



Cat[®] AP455

Steel Track Asphalt Paver

The Cat[®] AP455 Steel Track 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 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 15.6 mt (34,341 lb) paver and screed combination enables easy transport on a variety of trailer types
- Length of less than 5.6 m (18' 4") and width of 2.55 m (8' 4") accommodates machine transport without special permits in many regions
- When equipped with 225 mm (9") extensions, transport width is 3 m (10') and paving width extends to 5.1 m (16')
- The front-loading angle of 17° 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

- Steel track undercarriage provides exceptional mobility, outstanding traction, and smooth travel for unmatched maneuverability around the job site
- Counter-rotating tracks provide excellent maneuverability in tight quarters
- Automatic track tensioning system, double carrier rollers and track guide plates help ensure the tracks are properly aligned and tensioned to provide smooth travel
- Triple grouser track shoes with profiled polyurethane pads provide strength and durability while also delivering smooth travel and minimal base disturbance on uneven surfaces
- Efficient track plow design pushes material away from the tracks and helps eliminate density variations caused by track compression

Smooth Material Flow

- Variable speed, 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. The Cat 3.6 engine also meets Brazil MAR-1 and UN ECE R96 Stage IIIA emission standards, 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 SOS 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
OPERATING ENVIRONMENT		
Canopy – hydraulic lift – manual		✓
Canopy – hydraulic lift – power		✓
Deceleration pedal		✓
Heated Seat		✓
Single sliding console	✓	
Steering guide	✓	
Umbrella – tractor or screed		✓
Ventilation system		✓
Side shields		✓
Windshield – requires canopy		✓
TECHNOLOGY		
Cat® Grade Control		✓
Basic Grade Control		✓
Product Link™ Elite 643 (cellular)	✓	
Product Link Elite 683 (cellular/satellite)		✓
POWERTRAIN		
Ballast – front weights		✓
Cat C3.6 – four-cylinder	✓	
Cooling fan – variable speed	✓	
ELECTRICAL SYSTEM		
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
MATERIAL DELIVERY		
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
SERVICE AND MAINTENANCE		
Hydraulic oil – Cat® HYDO™ Advanced	✓	
Remote access drains	✓	
Remote flash	✓	
Service repair kits	✓	
Sampling ports for Scheduled Oil Sampling (S-O-S SM)	✓	
Sight Gauges – engine coolant, hydraulic oil	✓	

	Standard	Optional
SAFETY		
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
<i>Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.</i>		
Engine model	Cat C3.6	
Engine power @ 2200 rpm (ISO 14396-2002)	90 kW	120 hp
<i>Meets Brazil MAR-1 and UN ECE R96 Stage IIIA emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.</i>		
Speed – paving	61 m/min	200 ft/min
Speed – travel	6 km/hr	3.7 mph

Machine Weight

Paver only (shipping)	12 252 kg	27,011 lb
w/SE47 VT screed (operating)	15 577 kg	34,341 lb
<i>Operating weights are approximate and include canopy, coolant, lubricants, full fuel tank, 75 kg (165 lb) operator, and grade control components.</i>		

Service Refill Capacities

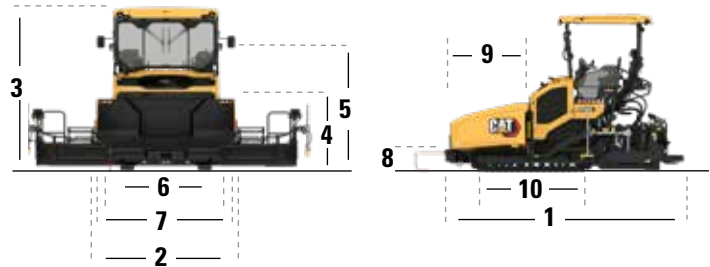
Maximum throughput capacity	774 Tonnes	853 US Tons
Hopper capacity	5.8 m ³	205 ft ³
Fuel Tank	200 L	53 gal
Cooling System	24 L	6.3 gal
Engine Oil	11 L	2.9 gal
Hydraulic Tank	121 L	32 gal
DEF Tank <i>Tier 4 Final, EU Stage V only</i>	19 L	5 gal
Washdown Spray Tank	32 L	8.5 gal

Paving Range

SE47 VT		
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 VT screed	5812 mm	19' 1"
	Shipping length – SE47 VT screed	5586 mm	18' 4"
2	Operating width (hoppers lowered)	3281 mm	10' 9"
3	Operating height (canopy)	3808 mm	12' 6"
4	Operating platform height	1655 mm	5' 5"
5	Transport height (canopy lowered)	2933 mm	9' 7"
6	Transport width	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	2485 mm	98"
	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.

ENGINE

- The Cat® C3.6 engine is available in configurations that meet U.S. EPA Tier 4 Final and EU Stage V emission standards.
- The Cat® C3.6 engine is available in configurations that meet Brazil MAR-1 and UN ECE R96 Stage IIIA emission standards, 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 Brazil Mar-1 or 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 Brazil MAR-1 or 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

- 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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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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