphalt Paver

The AP300 Asphalt Paver and SE34 Series Screeds offer many user-friendly features. Advanced Eco-mode, auto-fill feeder system, single touch feeder system activation, and automated travel mode, simplify operation and enhance performance.

High Quality Results, Higher Earnings

- Standard paving range of 1.75 m - 3.42 m (5' 9" - 11' 2") with a maximum width of 4 m (13' 1") deliver excellent performance for parking lots, urban streets, pathways, trenches, narrow shoulders, and other mid-sized applications
- An optional paving reduction attachment narrows the paving width to 700 mm (27.5")
- Heated end gates, variable frequency vibration, and tamper bar settings help provide smooth material flow

Technology That Works for You

- Exclusive Eco-mode and automatic engine speed control, reduce fuel consumption and lower sound levels for better comfort and communication
- Auto-fill feeder system simplifies setup by filling the auger chamber to the set point determined by the feed sensors
- Single touch feeder system activation optimizes efficiency by activating each auger and each conveyor
- Automated travel feature; augers raise with the screed, preventing damage during transport
- Single-touch hopper control enables operators to concentrate on other duties

Low Owning and Operating Costs

- Engine options available to meet U.S. EPA Tier 4 Final, EU Stage V emissions and other regional standards
- 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 leveling

Unmatched After-The-Sale Support

- Strategically located dealers with 24/7 support
- In-the-Iron service training for technicians
- Paver Operator Training helps maximize machine performance
- Project consulting helps improve technique and job site management

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More Comfort

- Ventilation system option draws fumes from the auger chamber and redirects them away from the operator for a more comfortable working environment
- Single sliding console enables operation from either side of the machine
- Dual independent seats swing out beyond the platform for good visibility to curbs and obstacles
- Heated seat option delivers comfort in cool weather conditions
- High visibility 76 mm (3") seat belt helps with crew safety compliance

Easy Viewing Displays, Simple Operation

- Operating displays can be tailored to specific language requirements with multiple options available
- Easy access to generator activation, screed temperature control, screed heating zones, tamper and vibratory speeds, and service code information
- Intuitive symbols and large graphics simplify operation
- Adjustable brightness control for easy viewing day or night
- Raised switch design enables easy recognition for better efficiency and performance

Screeds That Deliver Quality

- SE34 V and SE34 VT screeds deliver excellent ride, density, and mat texture while providing superior adjustment capabilities
- Basic Grade Control option available

Cat Electronics

- Cat Electronic Control Modules (ECM) and ET compatibility simplifies 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 in real time
- Diagnostic codes are made available through online web applications
- Scheduled maintenance and SOS notification

Service and Repair Kits

- Paver and screed service and repair kits include all the parts necessary to complete specific repairs
- Cat genuine parts are manufactured to precise specifications and designed for optimal performane 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		
Canopy		✓
Deceleration pedal		✓
Single sliding console	✓	
Steering guide	✓	
Umbrella – tractor or screed		✓
Ventilation system		✓
TECHNOLOGY		
Basic Grade Control		✓
Product Link™ PL631 (satellite)		✓
Product Link PL6412 (cellular)	✓	
POWERTRAIN		
Ballast – front weights		✓
Cat C3.3B– four-cylinder	✓	
Cooling fan – variable speed	✓	
Front-wheel assist		✓
Radial drive tires	✓	
ELECTRICAL SYSTEM		
750 CCA battery – maintenance-free	✓	
85-amp alternator	✓	
12-volt charging system	✓	
Automotive-type fuse system	✓	
Auto-reset breaker for material sensors	✓	
Cat Electronic Technician (Cat ET)	✓	

	Standard	Optional
MATERIAL DELIVERY		
Material feed sensors – contact	✓	
Material feed sensors – sonic		✓
Push-roller – adjustable	✓	
Wash-down pump and reel		✓
SERVICE AND MAINTENANCE		
Bio-hydraulic oil		✓
Hydraulic oil – Cat® HYDO™ Advanced	✓	
Remote access drains	✓	
Service repair kits	✓	
Sampling ports for Scheduled Oil Sampling (S·O·S℠)	✓	
Sight Gauges – engine coolant, hydraulic oil	✓	
SAFETY		
Alarm – back-up	✓	
Horn – warning (front & rear)	✓	
Lights – Working	✓	
Lights – Roading	✓	

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Technical Specifications

PowerTrain		
Engine model	Cat C3.3B	
Engine power @ 2200 rpm (ISO 14396-2002)	55 kW	74.8 hp
Global emissions: *Engine options are available in order to meet U.S. EPA Tier 4 Final, EU Stage V, Brazil MAR-1, or emissions equivalent to U.S. EPA Tier 3, EU Stage IIIA, or emissions equivalent to U.S. EPA Tier 2 and EU Stage II.*		
Speed – paving	61 m/min	200 ft/min
Speed – paving with tamper bar screed	25 m/min	82 ft/min
Speed – travel	16 km/hr	10 mph
Tire Size	365/80 R20	

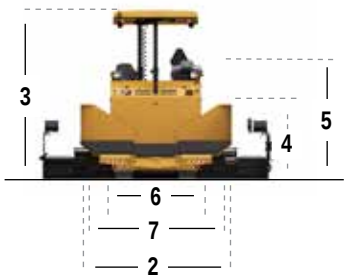
Machine Weight		
Paver only (shipping)	6600 kg	14,550 lb
w/SE34 V screed (operating)	8000 kg	17,637 lb
w/SE34 VT screed (operating)	8200 kg	18,078 lb

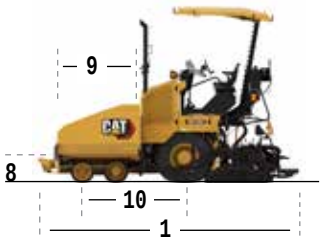
Operating Weights are approximate and include coolant, lubricants, full fuel tank , 75 kg (165 lb) operator, and grade control components.

Capacities		
Maximum throughput capacity	406 Tonnes	447 US Tons
Hopper capacity	3.8 m^3	134 ft^3
Fuel tank	110 L	29 gal
Cooling system	9 L	2.4 gal
Engine oil	13.2 L	3.5 gal
Hydraulic tank	80 L	17.6 gal
Washdown spray tank	28 L	6.2 gal

Paving Range		
SE34 V, SE34 VT		
Standard range	1.75 m - 3.42 m	5' 9" - 11' 2"
Maximum width w/extensions	4 m	13' 1"
Reduction attachment	700 mm	27.5"

Dimensions			
1	Operating length	5047 mm	16' 6"
	Shipping length	4904 mm	16' 1"
2	Operating width (hoppers lowered)	3180 mm	10' 5"
3	Operating height (beacon)	3415 mm	11' 2"
4	Operating platform height	1313 mm	4' 3"
5	Transport height (canopy retracted)	2645 mm	8' 8"
6	Transport width w/end gates	1938 mm	6' 4"
7	Truck entry width	3150 mm	10' 4"
8	Truck entry height (hopper)	547 mm	21"
9	Hopper length	1993 mm	6' 4"
10	Axle to axle - center drive to front idler	1987 mm	6' 6"





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® C3.3B engine is available in configurations that meet U.S. EPA Tier 4 Final and EU Stage V emission standards, Brazil MAR-1, or emissions equivalent to U.S. EPA Tier 3, EU Stage IIIA, or emissions equivalent to U.S. EPA Tier 2 and EU Stage II.
- Cat 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 (hydrogenated 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 maximum value:

Operator Sound Pressure Level – 87 dB(A) European Directive 2000/14/EC, ISO 11201, EN 500-1, and EN 500-6

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

- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) 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
Adhesive	0.04%
Aluminum	0.09%
Bearing	0.02%
Brass	0.05%
Bronze	0.02%
Ceramic	0.04%
Cloth/paper	0.00%
Copper	0.03%
Fluid	0.16%
Gasket	0.00%
Hose	0.26%
Insulation	0.01%
Iron	5.32%
Mixed: Metal	0.05%
Mixed: Metal-Nonmetal	0.60%
Paint	0.02%
Plastic	2.38%
Rubber	5.10%
Steel	84.42%
Wire/Cable	1.33%
Zinc	0.06%

- 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

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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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