**AP500E**  
Asphalt Paver

**Cat® C4.4 Engine with ACERT® Technology**

<table>
<thead>
<tr>
<th></th>
<th>Gross Power (ISO 14396)</th>
<th>Net Power (ISO 9249)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>106 kW</td>
<td>96 kW</td>
</tr>
<tr>
<td></td>
<td>142 hp</td>
<td>129 hp</td>
</tr>
</tbody>
</table>

**Operating Weights**

<table>
<thead>
<tr>
<th></th>
<th>w/AS2252C</th>
<th>w/AS3251C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15 290 kg</td>
<td>15 520 kg</td>
</tr>
<tr>
<td></td>
<td>33,715 lb</td>
<td>34,220 lb</td>
</tr>
</tbody>
</table>

**Paving Ranges (maximum)**

<table>
<thead>
<tr>
<th></th>
<th>w/AS2252C Screed</th>
<th>w/AS3251C Screed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.50 m - 5.60 m</td>
<td>2.44 m - 6.15 m</td>
</tr>
<tr>
<td></td>
<td>8’ 2” - 18’ 5”</td>
<td>8’ 0” - 20’ 2”</td>
</tr>
</tbody>
</table>
Features
Commercial paving applications require equipment that is powerful, mobile, and equipped with easy-to-use features that minimize handwork and increase job site efficiency; the AP500E meets these objectives and more.

Excellent Power and Mobility
The Cat® C4.4 engine provides excellent power for pushing haul trucks, while the wheeled undercarriage with optional front-wheel assist or all-wheel drive delivers the tractive effort and mobility required on inclines and loose base materials.

Convenient Operation
The Cat material delivery system with independent control of each auger and each conveyor ensures that flow to the screed is smooth and consistent for high quality, good looking mats.

Visibility
Communicating with haul trucks, adjusting mix height in the auger chamber and optimizing run time without running the hopper empty requires good visibility. The AP500E provides clear sight for optimal performance.

Quality Screeds
Whether you prefer screeds with front-mounted extenders or rear-mounted extenders, Cat screeds are easily adjustable and deliver unmatched stability with high quality results.

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Caterpillar continues to lead the industry in highway-class pavers. Reliability, durability, ease of use and simplified service have helped our customers reach production goals and maximize bonus pay. Now Caterpillar is making an imprint on the commercial paving business with the introduction of the new AP500E asphalt paver. This new machine delivers all of the high-production qualities found in larger Cat pavers, in a smaller package. The compact, extremely mobile design is equipped with features that help contractors reach their daily performance objectives on the highway as well as in the parking lot.
Performance

Quality builds long-standing relationships.

Time constraints can lead to substantial stress on paving crews. This is especially true in commercial paving applications since many businesses and homeowners are inconvenienced until the work has been completed. Today’s commercial paving contractors require reliable equipment that gets them in and out quickly with quality results.

Mobility

Mobility encompasses many facets of commercial paving. From the time you leave the shop early in the morning until returning late in the evening, the paver will have been loaded, unloaded and moved around to multiple job sites. The compact, lighter weight design allows contractors to haul the paver along with other necessary job site equipment, maximizing machine transport while minimizing costs.

Visibility

Good visibility promotes efficient operation and mobility around the job site, it also improves mat quality. Providing multiple seating positions, a contoured engine compartment, and a dual-purpose exhaust stack, allows the paver operator to communicate effectively with the screed operators and truck drivers, leading to proper truck exchanges and smooth mix delivery to the screed.

Quick Setup

From streets to parking lots, commercial paving applications require countless starts and stops, making quick adjustments a key component for efficient operation. Features such as upper and lower tow-point indicators, ratio control of the augers and conveyors, power screed controls as well as remote-mounted switches on the extenders help optimize performance and increase production.

Efficient Power

The Cat® C4.4 engine with ACERT® Technology combines the power to push loaded trucks with the fuel efficiency to operate throughout the day. Responsive power is a must in commercial paving. The AP500E utilizes an adjustable electronic speed control that reduces engine speed when the propel lever moves to neutral and then quickly adjusts to high idle when moved from neutral for quick on-demand performance.

Earn Bonus Pay

Increase Profits

Earning bonus pay has become a crucial element in today’s paving environment. Many contractors depend on it when submitting bids. To assist the contractor in achieving the maximum payout, Cat® Dealers offer “Solutions and Services” that make it easier to reach these incentives and add to your bottom line.

Dealer Support

Cat Dealer support is unmatched in the paving industry. We offer around the clock parts and service support that quickly helps you get back to work when unplanned downtime occurs.

Project Support

Our paving experts work with you to assist with pre-planning and technique. They also provide a better understanding of the machines capability, in order to maximize efficiency.

Certified Training

Caterpillar offers machine service training, paver operations training (POT), crew training, and regional seminars that are certified by the International Association for Continuing Education and Training (IACET).
Precise Delivery

Continuous flow leads to better mat quality.

Caterpillar’s material handling system is the most advanced in the paving industry. Automated controls and well-designed components reduce segregation potential and maximize efficiency for higher mat quality.

Precise Mix Delivery

Providing consistent mix delivery ensures that forces against the screed remain constant. A consistent head of material leads to smoother surfaces and higher quality mats. The Cat system utilizes four individual pumps that enable each conveyor and each auger to deliver the exact amount of mix to the screed. The left and right conveyors in addition to the left and right augers are controlled independently ensuring mix demand is met when increasing or decreasing paving widths.

Simplified Control

The Cat delivery system is equipped with ratio control dials and sensors (mechanical or sonic) that signal the augers and conveyors to run faster or slower when changing paving widths, thus keeping the head of material at the set level. So when paving around obstacles the system automatically makes the necessary adjustments for uniform mix delivery and quality mats.

Steady Flow

Eliminating cold-spots and large stone accumulation in the hopper helps prevent segregation. The sloped hopper design, narrow chain guards, independent hopper control, and optional power folding front apron facilitate continuous flow and even delivery, leading to uniform temperatures and ideal conditions for compaction. The independent hopper actuation enables the paver to work closer to vertical barriers such as buildings.

The conveyors are designed with wide slats that are narrowly spaced in order to keep the material moving and the head of material in front of the screed at a consistent level. When changes in conveyor speed are required, delivery to the augers is immediate. By not always running the conveyors at full speed, component wear is significantly reduced.

Running at slower speeds also helps reduce the opportunity for segregation, especially when working with larger stone mixes that have a tendency to segregate.

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Powertrain

Responsive power, smooth ride.
Quick reacting speed control ensures that responsive power is immediately available, while the wheeled undercarriage provides mobility and high speed capability when moving around the job site.

Power You Can Count On
Quiet power and lower emissions ensure minimal job site disturbance, an important feature when working in residential and commercial developments. The C4.4 engine with ACERT Technology is a turbo-charged, four-cylinder, diesel engine that provides a gross power of 106 kW (142 hp) and meets U.S. EPA Tier 3 engine emission requirements.

Excellent Traction
Whether most of your paving applications take place on hard surfaces or soft base, the non-directional 17.5 R25 radial drive tires, and the 330 mm (13”) x 559 mm (22”) solid rubber front steering wheels maximize ground contact for a smooth ride, good flotation, and excellent tractive effort for pushing trucks and working on inclines.

Versatile Speed Control
Mobility and consistent speeds are key to efficient paving operations. The Cat system is equipped with automatic speed control and three propel/steering modes: PAVE, TRAVEL and MANEUVER. The TRAVEL mode provides speeds of up to 16 km/hr (10 mph), enabling the AP500E to be quickly repositioned around the job site. The PAVE mode enables the automatics for mix delivery, while the MANEUVER mode delivers a 0.75 m (2’ 6”) inside turning radius for excellent mobility in tight quarters.

A position sensor located in the left steering cylinder helps maintain consistent travel speeds when making turns by adjusting the drive speed of the propel motors according to the steering angle of the front wheels, leading to better mat quality and less wear on the drive system.

Front-Wheel Assist or All-Wheel Drive Options
The front wheel assist feature provides power to the front bogie wheels for added traction when pushing trucks or working on soft base. The all-wheel drive feature provides power to the front and rear bogie wheels, maximizing tractive effort.

Clean Power
Lower Emissions
The U.S. EPA Tier 3 engine emission requirements dramatically restrict the emission of nitrogen oxide (NOx) and other pollutants. The Cat C4.4 utilizes ACERT Technology to reduce these emissions.

ACERT Technology
ACERT Technology is a series of Caterpillar engineered innovations that provides advanced electronic control, precise fuel delivery and refined air management, resulting in outstanding performance and lower emissions.
Operating Environment

Comfort and visibility increase performance.

Good visibility and low sound levels enable effective communication that leads to smooth truck exchanges and steady material flow. Long hours of operation can take a toll on the crew — that’s why Caterpillar designs operating stations that provide good control, visibility and comfort.

Good Visibility
Keeping operators alert of their surroundings and aware of mix delivery to the hopper and screed is a focus of the operating stations. The five-position swingout stations, tilting consoles and low profile design of the cooling system provide good forward visibility that enables the operator to communicate effectively with the truck driver while monitoring mix in the hopper. The extended stations also provide good joint-matching capability and optimal rearward visibility to the auger chamber. Providing clear views increases job site safety, improves performance and reduces fatigue on the operator.

Comfortable Seating
Maintaining comfort throughout the day can be difficult. Multiple seat adjustments allow the operator to customize weight, height, armrests and backrests to suit their individual needs for day-long productivity. Both stations incorporate cup holders while the right console incorporates a 12-volt power receptacle that supports many communication devices used by today’s paving crews.

Cleaner, Cooler Working Environment
The top-mounted cooling system keeps temperatures of the engine and hydraulic components at optimal operating levels, even in high ambient conditions. The on-demand, variable-speed fan keeps sound levels low while directing exhaust air toward the hopper, away from operators and ground personnel. Doors and access panels are equipped with insulation that not only suppresses sound, it also reduces radiant heat transfer to the operating deck for a more comfortable working environment.

In addition, the fumes extraction system draws air from the conveyor tunnels as well as the auger chamber and directs it through the dual-purpose exhaust stack for improved operator comfort.

Project Planning
Key to Success!

Profitability of commercial paving projects often hinges on the ability of the crew to get the job done quickly. Pre-planning is essential for establishing the best course of action for paving the irregular areas associated with commercial applications. Caterpillar offers many tools to assist the contractor when laying the groundwork for successful completion.

Production Calculator
The interactive production calculator is a computer-based pre-planning tool that is designed to establish a balance between plant output, trucking, paving speed and compaction speed. It also helps calculate the yield per truck and total daily yield.

Asphalt Paver Handbook
Establishing fundamental practices and following a step-by-step process can help produce a smooth surface each time out. The Asphalt Paver Handbook is a pocket-sized guide that provides quick reference and easy insight to proper paver and screed setup.
Operator Controls
Automated operation increases efficiency.

At Caterpillar, we strive to build machines that enable operators to perform at their highest level.

Advisor Display
Providing visual references and planning tools generates operator confidence for better overall job site performance. The Advisor display provides access to a start-up checklist, operator profiles, engine and machine operating speeds, Paving Calculator, and Paving by the Numbers. The system also lists fault codes for machine functions making troubleshooting quick and easy. The display includes many operator friendly features including:

- Automatic engine speed control adjustment
- Engine rpm and temperature monitoring
- Component calibration

Convenient Controls
Quick setup enables crews to optimize performance and fine-tune the paving operation. The dual operating stations provide grouped controls for mix delivery and speed control, maximizing operator efficiency. The stations also maintain a similar layout that allows the operator to quickly move from side to side when working in close proximity to curbs, pillars and other obstacles. Controls that are automated, well labeled, and grouped by function make operation more efficient.

Consistent Paving Speed
Controlling paving speed has a direct effect on mat quality. Erratic speeds generate changes in the head of material and result in open surfaces and bumps in the mat. The Cat speed control dial used in conjunction with the propel lever provides a cruise control type function that ensures consistent speed and smooth mix delivery. Moving the propel lever to full forward ensures that the machine travels at the speed determined by the adjustable dial. Calculating the optimum paving speed based on material delivery rates and the compactors ability to keep pace with the paver leads to higher quality mats. Determining the effective paving speed also helps prevent lengthy stops that can limit compaction capability.

Improve Quality
Prevent Defects
Simple steps and routine procedures can eliminate segregation and optimize mat quality.

Paving By The Numbers
Paving by the Numbers is a guide that enables the crew to accurately setup the paver and screed before paving begins. Proper setup provides a consistent line of pull that allows the screed to rise and fall over irregular graded surfaces. Following a step-by-step process ensures that proper screed setup occurs each time you pull off the joint. Repeatable methods allow operators to produce quality results each time out.

Training Materials
Caterpillar continues to develop training materials that help operators, technicians and supervisory personnel perform more effectively. Understanding Mat Defects is just one example that explains in practical terms what the crew should look for and fundamental solutions to help prevent defects. Caterpillar is determined to help your crew become more knowledgeable. Contact your Cat Dealer today for more information.
Service Features

Quality components last longer, save money.
Maintaining productivity requires durable components that limit wear and extend equipment life.

Quick Resolution
Problem solving has never been easier with the Advisor display and electronic control modules (ECM). The multiple ECMs communicate with the Advisor display. The display lists service codes, providing quick reference. The ECMs are compatible with Cat Electronic Technician and easily connect to a laptop computer for fast technical support. Also, color-coded and numbered electrical wiring makes recognition easier when trying to locate the source of the fault code. Manual overrides located throughout the hydraulic system ensure the machine processes every bit of asphalt should a problem occur. The overrides also simplify troubleshooting procedures by enabling the technician to eliminate functioning systems.

Accessibility is Fundamental
These machines work in harsh environments, therefore, components eventually need to be replaced. Quick access to components and routine service points is fundamental to Cat equipment. The hydraulic system contains grouped pressure test ports and oil sampling ports; no need to break into the circuit and risk contamination. The filters for engine oil, hydraulic oil, fuel, and air are easily accessible, while remote drains simplify collection. Remote grease points for the auger bearings as well as the front and rear conveyor bearings simplify daily service requirements.

Sustainability
Creating sustainable business solutions is on the minds of today’s paving contractors. Caterpillar continues to lead the way in sustainable development by producing components that reduce emissions, conserve resources and last longer; benefits that protect the health of the environment as well as the crew. The following are just a few examples of how Caterpillar continues to promote sustainability.

- Cat C4.4 engine with ACERT™ Technology meets Tier 3 emissions requirements
- Long service intervals including a 500 hr engine oil interval saves resources and money
- Automatic speed control reduces fuel consumption and emissions
- Remote-mounted fluid drains provide clean collection
- Thick steel fabrication leads to durable components and preserves resources

Extend Operation
Plan Ahead
Reduce service costs by planning ahead. Knowing which components need to be serviced and when the machine will need them allows service personnel to make the necessary arrangements to help you save money.

Rebuild Programs
Rebuild programs consisting of in-depth inspections of high wear items can be scheduled with your Cat dealer in the off-season. These programs can prevent unscheduled downtime during the busy paving season.

Machine Tracking Made Easy
The optional Product Link System ensures maximum uptime and minimal repair costs by simplifying the tracking of equipment fleets. The system provides automatic machine location, hour updates, and diagnostic codes that can be used to schedule service requirements at more opportune times.
Versatile Screeds

Stable and easily adjustable.
Rigid supports, reliable heating systems and easily adjustable screed plates make Cat screeds the choice of commercial contractors. Power controls can be easily accessed from the main control panels and from the extenders, allowing personnel to quickly fine tune performance for a tight mat finish. The threaded-bolt screed adjusters simplify leveling and replacement of the screed plates for quick service requirements.

Standard Electric Heat
The Cat electric heat system is a perfect fit for commercial paving applications. Touch-pad technology simplifies operation while thermostatically controlled, multi-zone elements ensure fast heating and even distribution. Picking up and moving to a new starting point is not a concern, the robust system is ready when you need it.

Industrial, Single-phase Generator
The belt-driven generator provides 25 kW of power at 60 to 100 Hz for the electric screed heat and the optional auxiliary power panel. The 7 kW power panel is equipped with six, 120-volt receptacles and one, 240-volt receptacle that provide power for job site lighting, including balloon lights and other work tools.

AS2252C Vers-A-Mat™ Screed
The AS2252C is a 2.5 m (8' 2") vibratory screed that features narrow, front-mounted extenders, CANbus electrical system and electrically heated screed plates. The extenders have 229 mm (9") wide screed plates, making it perfect for commercial applications that require frequent width changes.

Standard Paving Range: 2.5 m - 4.4 m (8' 2" - 14' 5")
Maximum Paving Width: 5.6 m (18' 5") w/bolt-on extensions

AS3251C Extend-A-Mat™ Screed
The AS3251C Extend-A-Mat is a 2.44 m (8') vibratory screed that features rear-mounted extenders, CANbus electrical system, and electrically heated screed plates. Heavy-duty support tubes stabilize the extenders, providing even material flow for high quality results when paving wider than 2.44 m (8').

Standard Paving Range: 2.44 m - 4.75 m (8' - 15' 6")
Maximum Paving Width: 6.15 m (20' 2") w/bolt-on extensions
Customer Support
Proven to increase profits.
Cat Dealers offer the highest level of support available. Whether it’s parts support, application support, or machine support, we offer it. Customer satisfaction continues to be our number one goal!

24 Hour Parts Support
When you need parts, you can rely on the strategically located Cat Dealerships to quickly get you back to work. Cat Dealers utilize a world-wide computer network to find in-stock parts. So when an unplanned downtime occurs, help is just an easy phone call away.

Project Consulting
Contractors from around the world have used our consulting services, whether it’s fine tuning an already efficient operation or training a new crew member, Caterpillar services will help you maximize your effort and make more money. Today’s paving contracts require strict adherence to smoothness and density specifications and many pay bonuses when meeting or exceeding them. Caterpillar project consulting helps contractors achieve quality paving results on every job, every time. Our consultants offer an inclusive environment that is designed to help crews better understand the paving process and help them maximize payout of those challenging performance-based contracts.

Service Training
Service training offers in-depth instruction for technicians, either at Caterpillar training centers or at customer locations. These sessions provide hands-on training in order to provide a better understanding of their machines and the complexities of asphalt compaction.

Interactive Training Materials
Interactive, self-paced training materials incorporate a combination of multimedia graphics, narration, animation and video, making paving operations more profitable and crews more knowledgeable, without the additional travel expenses. Some of the products offered include:

- Fundamentals of Asphalt Paving
- Principles of Paving Operation
- Understanding Mat Defects
- Grade and Slope Operation
- Interactive Production Calculator
- Fundamentals of Asphalt Compaction

Crew Training
We Bring It To You
We help each crew member understand what their role is and how it effects the paving operation. Providing this type of understanding not only improves efficiency and quality, it also increases your profit.

Paver Operator Training (P.O.T.)
Paver operation training is a structured course that emphasizes the fundamentals of asphalt paving. The training offers a mix of classroom and hands-on training, with hands-on training making up most of the time spent.

Paving Operations Seminars (P.O.S.)
Regional Paving Operations Seminars offer localized training sessions at a reasonable cost. Participants choose from seminar offerings that match their training needs. Actual job site studies are used in order to focus the student’s attention on real life situations.
### Specifications and Options

#### Dimensions

<table>
<thead>
<tr>
<th>Measure Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Tractor length w/push roller</td>
<td>4.38 m (14' 4&quot;)</td>
</tr>
<tr>
<td>B Length with push roller and AS2252C screed w/walkway up</td>
<td>5.46 m (17' 11&quot;)</td>
</tr>
<tr>
<td>C Tractor length with push roller and AS2252C screed</td>
<td>5.80 m (19')</td>
</tr>
<tr>
<td>D Length with push roller and AS3251C screed</td>
<td>6.11 m (20')</td>
</tr>
<tr>
<td>E Transport width with screw end gates (hopper raised)</td>
<td>2.72 m (8' 11&quot;)</td>
</tr>
<tr>
<td>F Transport width without screw end gates (hopper raised)</td>
<td>2.50 m (8' 2&quot;)</td>
</tr>
<tr>
<td>G Wheel gauge width (outside to outside)</td>
<td>2.49 m (8' 2&quot;)</td>
</tr>
<tr>
<td>H Operating width (hopper lowered)</td>
<td>3.31 m (10' 10&quot;)</td>
</tr>
<tr>
<td>I Hopper length</td>
<td>3.20 m (10' 6&quot;)</td>
</tr>
<tr>
<td>J Transport height with muffler, fumes stack and seat lowered</td>
<td>3.84 m (12' 7&quot;)</td>
</tr>
<tr>
<td>K Deck Height</td>
<td>1.78 m (5' 10&quot;)</td>
</tr>
</tbody>
</table>

#### Weights

- **AP500E (Tractor only)**: 12 590 kg (27,760 lb)
- **AP500E w/AS2252C**: 15 290 kg (33,715 lb)
- **AP500E w/AS3251C**: 15 520 kg (34,220 lb)

#### Powertrain

- **Cat C4.4 Engine (Gross Power)**: 106 kW (142 hp)
- **Speeds**
  - Paving: 61 m/min (200 ft/min)
  - Travel: 16 km/hr (10 mph)

#### Paving Widths

- **Standard w/AS2252C**: 2.50 m - 4.40 m (8' 2" - 14' 5")
- **Standard w/AS3251C**: 2.44 m - 4.75 m (8' - 15' 6")
- **Maximum w/AS2252C**: 5.60 m (18' 5")
- **Maximum w/AS3251C**: 6.15 m (20' 2")
- **Maximum Paving Depth**: 305 mm (12")

#### Miscellaneous

- **Fuel Tank Capacity**: 189 L (50 gal)
- **Hopper Capacity (including tunnels)**: 6.2 m³ (219 ft³)
- **Electrical System**: 24 V, 75A alternator
- **Generator Size**: 25 kW

#### Optional Equipment

- Auger and Mainframe Extensions
- Auxiliary Power Panel
- Cut-Off Shoe
- Decelerator Pedals
- Ecological Washdown System and Hose Reel
- Feeder Sensors (Mechanical or Sonic)
- Front Wheel Assist/All-Wheel Drive
- Grade and Slope Controls (Cat/Topcon)
- Leveling Devices
- Lights (Working or Roading)
- Oscillating Push Roller
- Power Folding Front Apron
- Power Mainframe Extensions
- Product Link
- Screed Extensions
- Tow-point Indicators (Upper)
- Truck Hitch
- Umbrella
- Up-time Kit
- Warning Beacon
- Wide Width Paving Packages