



# Cat<sup>®</sup> AP455

## Asphalt Paver

The Cat<sup>®</sup> AP455 Mobil-trac<sup>™</sup> Asphalt Paver delivers excellent traction and mobility as-well-as, easy set-up, and a wide paving range, making it the perfect fit for urban streets, parking lots, rural roads and many other small to intermediate-type applications.

### Compact Size With Big Opportunities

- The compact size and small footprint simplify maneuverability in tight spaces for efficient work in urban-type applications
- Tight 90° turning capability enables the paver to rotate and cover tracks on a return paving pass
- Standard paving range utilizing the SE47 V screed is 2.4 m - 4.7 m (8' - 15'6") with a maximum width of 6.1 m (20')
- Standard paving range utilizing the SE47 FM screed is 2.4 m - 4.7 m (8' - 15'6") with a maximum width of 5.9 m (19' 6")
- Standard paving range utilizing the SE47 VT screed is 2.4 m - 4.7 m (7' 10" - 15' 4") with a maximum width of 6.0 m (19' 8")
- Paving depths up to 300 mm (12") supports aggregate paving applications

### Transport Made Easy

- Machine weight of 14.3 mt (31,539 lb) paver and screed combination enables easy transport on a variety of trailer types
- Length of less than 5.5 m (18' 1") and width of 2.5 m (8' 2") when equipped with SE47 FM screed and optional folding end gates, accommodates machine transport without special permits.
- The front-loading angle of 18° and high front bumper clearance reduces the need for additional blocking when loading onto various trailer designs
- Raising or retracting the canopy is fast and easy with both electric or manual options available
- Front, middle, and rear tie-down locations make securing the paver efficient for quick travel to the next job site

### Exceptional Mobility With Fast Travel Speed

- Mobil-trac<sup>™</sup> undercarriage provides exceptional mobility, outstanding traction, and fast travel speeds for unmatched maneuverability around the job site
- Counter-rotating tracks provide excellent maneuverability in tight quarters
- Self-tensioning accumulators, center guide blocks, and rugged internal belt cables help ensure durability
- Rubber-coated components help shed asphalt and prevent accumulation
- Efficient track plow design pushes material away from the tracks and helps eliminate cold patches caused by track compression

### Smooth Material Flow

- Single amplitude tamper system with variable frequency screed plate vibration delivers excellent material flow and tight mat textures
- Low truck entry height and short front apron enhances material flow while simplifying clean-out
- Feeder system design with 355 mm (14") diameter augers provides consistent material flow across the screed for efficient flow at both narrow and wide paving widths
- Narrow auger chamber keeps material moving and helps eliminate stagnate patches
- Independent control of each material feed sensor, simply turn off the sensor for manual proportional feed control



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## More Comfort

- Optional ventilation system 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 40° beyond the platform for good visibility to curbs and obstacles
- Optimized height and integrated exhaust provide unobstructed visibility around the machine
- Optional screed and paver mounted umbrellas offer protection from direct sunlight
- 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

- High-definition, touchscreen displays with adjustable brightness control for all types of lighting conditions, including direct sunlight
- New touch screen operating display with simplified menu structures, intuitive graphics, and short-cut keys help simplify machine adjustments
- Single-touch functions from main screen include screed heat, wash-down system, vibratory activation, ventilation system, and the accessory panel
- Cat® Grade Control or Basic Grade Control options available
- Operating displays can be tailored to specific language requirements with multiple options available
- Wash-down system includes level indication

## Cat Electronics

- Cat Electronic Control Modules (ECM) and Electronic Technician (ET) compatibility simplifies diagnostics and trouble-shooting procedures
- Dedicated auto reset circuit breaker for material sensors

## Low Owning and Operating Costs

- Durable Cat C3.6 engine provides 90 kW (120 hp) of power with variations that meet U.S. EPA Tier 4 Final and EU Stage V emission standards, or UN ECE R96 Stage IIIA emission standard, equivalent to U.S. EPA Tier 3 and EU Stage IIIA
- Single source supplier of Cat engines and machine parts helps maximize uptime
- Exclusive Eco-mode and Automatic Engine Speed Control reduce fuel consumption and lower sound levels for better comfort and communication
- Conveyor bed plates and chain guards designed to minimize labor requirements and provide lower cost replacement
- Maintenance-free high torque motors reduce service requirements for the auger and conveyor drive systems

## 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
- Remote flash for easy software updates
- Scheduled maintenance and Scheduled Oil Sampling notification
- Remote disable deactivates the engine for enhanced security

## 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 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
<b>OPERATING ENVIRONMENT</b>		
Canopy – hydraulic lift, manual		✓
Canopy – hydraulic lift, power		✓
Deceleration pedal		✓
Heated Seat		✓
Single sliding console	✓	
Steering guide	✓	
Steering – friction		✓
Steering – spring return	✓	
Umbrella – tractor or screed		✓
Ventilation system		✓
Side shields		✓
Windshield – requires canopy		✓
<b>TECHNOLOGY</b>		
Cat® Grade Control		✓
Basic Grade Control		✓
Product Link™ Elite 643 (cellular)	✓	
Product Link Elite 683 (cellular/satellite)		✓
<b>POWERTRAIN</b>		
Ballast – front weights		✓
Cat C3.6 – four-cylinder	✓	
Cooling fan – variable speed	✓	
Mobil-trac™ belt – smooth belt	✓	
<b>ELECTRICAL SYSTEM</b>		
1400 CCA battery – maintenance free	✓	
150-amp alternator	✓	
12-volt charging system	✓	
Automotive-type fuse system	✓	
Auto-reset breaker for material feed sensors	✓	
Cat Electronic Technician (Cat ET)	✓	

	Standard	Optional
<b>MATERIAL DELIVERY</b>		
Auger extensions – 0.15 m (6")	✓	
Auger extensions – 0.46 m (1.5')		✓
Mainframe extensions – power		✓
Mainframe extensions – manual		✓
Material feed sensors – contact	✓	
Material feed sensors – sonic		✓
Push-roller – adjustable	✓	
Tamper bar system		✓
Wash-down pump and reel		✓

	Standard	Optional
<b>SERVICE AND MAINTENANCE</b>		
Hydraulic oil – Cat® HYDO™ Advanced	✓	
Remote access drains	✓	
Remote flash	✓	
Service repair kits	✓	
Sampling ports for Scheduled Oil Sampling (S-O-S <sup>SM</sup> )	✓	
Sight Gauges – engine coolant, hydraulic oil	✓	

	Standard	Optional
<b>SAFETY</b>		
Alarm, back-up	✓	
Horn, warning (front & rear)	✓	
Lights – LED Working	✓	
Lights – LED Rooding		✓
Mirror package	✓	
Warning beacon – LED		✓

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## Technical Specifications

### Power Train

Engine model	Cat C3.6	
Engine power @ 2200 rpm (ISO 14396-2002)	90 kW	120 hp
<b>Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.</b>		
Engine model	Cat C3.6	
Engine power @ 2200 rpm (ISO 14396-2002)	90 kW	120 hp
<b>Meets UN ECE R96 Stage IIIA emission standard, equivalent to U.S. EPA Tier 3 and EU Stage IIIA</b>		
Speed – paving	61 m/min	200 ft/min
Speed – travel	11 km/hr	7 mph

### Machine Weight

Paver only (shipping) – vibratory screed	11 266 kg	24,837 lb
Paver only (shipping) – tamper screed	11 604 kg	25,582 lb
w/SE47 V screed (operating)	14 194 kg	31,292 lb
w/SE47 FM screed (operating)	14 303 kg	31,533 lb
w/SE47 VT screed (operating)	14 929 kg	32,913 lb
<i>Operating weights are approximate and include coolant, lubricants, full fuel tank, 75 kg (165 lb) operator, and grade control components. In addition, operating weights with the tamper bar screed also include canopy and ballast.</i>		

### Service Refill Capacities

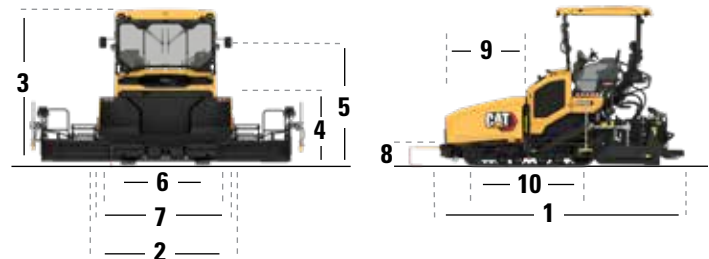
Maximum throughput capacity	774 Tonnes	853 US Tons
Hopper capacity	5.8 m <sup>3</sup>	205 ft <sup>3</sup>
Fuel Tank	200 L	53 gal
Cooling System	24 L	6.3 gal
Engine Oil	11 L	2.9 gal
Hydraulic Tank	121 L	32 gal
DEF Tank <i>Tier 4 Final, EU Stage V only</i>	19 L	5 gal
Washdown Spray Tank	32 L	8.5 gal

### Paving Range

<b>SE47 V</b>		
Standard range	2.4 m - 4.7 m	8' - 15' 6"
Maximum width w/extensions	6.1 m	20'
<b>SE47 FM</b>		
Standard range	2.4 m - 4.7 m	8' - 15' 6"
Maximum width w/extensions	5.9 m	19' 6"
<b>SE47 VT</b>		
Standard range	2.4 m - 4.7 m	7' 10" - 15' 4"
Maximum width w/extensions	6.0 m	19' 8"

### Dimensions

1	Operating length – SE47 V screed	5782 mm	19'
	Shipping length – SE47 V screed	5526 mm	18' 2"
1	Operating length – SE47 FM screed	5730 mm	18' 10"
	Shipping length – SE47 FM screed	5510 mm	18' 1"
1	Operating length – SE47 VT screed	5811 mm	19' 1"
	Shipping length – SE47 VT screed	5585 mm	18' 4"
2	Operating width (hoppers lowered)	3281 mm	10' 9"
3	Operating height (beacon)	3275 mm	10' 9"
4	Operating platform height	1655 mm	5' 5"
5	Transport height (steering wheel)	2814 mm	9' 3"
6	Transport width – SE47 V	2590 mm	8' 6"
	Transport width – SE47 FM, folding end gate	2500 mm	8' 2"
	Transport width – SE47 VT	2550 mm	8' 4"
7	Truck entry width	3161 mm	10' 4"
8	Truck entry height (hopper)	567 mm	22"
	Truck entry height (apron)	525 mm	21"
	Ground clearance	210 mm	8"
9	Hopper length	1803 mm	5' 11"
10	Axle to axle - center drive to front idler	2533 mm	100"
	Auger diameter	355 mm	14"



## 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](http://www.caterpillar.com/en/company/sustainability.html).

### ENGINE

- The Cat® C3.6 engine is available in configurations that meet U.S. EPA Tier 4 Final and EU Stage V emission standards, or UN ECE R96 Stage IIIA emission standard, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat U.S. EPA Tier 4 Final and EU Stage V 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
- Cat engines meeting UN ECE R96 Stage IIIA, 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 (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.*

*\*\* 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 or EU Stage V, and tamper bar screeds:

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

With cooling fan speed at 70% of maximum value, engines meeting UN ECE R96 Stage IIIA, equivalent to U.S. EPA Tier 3 and EU Stage IIIA, and tamper bar screeds:

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 – 103 dB(A) European Directive 2000/14/EC, European Directive 2005/88/EC, ISO 3744, EN 500-1, and EN 500-6

- When equipped with vibratory only screeds, sound power levels are 1 dB (A) lower 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





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