

AP1000E AP1055E Pavers



Cat® C7.1 or C6.6 Engine with ACERT™ Technology *

Gross Power (ISO 14396) 168 kW (225 hp)

* Engine model dependent on market.

Operating Weights with C7.1 Engine

AP1000E w/AS2302C Screed	18 245 kg (40,223 lb)
AP1000E w/AS3301C Screed	18 427 kg (40,625 lb)
AP1000E w/AS4251C Screed	19 508 kg (43,008 lb)
AP1000E w/AS4252C Screed	18 561 kg (40,920 lb)

Paving Ranges (maximum)

w/AS2302C Screed	3.05 m - 6.70 m (10' - 22')
w/AS3301C Screed	3.05 m - 7.38 m (10' - 24' 2")
w/AS4251C, AS4252C Screed	3.05 m - 8.00 m (10' - 26' 4")

Operating Weights with C7.1 Engine

AP1055E w/AS2302C Screed	19 894 kg (43,859 lb)
AP1055E w/AS3301C Screed	20 076 kg (44,260 lb)
AP1055E w/AS4251C Screed	21 158 kg (46,645 lb)
AP1055E w/AS4252C Screed	20 211 kg (44,558 lb)

PERFORMANCE FEATURES

High-production paving applications require equipment that is powerful, reliable and fuel efficient with easy-to-use features.

These pavers are equipped with leading-edge technology that reduces emissions, conserve fuel, automates mix delivery, minimizes tow-point movement, and ultimately produces high quality mats.

The advanced mix delivery system offers features that ensure smooth delivery to the screed, optimizes material utilization, and reduces cleanup while maximizing component life for lower overall operating costs.

Exceptional visibility and comfort offered through dual swingout operating stations, fumes management, and quiet operation, ensure the crew continues its productivity throughout the day.

Whether your choice of paver is equipped with the Mobil-Trac™ undercarriage or wheels, both deliver the speed, mobility, and traction to excel on all types of job sites.

Excellent serviceability provided by visual diagnostics, manual overrides, sight indicators, and clean fluid collection ensure your machine is ready when you are.

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**PAVING ALL DAY.
EVERY DAY.**

MONEY MAKING FEATURES

HIGH PERFORMANCE, RELIABLE AND DURABLE

Delivering the tonnage and producing smooth mats day after day leads to profitability. Combine these features with years of service, comfort, visibility and you have the #1 choice of paving contractors.

LEADING-EDGE TECHNOLOGY

- Tier 4 Interim/Stage IIIB compliant with Cat® C7.1 engine
- Advisor display provides visual reference
- Self diagnostics from multiple ECMs displayed through Advisor
- Cruise control feature matches paving train
- Eco-mode increases fuel efficiency
- Integrated Cat Grade and Slope System
- Screed lock feature prevents settling
- Friction steer (AP1055E) holds steering direction in turns
- Product Link option with VisionLink™ software

ADVANCED MIX DELIVERY

- Independent control of each auger and each conveyor leads to consistent head of material
- 2 or 4 sensor mix delivery system provides flexibility
- Hydraulic mainframe extensions optimize flow
- Reversible augers and conveyors limits spillage
- Rigid screeds deliver excellent stability

EXCEPTIONAL VISIBILITY AND COMFORT

- Dual operating stations swing out for better all-around visibility
- Front-mounted cooling system:
 - directs hot engine air away from crew
 - re-directs fumes cloud that occurs when truck dumping
- Quiet operation supports easy communication





DURABLE MOBIL-TRAC™ UNDERCARRIAGE

- Oscillating bogies minimize tow-point movement for a smoother mat
- Long-belt life leads to low life-time operating cost
- Excellent traction on soft or hard base materials
- Smooth or tread-bar pattern belts available
- Smooth-belt leads to less base disturbance and minimizes handwork
- Speeds similar to wheeled pavers

WHEEL UNDERCARRIAGE

- Tight turning radius
- High travel speeds
- Front wheel assist or all-wheel drive options
- Excellent traction on soft or hard base materials

FUMES MANAGEMENT

- Cooling exhaust, truck dumping surge, and fumes extraction are directed away from crew
- Operator-friendly environment
- Fumes extraction removes vapors from tunnels and auger chamber

CAT® C7.1 ENGINE WITH ACERT™ TECHNOLOGY *

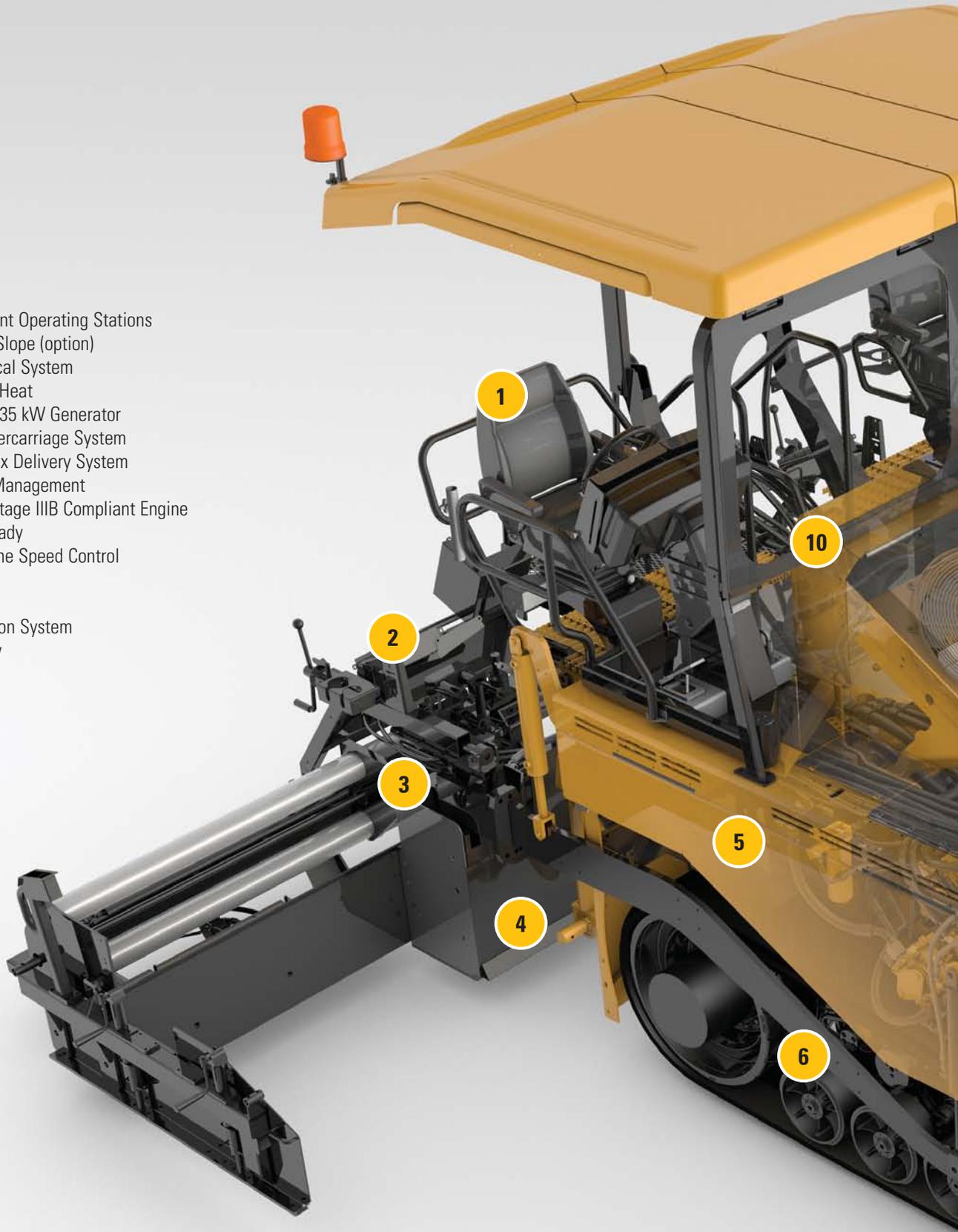
- 168 kW (225 hp) rated power
- Meets U.S. EPA Tier 4 Interim/EU Stage IIIB emissions standards
- Engine power management modifies output
- Automatic engine speed control improves fuel efficiency

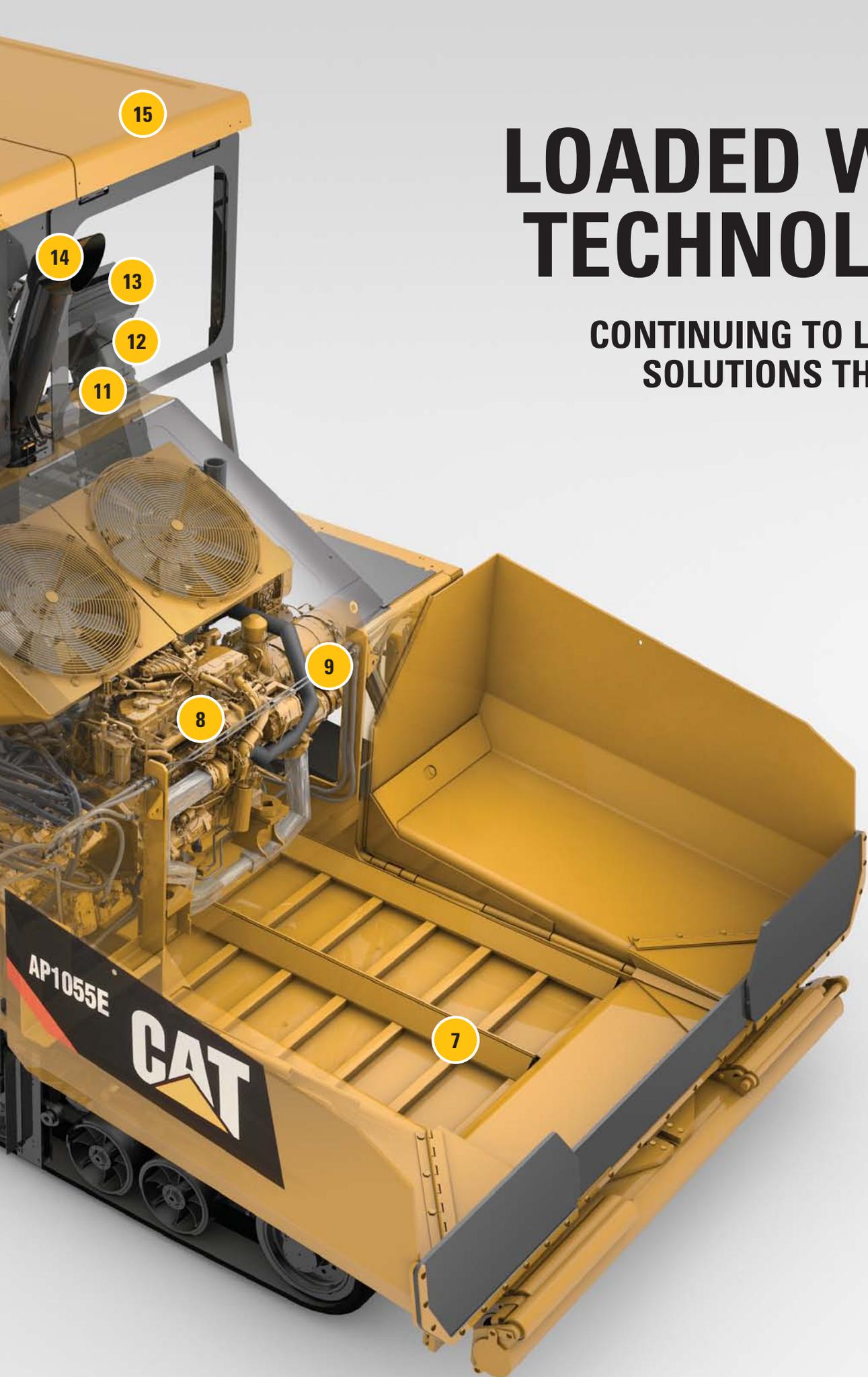
* C6.6 engine utilized for markets that require U.S. EPA Tier 3/EU Stage IIIA emission standards.

EXCELLENT SERVICEABILITY

- Advisor display lists service codes
- Manual overrides on hydraulics
- Visual indicators for routine service checks
- Electronic Control Modules (ECM) monitor system performance
- Long service intervals minimize costs

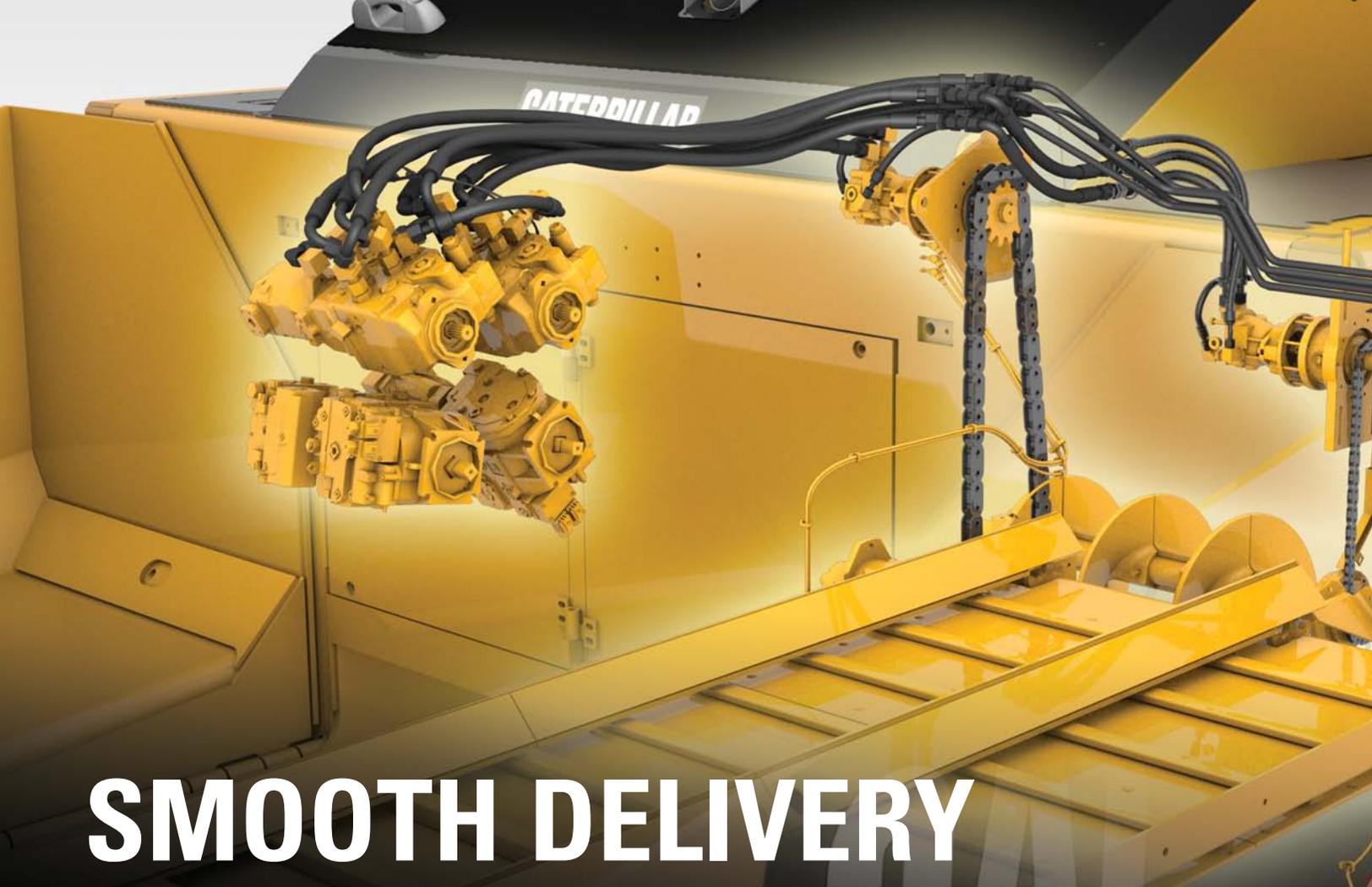
1. Dual Independent Operating Stations
2. Cat Grade and Slope (option)
3. CANbus Electrical System
4. Electric Screed Heat
5. On-board 25 or 35 kW Generator
6. Mobil-Trac Undercarriage System
7. Independent Mix Delivery System
8. Engine Power Management
9. Tier 4 Interim/Stage IIIB Compliant Engine
10. Product Link Ready
11. Automatic Engine Speed Control
12. Eco-Mode
13. Advisor Display
14. Fumes Ventilation System
15. Hardtop Canopy





LOADED WITH TECHNOLOGY

CONTINUING TO LEAD WITH SOLUTIONS THAT WORK.



SMOOTH DELIVERY

CONTINUOUS FLOW LEADS TO BETTER MAT QUALITY.

Automated controls and well-designed components reduce segregation potential, maximize efficiency, and deliver a consistent head of material that leads to better mat quality.

AUTOMATED DELIVERY

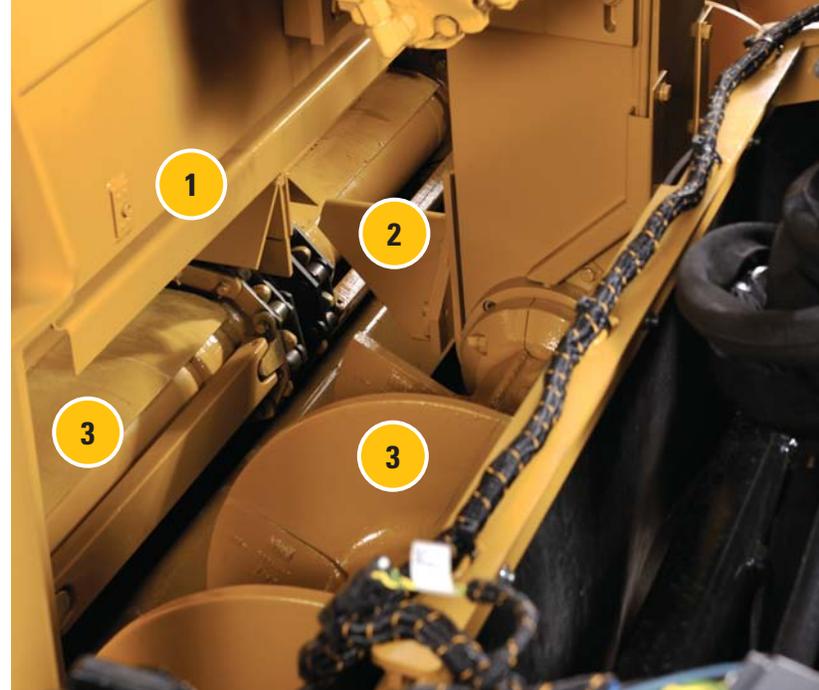
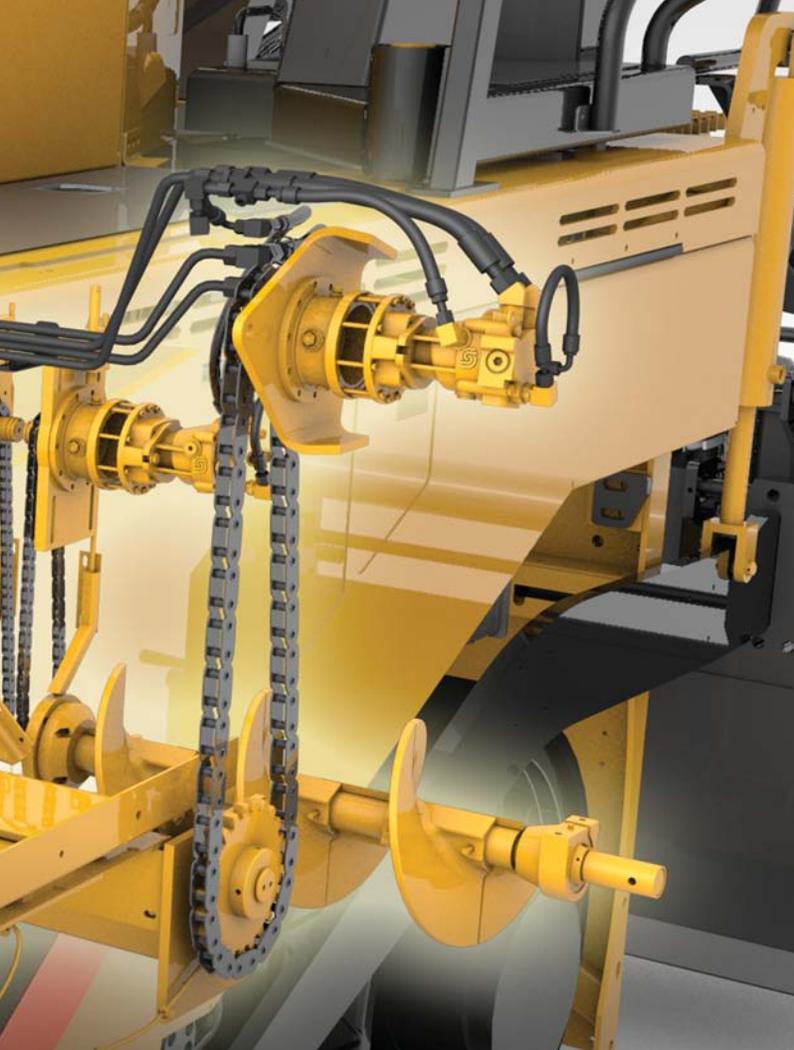
- Four pumps enable individual control of each auger and each conveyor for precise mix delivery to the screed
- Two sensor system with ratio control dials automatically adjusts mix flow when changing paving widths
- Four sensor system utilized with the AS4251C and AS4252C screeds monitor conveyors and augers for precise mix control
- Cat Grade and Slope provides accurate control, optimizes mix utilization, and enables easy setup through a visual display

SMOOTH FLOW

- Wide tunnel and narrowly spaced conveyor bars of 215 mm (8.5") ensure smooth flow to the auger chamber
- 4-position adjustable push-roller conforms to trucking fleet for smoother exchanges
- Reversible augers and conveyors minimize spillage at the end of the paving pass

DURABLE, LONG-LIFE COMPONENTS

- Thick floor plates, heavy-duty chains, and stout conveyor bars deliver lasting performance and lower lifetime operating costs
- Narrow chain guards protect chains and bolt heads for extended long-term performance
- Greaseable bearings with remote fittings flush contaminants away from seals for longer life



1. Fumes extraction system
2. Mix deflector plate
3. Independent control of each auger and each conveyor
4. Narrow chain guard covers
5. Thick conveyor bars
6. Narrow bar spacing – 215 mm (8.5")
7. Heavy-duty conveyor chains
8. Thick floor plates
9. Independent hopper actuation
10. Hydraulic folding front apron (optional)
11. Adjustable push-roller



OPERATING ENVIRONMENT

COMFORT AND VISIBILITY INCREASE PERFORMANCE.

Good visibility enables 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.

DUAL INDEPENDENT OPERATING STATIONS

- Controls move with the operator
- Dual independent stations offer back-up capability
- Stations extend beyond frame for increased all-around visibility
- Operator customization with multiple seat adjustments and tilting consoles
- 12-volt power receptacle, supports communication devices
- Upper and lower tow-point indicators simplify height adjustment for tractor and screed operators
- Cup holders offer convenience

EXCEPTIONAL VISIBILITY AND COMFORT

- Low profile front-mounted cooling system improves forward visibility
- Quiet operation supports easy communication; sound suppression material located throughout the machine
- Tilting consoles conform to operator

FUMES MANAGEMENT SYSTEM

MORE COMFORT FOR YOUR CREW.

The ventilation system draws fumes from the conveyor tunnel as well as the auger chamber and redirects them away from the operator for a more comfortable working environment.

BETTER OPERATING CONDITIONS

- Operator-friendly environment
- Top-mounted cooling system directs fumes and hot air away from crew
- Fumes surge when dumping mix is redirected by the dual cooling fans
- Fumes extraction system removes vapors from the conveyor tunnels and auger chamber





OPERATING CONSOLE

OPERATE WITH CONFIDENCE.

The Advisor display provides visual references, self diagnostics, and planning tools that keep the operator informed for better overall job site performance.

ADVISOR DISPLAY

- Multiple language selections
- Monitor machine conditions, including regeneration status
- Set automatic engine speed control; reduces engine speed when delays occur
- Activate Eco-mode for increased fuel efficiency; engine speed is reduced to 1650 rpm
- Calibrate machine components
- Access service code information
- Access *Paving Calculator*
- Reference *Paving by the Numbers* and start-up checklist
- Store operating preferences for multiple operators
- Set friction steering tension (AP1055E)



Cat® operating consoles utilize positive feedback switches; the feel of fingertip activation promotes operator confidence.

INTUITIVE CONSOLES

- Grouped toggle switches ensure efficiency and performance
- Cruise-control feature maintains paving speed for smoother mats
- Three propel/steering modes: pave, travel, and maneuver
- When utilizing 2-sensor system, ratio control dials automatically adjust mix flow when changing paving widths
- Screed lock function prevents settling, eliminates bumps in the mat



WHEEL UNDERCARRIAGE

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.

EXCELLENT MANEUVERABILITY

- Tight turning radius for quick mobility
- 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
- The oscillating design easily overcomes obstacles, eliminates jarring effects and minimizes tow-point movement



1. Oscillating Bogies
2. Steering Position Sensor
3. Dual Solid Front Steering Wheels
4. Front Wheel Assist
5. All-Wheel Drive
6. Large 18.00 R25 Sand-Rib Drive Tires

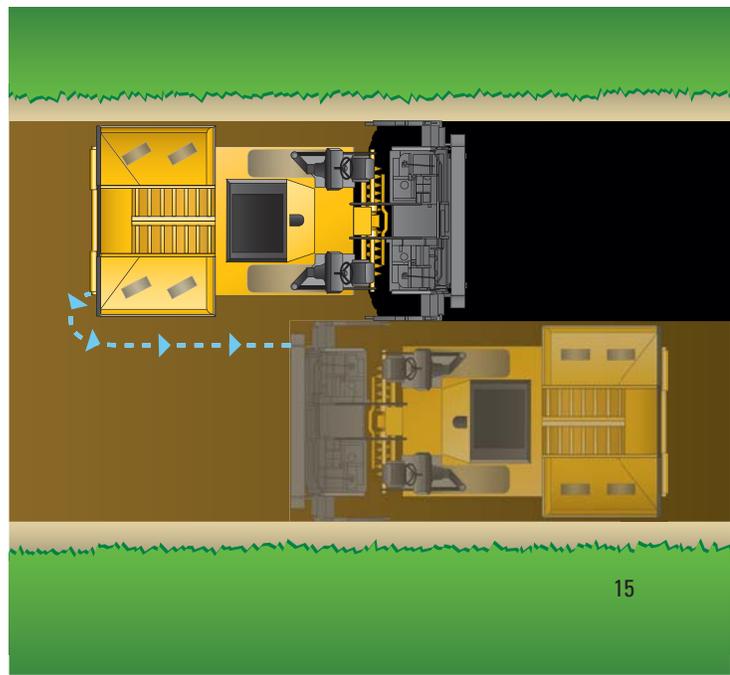
MOBILITY

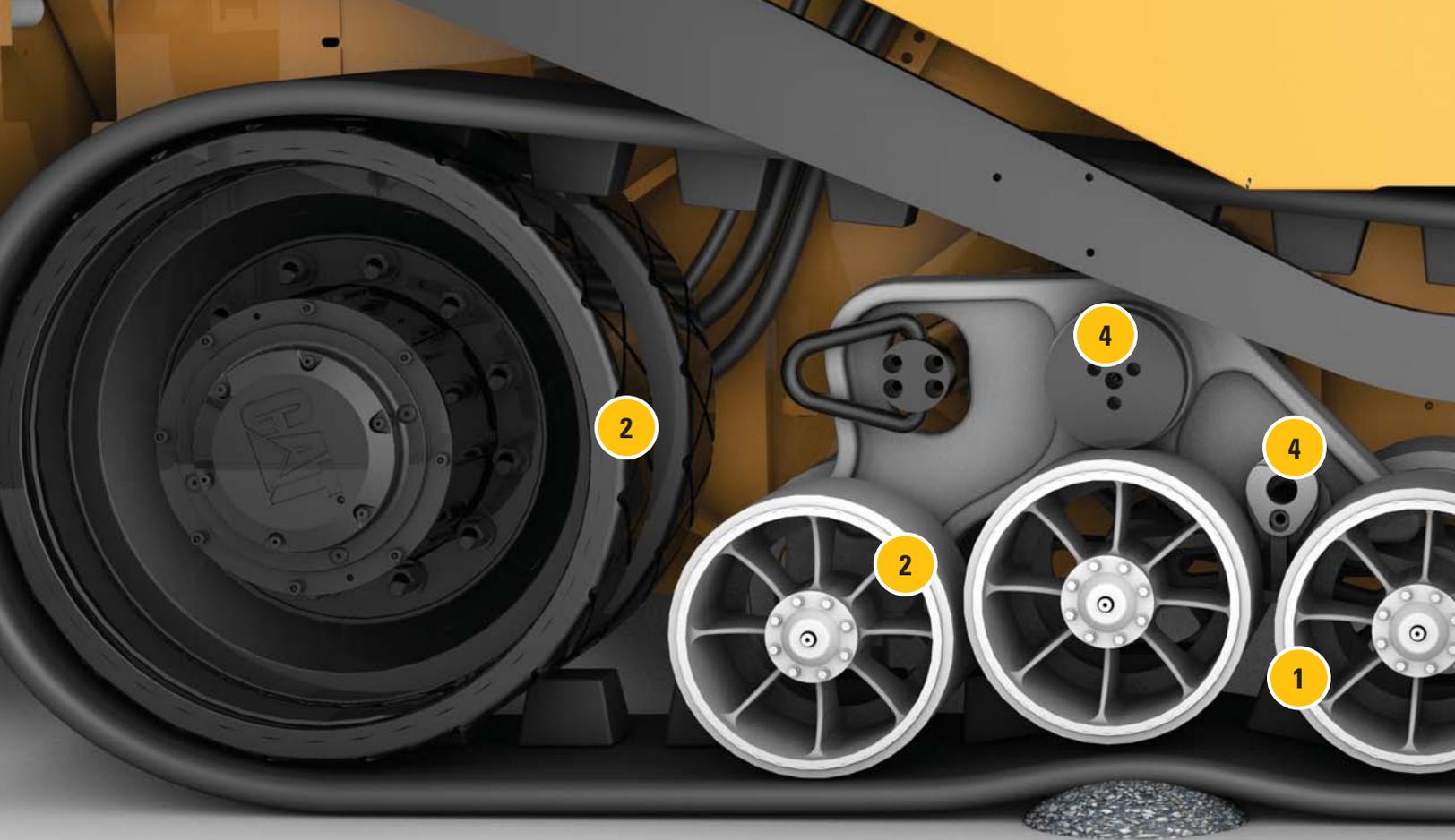
- Pave, Travel and Maneuver modes
- Pave: Improved steering control when paving
- Travel: Speeds of 0 - 20 km/hr (0 - 12 mph)
- Maneuver: Optimizes steering control and delivers an inside turning radius of 0.50 m (1.5 ft)

FRONT WHEEL ASSIST OR ALL-WHEEL DRIVE

- Front wheel assist option provides power to the front bogie wheels for added traction when pushing trucks or working on soft base
- All-wheel drive option provides power to the front and rear bogie wheels, maximizing traction

Inside Turning Radius of 0.50 m (1.5 ft)





MOBIL-TRAC™ UNDERCARRIAGE

EXCELLENT TRACTION, HIGH SPEEDS.

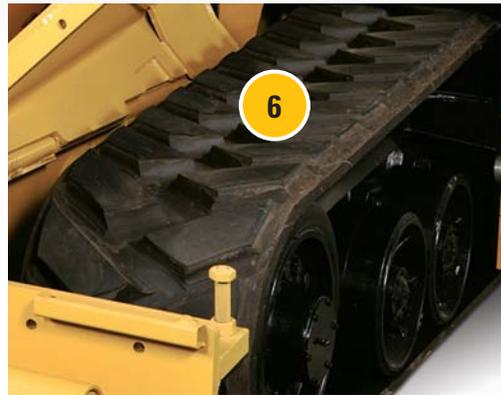
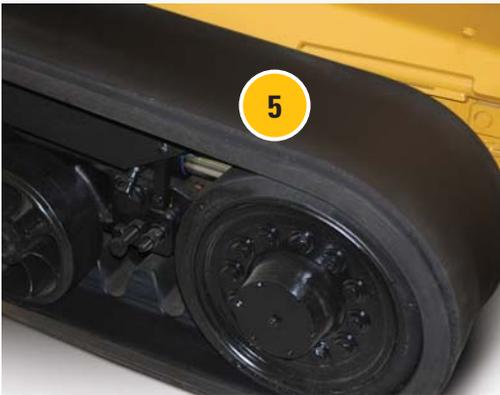
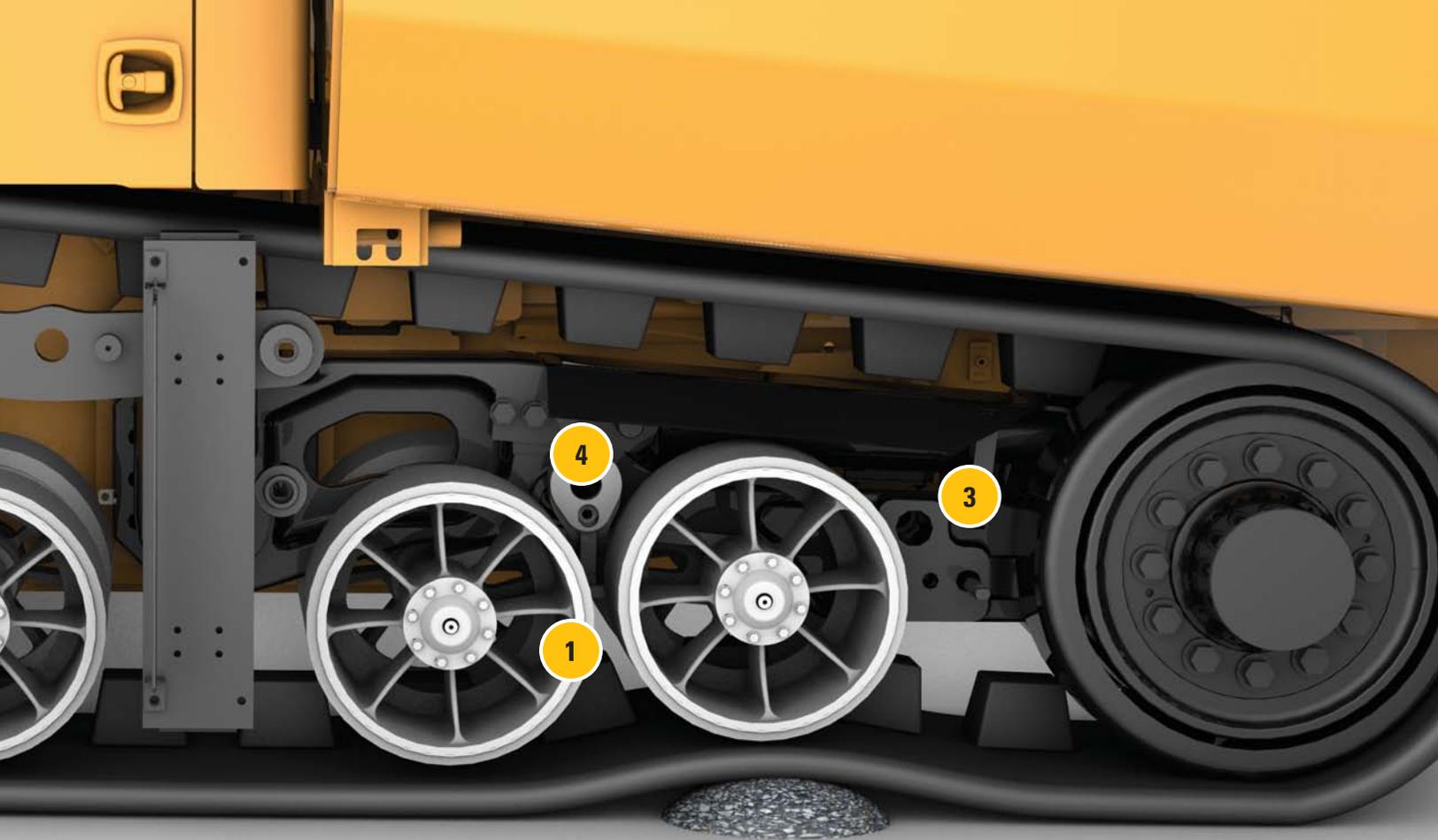
Maintenance-free and unmatched traction in both a smooth or tread-bar style belt; the Mobil-Trac™ undercarriage system provides mobility and high speed capability when moving around the job site.

MOBILITY

- High speed capability; similar to wheeled pavers
- Pave, Travel and Maneuver modes
 - Pave: Improved steering control when paving
 - Travel: Speeds of 0 - 14.5 km/hr (0 - 9 mph)
 - Maneuver: Optimizes steering control and enables the paver to rotate within its own footprint

SMOOTH RIDE

- Oscillating bogie design delivers ride of wheeled paver
- Easily overcomes obstacles, eliminates jarring effects
- Guide lugs keep the tracks centered for reliable performance



1. Oscillating Bogies
2. Rubber-Coated Components
3. Automatic Belt Tensioning
4. Pivot Point
5. Smooth Belt
6. Tread-bar Belt

PERFORMANCE

- Mobil-Trac undercarriage design minimizes tow-point movement
- Front and rear bogie sets crawl over obstacles; maintaining ground contact and minimizing tow-point movement
- Smooth belt performs well on soft base materials and fresh mats
- Tread-bar belt excels on loose paving/transport conditions
- Outstanding traction in any condition, excellent flotation

DURABILITY

- Self-tensioning accumulators, center guide blocks and rugged internal belt cables ensure durability
- Rubber-coated components designed to shed material and prevent accumulation



CLEANER POWER

SELF-ACTIVATING, LOWER EMISSIONS.

U.S. EPA TIER 4 INTERIM/EU STAGE IIIB EMISSIONS STANDARDS

- Reduces oxides of nitrogen by 50 percent from Tier 3/Stage IIIA levels
- Reduces particulate matter by 90 percent from Tier 3/Stage IIIA levels
- Ultra Low Sulfur Diesel (ULSD) fuel is required
 - Sulfur content is reduced to 15 ppm (mg/kg)
 - Bio-diesel up to B20 can be utilized when blended with ULSD
- Engine oil must meet Caterpillar ECF-3, API CJ-4/ACEA E9 specifications
 - Reduced sulfated ash, phosphorus, and sulfur

EMISSIONS REDUCTION TECHNOLOGY

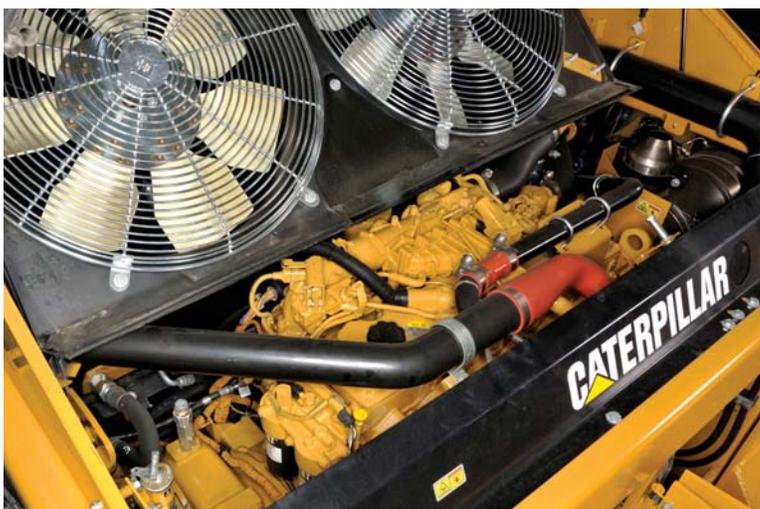
- The Cat C7.1 engine is equipped with a Diesel Particulate Filter (DPF) that traps soot from the exhaust stream. The soot is removed through a process called regeneration, while the ash remains in the filter and must be removed at a required minimum service interval of 4500 hours. The C7.1 engine utilizes two types of regeneration, passive and active.

REGENERATION

HANDS-FREE.

ACTIVE AND PASSIVE REGENERATION

- Passive regeneration occurs during normal load conditions; engine exhaust temperatures are sufficient to remove the soot
- Active regeneration occurs when the diesel particulate filter (DPF) is at an elevated soot level; an integrated regeneration system introduces a small amount of fuel to remove the soot.
- Regeneration occurs during normal idle periods or during operation
- Regeneration does not require operator intervention



1. Diesel Particulate Filter
2. Regeneration Status (Advisor Display)
3. Regeneration Indicator (Right Console)
4. Regeneration Enable/Disable Switch

CAT® C7.1 AND C6.6 ENGINES

POWER YOU CAN COUNT ON.

Durability, reliability and performance combined with lower emissions.

HIGH AMBIENT COOLING SYSTEM

- Standard, high-capacity cooling
- Airflow design draws ambient air across the engine compartment and through the coolers
- Exhaust air exits toward the hopper, providing a cooler engine compartment and cooler operating environment
- Dual variable speed fans are electronically controlled and hydraulically driven to provide on-demand cooling
- On-demand operation reduces engine power demand, lowers sound levels, and increases fuel efficiency



Cat® C7.1



CAT C7.1 WITH ACERT TECHNOLOGY

- Cat C7.1 engine meets U.S. EPA Tier 4 Interim/EU Stage IIIB emissions standards
- Provides 168 kW (225 hp) of power
- Equipped with an automatic regeneration system
- The 7.1 liter engine has a displacement of (427.7 in³) and utilizes the Cat common rail fuel delivery system
- Utilizes ACERT™ Technology; a series of Caterpillar engineered innovations that provide advanced electronic control, precise fuel delivery, and refined air management
- Oil change interval of 500 hours

CAT C6.6 WITH ACERT TECHNOLOGY

- Cat C6.6 engine meets U.S. EPA Tier 3/EU Stage IIIA emissions standards
- Provides 168 kW (225 hp) of power
- The 6.6 liter engine has a displacement of (403 in³) and utilizes the Cat common rail fuel delivery system
- Utilizes ACERT Technology
- Oil change interval of 500 hour



Cat C6.6

SERVICE FEATURES

QUALITY COMPONENTS LAST LONGER, SAVE MONEY.

Maintaining productivity requires durable components that limit wear and extend equipment life.

QUICK RESOLUTION

Trouble-shooting 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 material should a problem occur. The overrides also simplify troubleshooting procedures by enabling the technician to eliminate functioning systems.

- ECMs communicate with Advisor Display
- ECMs compatible with Cat Electronic Technician
- Color-coded and numbered electrical wiring
- Manual overrides help diagnose functioning systems
- Pressure test ports and oil sampling ports simplify diagnosis of the hydraulic system
- Remote-mounted fluid drains deliver clean collection

PLAN AHEAD

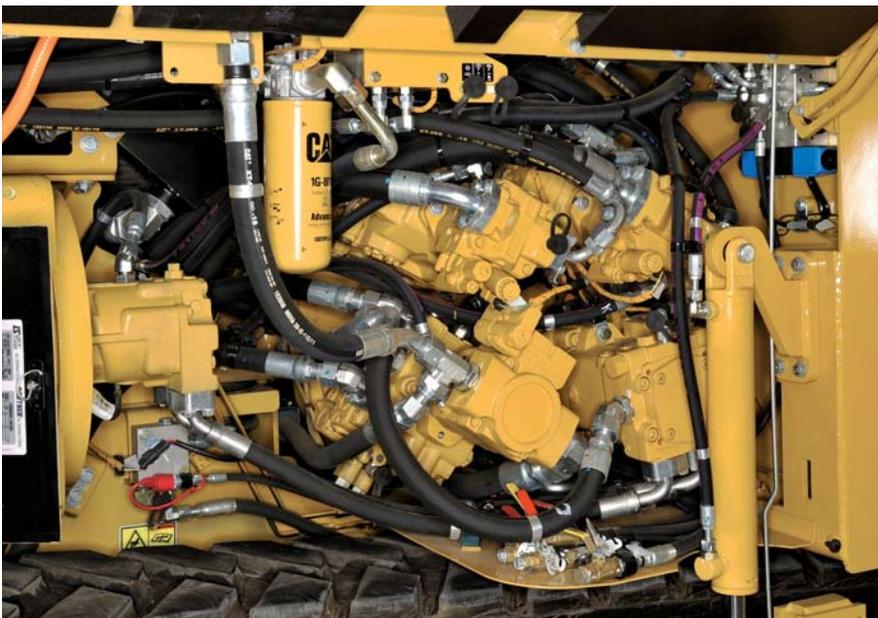
Reduce service costs by planning ahead. Knowing which components need to be serviced and when the machine will need them allows service personnel to make the necessary arrangements to help you save money.

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.

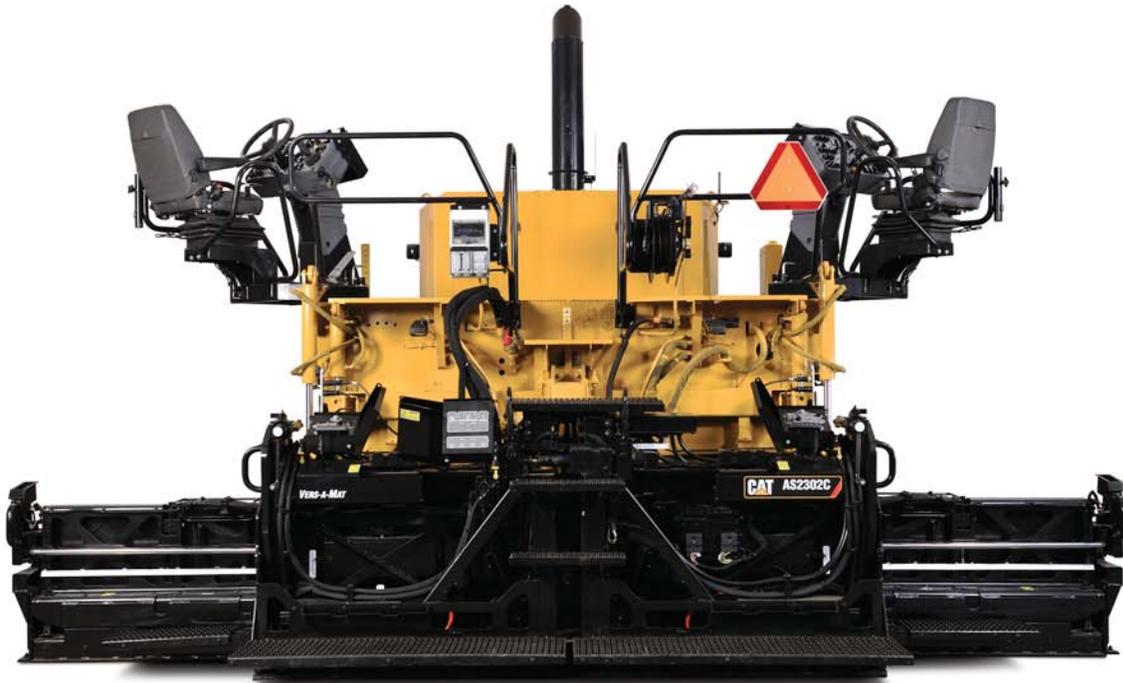
MACHINE TRACKING MADE EASY

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.



AS2302C

VERS-A-MAT™ SCREED



The narrow, quick-reacting extenders make the AS2302C VERS-A-MAT™ a perfect fit for applications that require frequent width changes.

TOP FEATURES

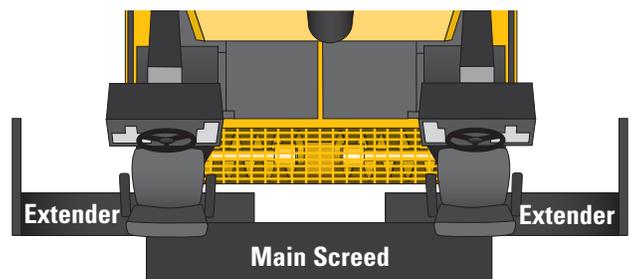
- Front-mounted 229 mm (9") extenders require less mix to maintain the head of material in front of the screed
- Quick-reacting extenders optimize performance around obstacles
- Electrically heated screed plates offer cleaner working environment

APPLICATIONS

- High and low production job sites
- Excels on variable width paving applications
- Parking lots, highways, streets, rural roads, overlays

PAVING RANGES

- Standard Paving Range: 3.05 m - 5.5 m (10' - 18')
- Maximum Paving Width: 6.7 m (22') with bolt-on extensions



AS3301C

EXTEND-A-MAT™ SCREED



Heavy-duty support tubes stabilize the extenders providing even material flow for high quality results on interstates, highways, airports and other high-production paving applications.

TOP FEATURES

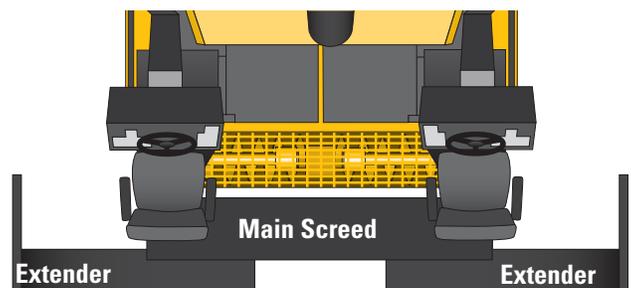
- Rear-mounted extenders allow mix to easily flow out to the end gates when increasing paving widths
- Stable support tubes promote wide width paving
- Electrically heated screed plates offer cleaner working environment

APPLICATIONS

- Mainline paving applications
- Interstates, airports, highways, streets, rural roads, overlays

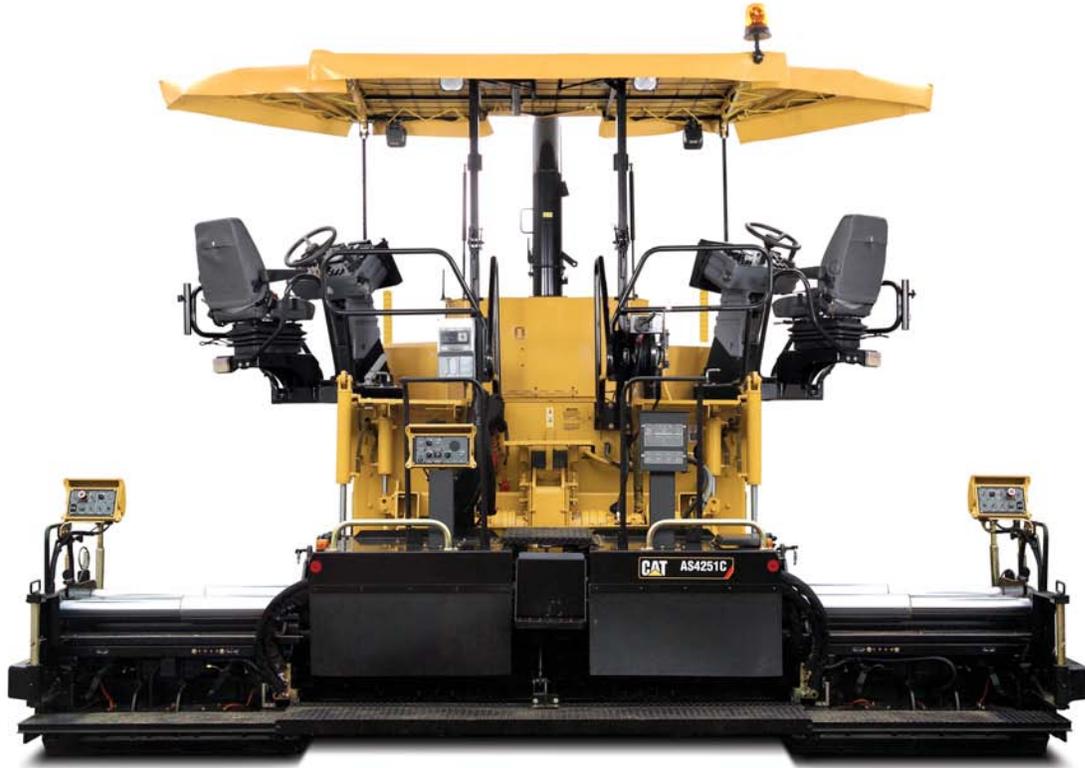
PAVING RANGES

- Standard Paving Range: 3.05 m - 5.94 m (10' - 19' 6")
- Maximum Paving Width: 7.38 m (24' 2") with bolt-on extensions



AS4251C

VIBRATORY AND TAMPER BAR SCREED



Tamper bars combined with vibratory screed plates optimize mat density behind the screed.

TOP FEATURES

- Balanced weight of 4000 kg (8,819 lb)
- Analog control (potentiometer) for tamper speed, vibratory speed, and counterbalance pressure
- Double width hydraulic power extenders
- Tamper bar system delivers an adjustable range up to 1700 rpm with a stroke of 4 mm (0.16")
- Adjustable vibratory screed plate range up to 3,000 vpm
- 400 mm (15") dual main screed plate widths
- 15 mm (0.60") screed plate thickness
- Low profile frame design for good visibility into the auger chamber
- Electric or LPG heated screed plates
- Foldable end gates (option) reduces transport width
- Power crown control (optional)

APPLICATIONS

- Excels on thin lifts and provides the ability to eliminate a compactor due to higher densities behind the screed
- Interstates, airports, highways, streets, rural roads, overlays, reclaimed concrete

PAVING RANGES

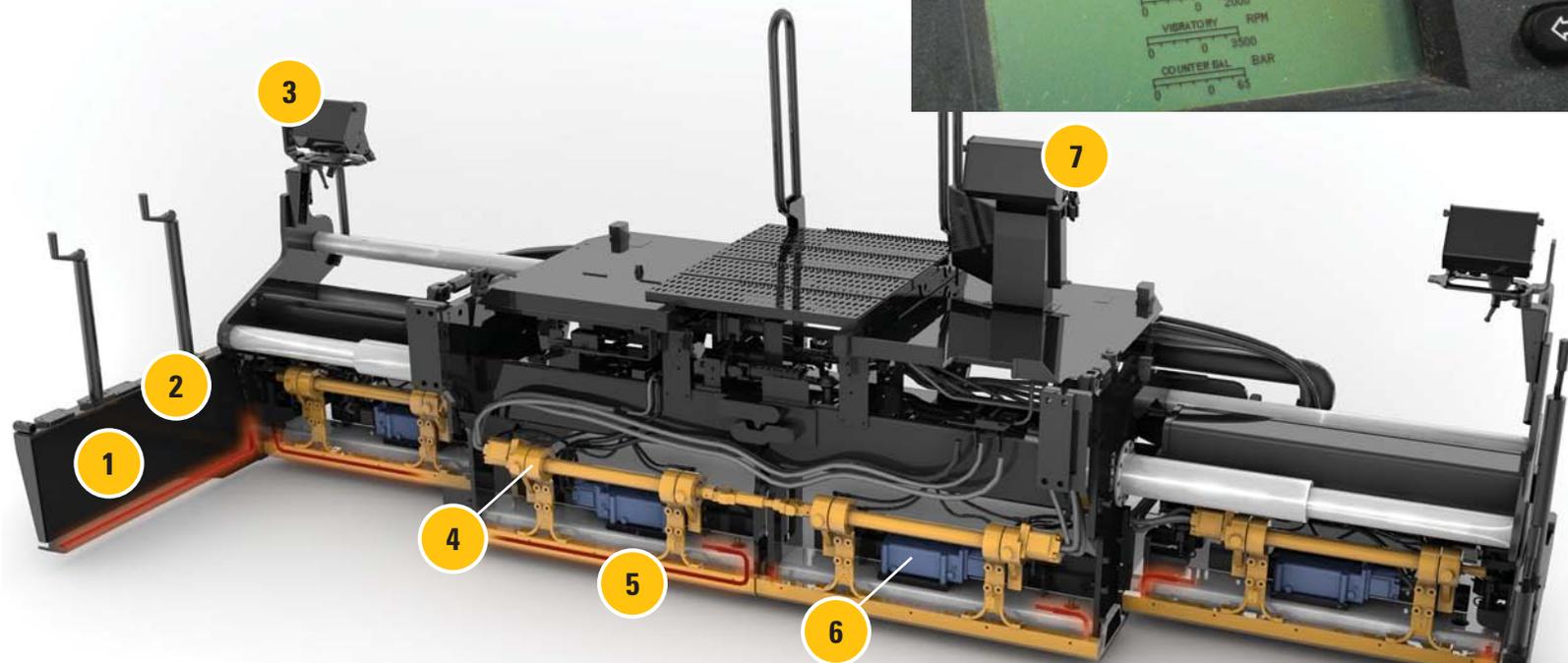
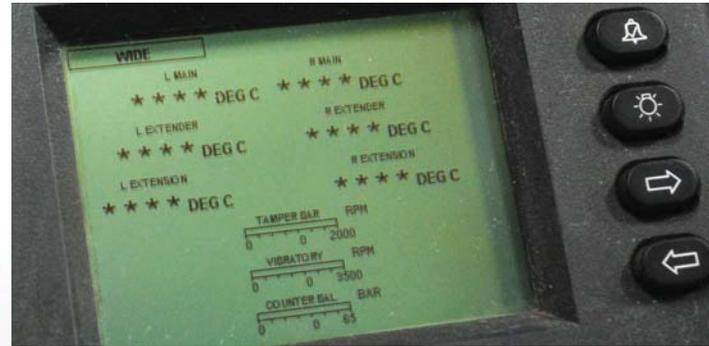
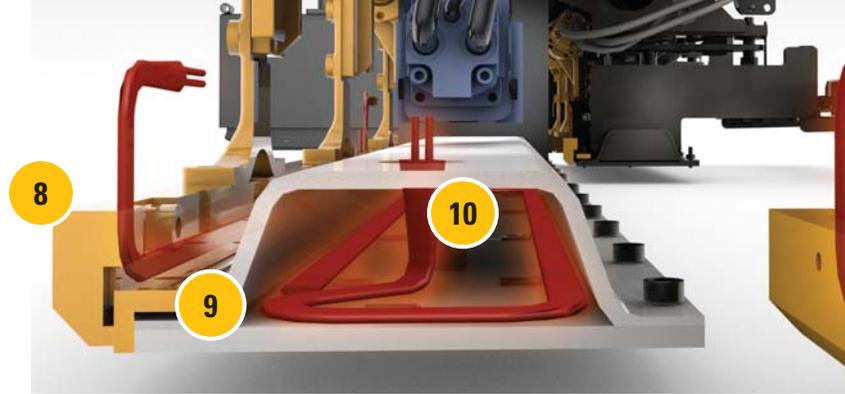
- Standard Paving Range: 3.05 m - 5.5 m (10' - 18')
- Maximum Paving Width: 8.00 m (26' 4")



AS4252C

VIBRATORY AND TAMPER BAR SCREED

1. Heated End Gate (optional)
2. Foldable End Gate (optional)
3. Main Screed Controls
4. Tamper Bar Eccentric Drive
5. Tamper Bar Heating Element
6. Vibratory Drive (Variable Speed)
7. LCD Operating Display
8. Tamper Bar
9. Wear Plate
10. Screed Plate Heating Element



TOP FEATURES

- Balanced weight of 3200 kg (7,055 lb)
- Equipped with LCD display
- Double width hydraulic power extenders
- Tamper bar system delivers an adjustable range up to 1700 rpm with a stroke of 4 mm (0.16")
- Adjustable vibratory screed plate range up to 3,000 vpm
- 330 mm (13") single main screed plate width
- 13 mm (0.50") screed plate thickness
- Electrically heated screed plates and tamper bar deliver uniform heat distribution
- Heated end gates (option) prevent mix buildup
- Power crown control (standard)
- Foldable end gates reduces transport width

SCREED ADVISOR DISPLAY

- Available in multiple languages
- Keeps operator informed of the following:
 - Temperature of each screed section
 - Tamper bar speed
 - Vibratory speed
 - Counter-balance pressure

APPLICATIONS

- Excels on thin lifts, ability to eliminate a compactor due to higher densities behind the screed
- Interstates, airports, highways, streets, rural roads, overlays, reclaimed concrete (RCC)

PAVING RANGES

- Standard Paving Range: 3.05 m - 5.5 m (10' - 18')
- Maximum Paving Width: 8.00 m (26' 4") with bolt-on extensions



WIDE WIDTH PAVING PACKAGES

**VERSATILE SCREED CONFIGURATIONS OPTIMIZE
JOB SITE PERFORMANCE.**

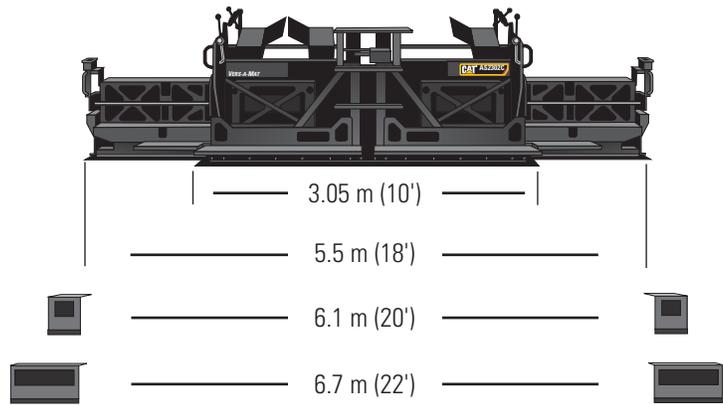
Screed packages contain all the components necessary to achieve the desired paving width and can include: screed extensions, auger extensions, auger support bearings, mainframe extensions and mainframe braces.

VIBRATORY SCREEDS

AS2302C SCREED EXTENSIONS

These extensions are available in 305 mm (1') and 610 mm (2') lengths.

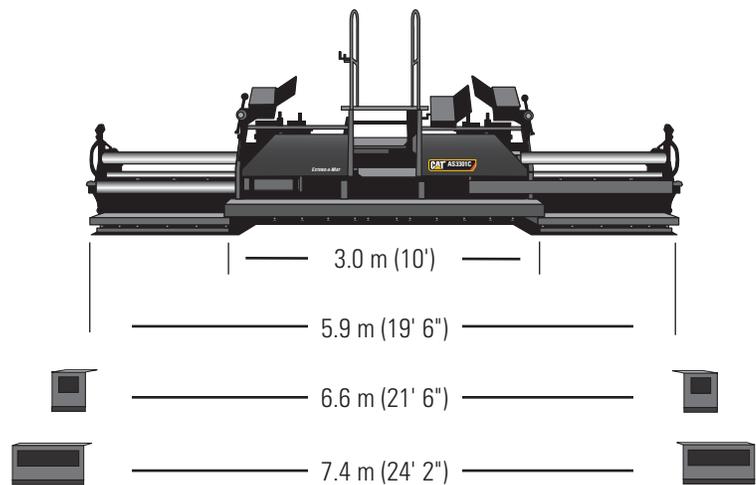
- 305 mm (1') extensions are electrically heated
- 610 mm (2') extensions are electrically heated



AS3301C SCREED EXTENSIONS

These extensions are available in 305 mm (1') and 711 mm (2' 4") lengths.

- 305 mm (1') extensions are electrically heated
- 711 mm (2' 4") extensions are electrically heated with vibration



VIBRATORY AND TAMPER BAR SCREEDS

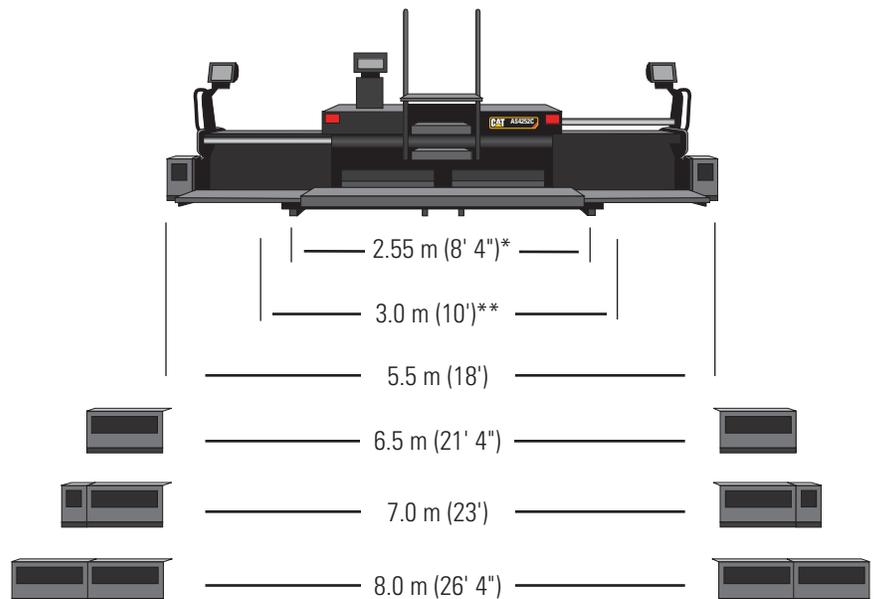
AS4251C AND AS4252C SCREED EXTENSIONS

Bolt-on extensions are available in lengths of 0.25 m (10") and 0.75 m (30"). Quick-connect hydraulic couplings simplify attachment.

- 0.25 m (10") extensions are electrically heated with tamper bars
- 0.75 m (30") extensions are electrically heated with tamper bars and vibration

* Standard paving range is 2.55 m - 5.0 m (8' 4" - 16' 4").

** Standard paving range when utilized on the AP1000E and AP1055E is 3.05 m - 5.5 m (10' - 18').



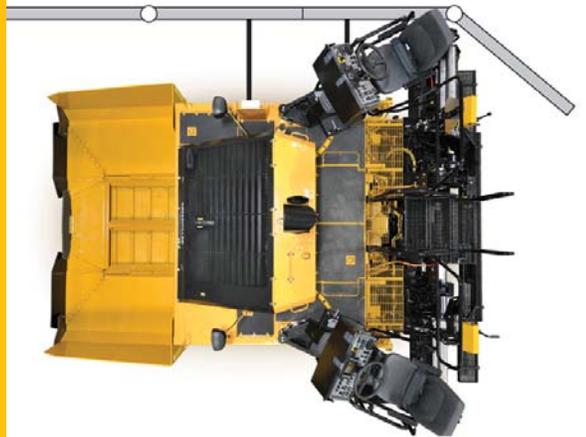


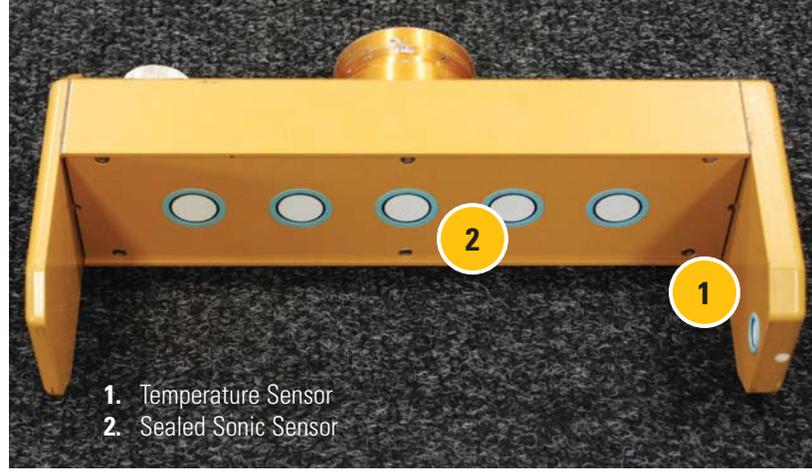
CAT GRADE AND SLOPE SYSTEM

**FACTORY INTEGRATION,
EASIER TO USE, MORE ACCURATE.**

Cat Grade and Slope 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. It is entirely supported by Caterpillar; ensuring the control system and paver are setup to optimize performance and meet job site requirements.

Cat Dealers offer exceptional knowledge of the grade and slope system, as well as paver and screed operation, providing a single source that meets all your paving needs.





GRADE AND SLOPE FEATURES

SINGLE OR DUAL DISPLAYS – EASY VISUALIZATION

- Each LCD display is able to control one or both sides of the screen
- Text-based menus offer multiple languages
- Equipped with brightness and contrast controls for good visibility in various lighting conditions

DURABLE ENCLOSURE

- Swivel capability enables visibility from a various positions
- Heavy-duty design provides overnight protection

SONIC GRADE SENSORS

- Sonic sensor is equipped with five ceramic transducers in each sensor, two readings are discarded, three are averaged
- 457 mm (18") optimal height
- Built-in temperature sensor accounts for temperature variation; sealed, reliable

CONTACTING GRADE SENSORS

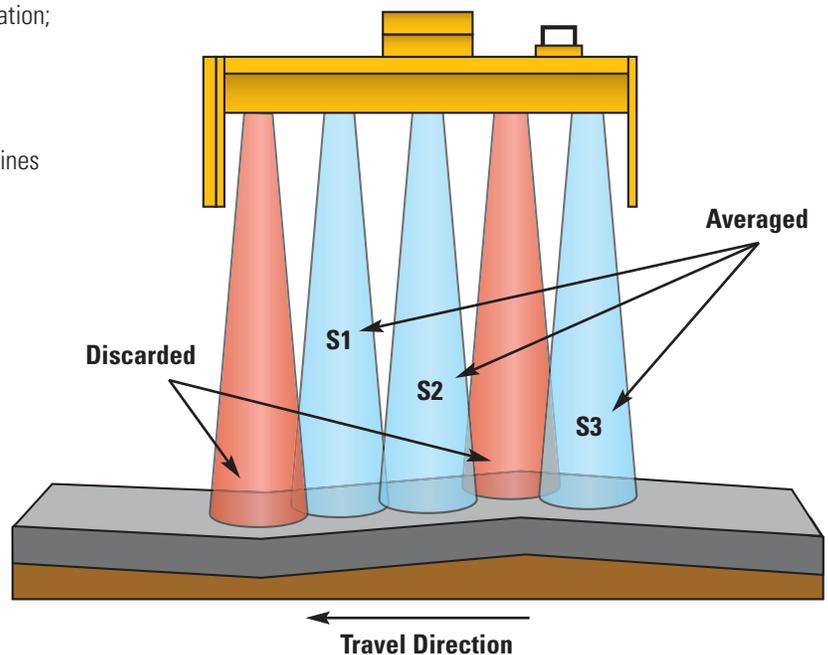
- Two designs; ground contacting ski, wand-type for string lines
- Effective for curbs and joints

SLOPE SENSOR

- Range of ±10 degrees (17.6%)
- Effective on super elevations

SONIC AVERAGING BEAM

- Equipped with up to three sensors; when paving super elevations, the front and rear sensor can be turned off for better control of mat thickness
- Averages total deviations and adjusts tow-point by 1/3 for true averaging; Note: When utilizing two grade sensors, tow-point is adjusted by 1/2 of the total deviation.
- Sensor height can be individually adjusted
- Easily move to the next starting point without disassembly.



$$\frac{S1+S2+S3}{3} = \text{Tow-point Movement (True Averaging)}$$

ADVANCED ELECTRIC SCREED HEAT

TOUCH-PAD TECHNOLOGY WITH MULTI-ZONE HEATING AND EVEN-HEAT DISTRIBUTION.

ELECTRIC HEAT FEATURES

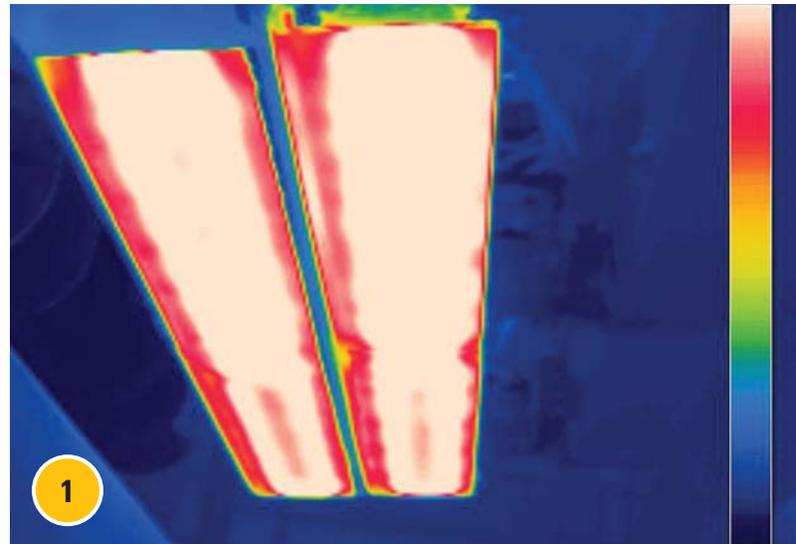
- Touch-pad technology and LED indicator lights create a user-friendly interface
- Three pre-set temperature settings for each screed section ensure even heat distribution
- Manual adjustments provide override capability
- Flattened bar type heating elements deliver reliability
- Temperature sensors in each screed section, including extensions
- On-board diagnostics enable operator to verify fault indicators

TRACTOR-MOUNTED GENERATOR

- GFCI circuit breaker protection
- Fast heat-up at low idle.
- Manual breaker reset
- 25 kW generator
 - supplies 25 kW at 60 Hz with engine speed 1275 or higher
 - provides power to the electric screed and auxiliary power panel
 - utilized for normal lighting packages
- 35 kW generator
 - supplies 35 kW with engine speed at 1500 rpm or higher
 - provides power to the electric screed and two auxiliary power panels
 - utilized for large lighting packages and wide width tamper bar screed

AUXILIARY POWER

- 7 kW of available power
- Six, 120-volt receptacles
- One, 240-volt receptacle
- Supports high intensity discharge lighting (HID), power tools



1. Even Heat Distribution
2. Electric Heat Panel
3. Heating Element
4. Generator
5. Auxiliary Panel

PRODUCT LINK

REDUCE COSTS.

Product Link gets you accurate, timely and useful information about the location, utilization and condition of your equipment.

TIMELY MAINTENANCE MANAGEMENT

- Easily plan and track maintenance
- Start with “built-in” Caterpillar recommended service intervals and customize to match your fleet and job needs
- See what service has been done and what is due at a glance
- “Click-through” features make it easy to contact your Cat Dealer for service and maintenance

CUSTOMIZED ALERTS & DISPLAYS

- See all alerts on one screen, or any that you specify
- Prioritize information; service alerts, operator-generated errors, etc.
- Send alerts to the people who need them via email or text message

USER-FRIENDLY DASHBOARD

- See individual machine status instantly
- Monitor current fuel level and total usage
- Stay on top of past due alerts
- Idle vs. Work Time graph helps you monitor utilization

ROBUST GEO-FENCING

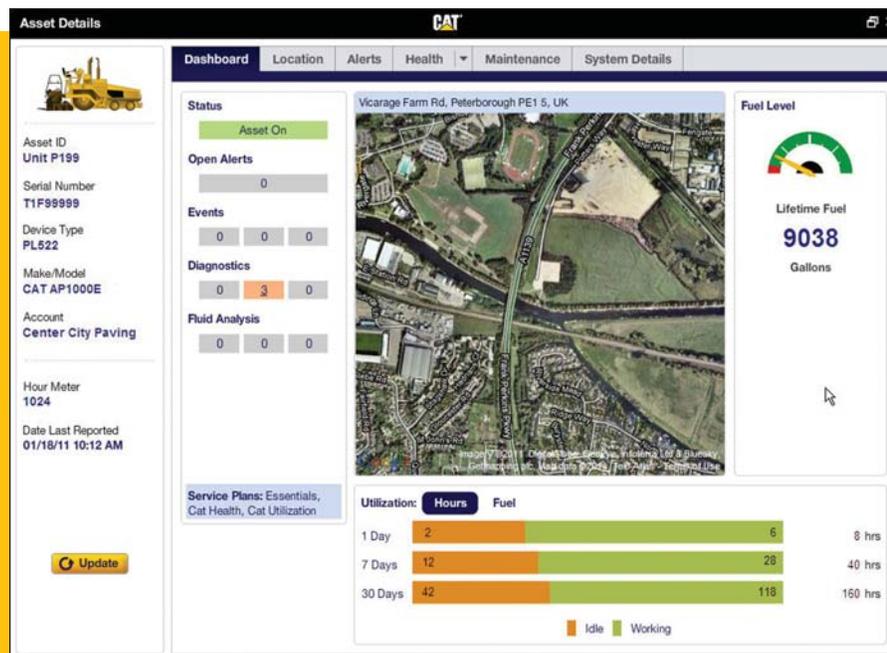
- Street maps and satellite view simplify set up of site boundaries
- Easily draw complex, accurate boundary shapes
- Provides valuable asset tracking and security monitoring tools

IDLE TIME VS. WORKING TIME

- Instantly relate and compare utilization of all assets on a job site
- Make better informed equipment decisions. Are there enough trucks delivering material or too few?

FAST PARTS ORDERING

- VisionLink™ provides “to do” checklists for common preventive maintenance and service procedures.
- “Built-in” parts lists for common procedures
- Click-through to PartStore™ and automatic loading of parts lists speed and simplify ordering.





SUSTAINABILITY

PROVIDING SOLUTIONS THAT FUTURE GENERATIONS CAN BUILD UPON.

LOWER ENGINE EMISSIONS

- Cat C7.1 ACERT engine meets U.S. EPA Tier 4 Interim/EU Stage IIIB emissions standards
- Utilization of low sulfur fuels and oil limits green-house gas emissions
- Automatic engine speed control and Eco-mode reduce engine speed leading to fuel conservation, lower emissions and lower sound levels
- Engine after-treatment system reduces emissions

OPTIMIZED MATERIAL DELIVERY

- Precise mix delivery leads to smoother mats that last longer for future generations
- On-demand delivery results in slower moving components that extend service life and and save resources
- Cat Grade and Slope System optimizes mix delivery resulting in lower costs, less usage, and smoother roads for longer life

CLEANER MORE COMFORTABLE OPERATING ENVIRONMENT

- Ventilation system redirects fumes away from the crew for a better operating environment
- Lower sound levels due to reduced engine speeds
- Machine compartments are equipped with sound suppression material, limiting fatigue on the crew and surrounding environment

LONG LIFE COMPONENTS AND FASTER SERVICE

- Long life fluids extend service life
- Remote drains ports provide clean collection of fluids
- Washdown system utilizes eco-friendly releasing agents



CUSTOMER SUPPORT.

TOTAL CUSTOMER SUPPORT OFFERED BY ONE COMPANY.

Cat Dealers offer the highest level of support available. Whether it's parts support, application support, machine support, or financial support, we offer it. Customer satisfaction continues to be our number one goal!

CAT DEALER SUPPORT

- Cat Financial Services to meet all of your business needs
- 24 Hour Parts Support, get parts when and where you need them
- Project Consulting, optimize performance of your equipment
- Service Training, increase knowledge of machine components in order to minimize downtime
- Paver Operator Training (P.O.T.), optimize machine performance

“UNTIL NOW, WE DIDN'T REALIZE WHAT GOOD CUSTOMER SUPPORT WAS.”

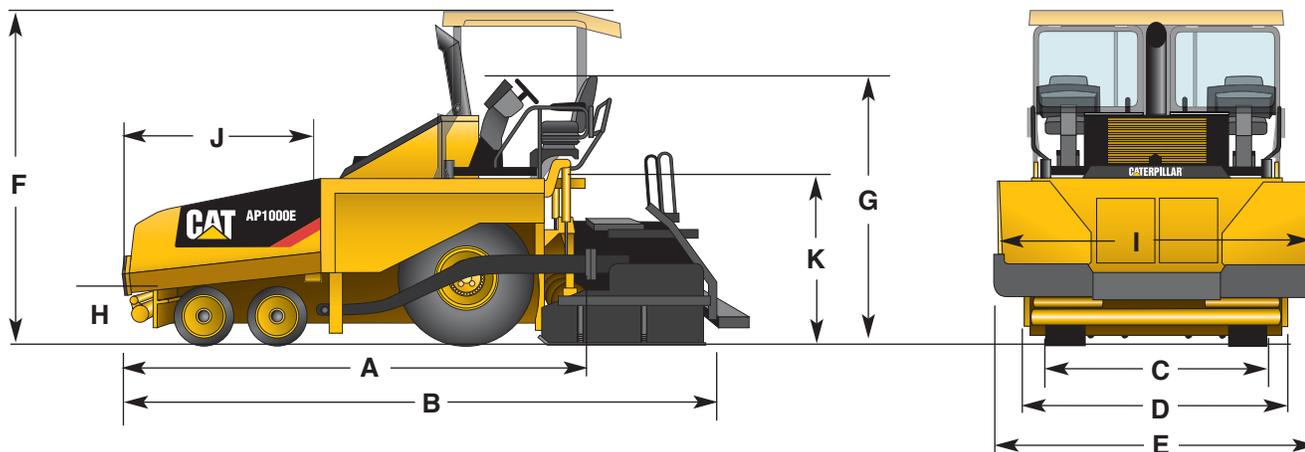
~ NEW CAT PAVING CUSTOMER

Optional Equipment

Auger and Mainframe Extensions
Auxiliary Power Panel
Cut-Off Shoe
Decelerator Pedals
Ecological Washdown System and Hose Reel
Feeder Sensor (Mechanical or Sonic)
Friction Steering (AP1055E)
Front Wheel Assist or All-Wheel Drive (AP1000E)
Grade and Slope Controls (Cat/Topcon)
Hard Top Canopy
High Intensity Discharge Lights (w/Canopy)
Leveling Devices
Lights (Working or Roading)
Mobil-Trac Undercarriage Belt; smooth/treadbar (AP1055E)

Oscillating Push Roller
Power Folding Front Apron
Power Mainframe Extensions
Product Link
Screed Extensions
Tow-point Indicators (Upper)
Track Plow (AP1055E)
Truck Hitch
Umbrella
Up-time Kit
Warning Beacon
Wide Width Paving Packages
Windshield (w/hard top canopy)

AP1000E Paver Specifications



Dimensions

A Tractor length w/push roller	4.95 m (16' 3")
B Length with push roller and AS2302C screed w/walkway up	5.46 m (17' 11")
Length with push roller and AS2302C screed w/walkway down	5.80 m (19')
Length with push roller and AS3301C screed	6.61 m (21' 7")
Length with push roller and AS4251C screed	6.52 m (21' 4")
Length with push roller and AS4252C screed	6.63 m (21' 8")
C Wheel gauge width (outside to outside)	2.87 m (9' 5")
D Transport width with screed end gates (hopper raised)	3.24 m (10' 8")
Transport width without screed end gates (hopper raised)	3.00 m (9' 10")
E Tractor operating width (hopper lowered)	3.52 m (11' 7")
F Operating height	3.72 m (12' 2")
G Transport height with fumes stack and seat lowered	2.85 m (9' 4")
H Truck entry height (apron)	585 mm (23")
I Truck entry width	3.52 m (11' 7")
J Hopper length	2.10 m (6' 11")
K Deck Height	1.77 m (5' 10")

Weights

AP1000E (Tractor only)	15 160 kg (33,352 lb)
w/AS2302C	18 245 kg (40,223 lb)
w/AS3301C	18 427 kg (40,625 lb)
w/AS3301C w/C6.6 engine	18 660 kg (41,138 lb)
w/AS4251C	19 508 kg (43,008 lb)
w/AS4251C w/C6.6 engine	19 742 kg (43,524 lb)
w/AS4252C	18 561 kg (40,920 lb)
w/AS4252C w/C6.6 engine	18 795 kg (41,436 lb)

Paving Range

w/AS2302C	3.05 m - 6.70 m (10' - 22')
w/AS3301C	3.05 m - 7.38 m (10' - 24' 2")
w/AS4251C	3.05 m - 8.00 m (10' - 26' 4")
w/AS4252C	3.05 m - 8.00 m (10' - 26' 4")
Max Paving Depth	305 mm (12")

Powertrain

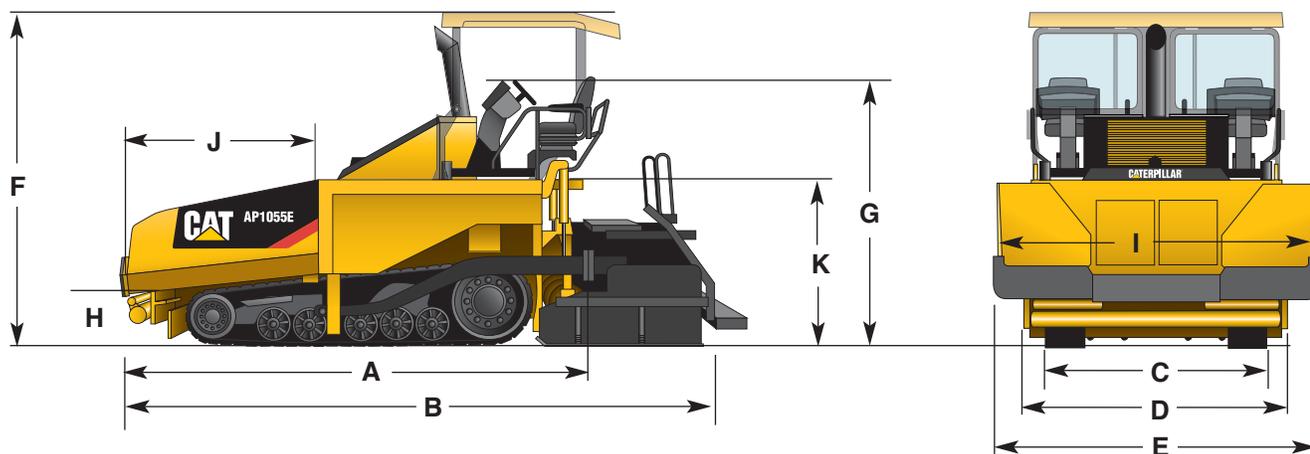
Cat C7.1 or C6.6 ACERT Engines	168 kW (225 hp)
Speeds:	
Paving	61 mpm (200 fpm)
w/tamper bar screed	25 mpm (82 fpm)
Travel	20 km/hr (12 mph)

Miscellaneous

Fuel Tank Capacity	348 L (92 gal)
Hopper Capacity*	7.1 m ³ (251 ft ³)
Electrical System	24 V, 105A alternator
Generator Size	25 kW or 35 kW

* Includes tunnels

AP1055E Paver Specifications



Dimensions

A Tractor length w/push roller	4.95 m (16' 3")
B Length with push roller and AS2302C screed w/walkway up	5.46 m (17' 11")
Length with push roller and AS2302C screed w/walkway down	5.80 m (19')
Length with push roller and AS3301C screed	6.61 m (21' 7")
Length with push roller and AS4251C screed	6.52 m (21' 4")
Length with push roller and AS4252C screed	6.63 m (21' 8")
C Track gauge width (outside to outside)	2.72 m (8' 11")
D Transport width with screed end gates (hopper raised)	3.24 m (10' 8")
Transport width without screed end gates (hopper raised)	3.00 m (9' 10")
E Tractor operating width (hopper lowered)	3.60 m (11' 10")
F Operating height	3.73 m (12' 3")
G Transport height with fumes stack and seat lowered	2.87 m (9' 5")
H Truck entry height (apron)	581 mm (23")
I Truck entry width	3.52 m (11' 7")
J Hopper length	2.10 m (6' 11")
K Deck Height	1.79 m (5' 11")

Weights

AP1055E (Tractor only)	16 810 kg (36,982 lb)
w/AS2302C	19 894 kg (43,859 lb)
w/AS3301C	20 076 kg (44,260 lb)
w/AS3301C w/C6.6 engine	20 310 kg (44,776 lb)
w/AS4251C	21 158 kg (46,645 lb)
w/AS4251C w/C6.6 engine	21 392 kg (47,161 lb)
w/AS4252C	20 211 kg (44,558 lb)
w/AS4252C w/C6.6 engine	20 445 kg (45,074 lb)

Powertrain

Cat C7.1 or C6.6 ACERT Engines	168 kW (225 hp)
Speeds:	
Paving	61 mpm (200 fpm)
w/tamper bar screed	25 mpm (82 fpm)
Travel	14.5 km/hr (9 mph)

Paving Range

w/AS2302C	3.05 m - 6.70 m (10' - 22')
w/AS3301C	3.05 m - 7.38 m (10' - 24' 2")
w/AS4251C	3.05 m - 8.00 m (10' - 26' 4")
w/AS4252C	3.05 m - 8.00 m (10' - 26' 4")
Max Paving Depth	305 mm (12")

Miscellaneous

Fuel Tank Capacity	348 L (92 gal)
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Electrical System	24 V, 105A alternator
Generator Size	25 kW or 35 kW

* Includes tunnels

AP1000E AND AP1055E PAVER

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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Featured machines in photos may include additional equipment.
See your Cat Dealer for available options.

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