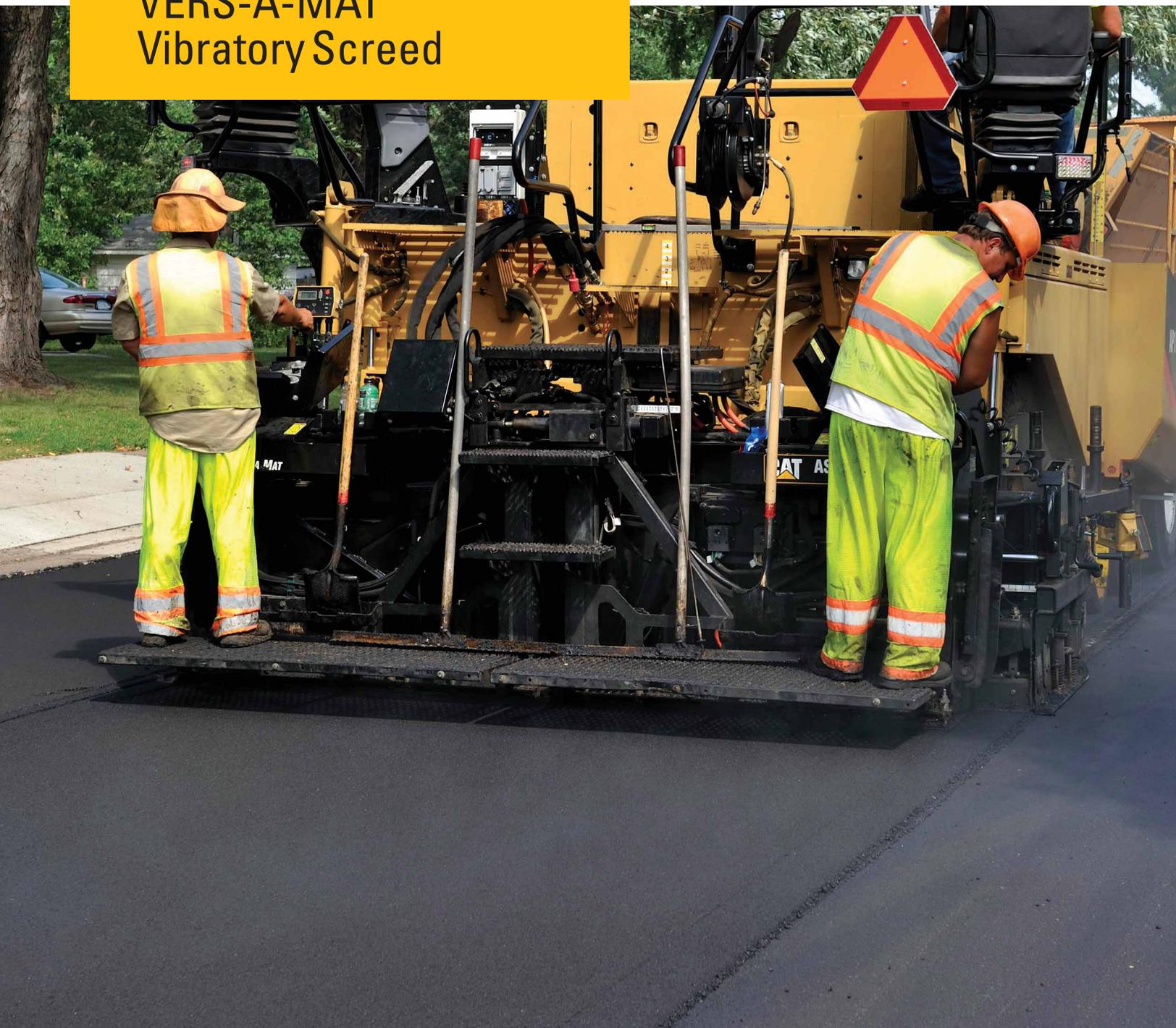


AS2302C

VERS-A-MAT™ Vibratory Screed



AS2302C Screed Weight	3084 kg	6,800 lb
Paving Ranges:		
Hydraulically extendable	3.0 m - 5.5 m	10' - 18'
w/Bolt-on extensions	3.0 m - 6.7 m	10' - 22'
w/Cutoff shoes	2.4 m	8'

AS2302C VERS-A-MAT™ SCREED

The AS2302C vibratory screed features front-mounted extenders, CANbus electrical system, and electrically heated screed plates, making it a perfect fit for parking areas, business developments and other applications that require variable width paving.

This highly mobile screed with narrow front-mounted extenders easily maintains the proper mix height with less material, enabling quick reaction and less handwork when moving to a new starting position.

APPLICATIONS

- Interstates
- Airports
- Highways
- Residential streets
- City streets
- Parking lots
- Variable width paving

CONTENTS

Smoothness Features	4
Operating Environment	5
Quick Adjustments	6
Service and Reliability	7
Cat Grade and Slope	8, 9
Electric Screed Heat	10
Paving Widths	11
Specifications	11

--SMOOTH RESULTS

- Rigid frame and balanced weight design prevents flexing for optimal mat quality
- Maximum paving range of 2.44 m - 6.7 m (8' - 22')
- Narrow extender screed plates are 229 mm (9") wide providing optimal smoothness
- Spring-loaded end gates deliver downward pressure to contain mix for tight edges and smooth joints

LEADING-EDGE TECHNOLOGY

- Cat® Grade and Slope Automation offers more precise control and a visual display with multiple language options
- CANbus electrical system reduces wiring requirements for increased reliability
- Electronic Control Module (ECM) is compatible with Cat ET for fast and easy diagnostics



ADVANCED SCREED CONTROL

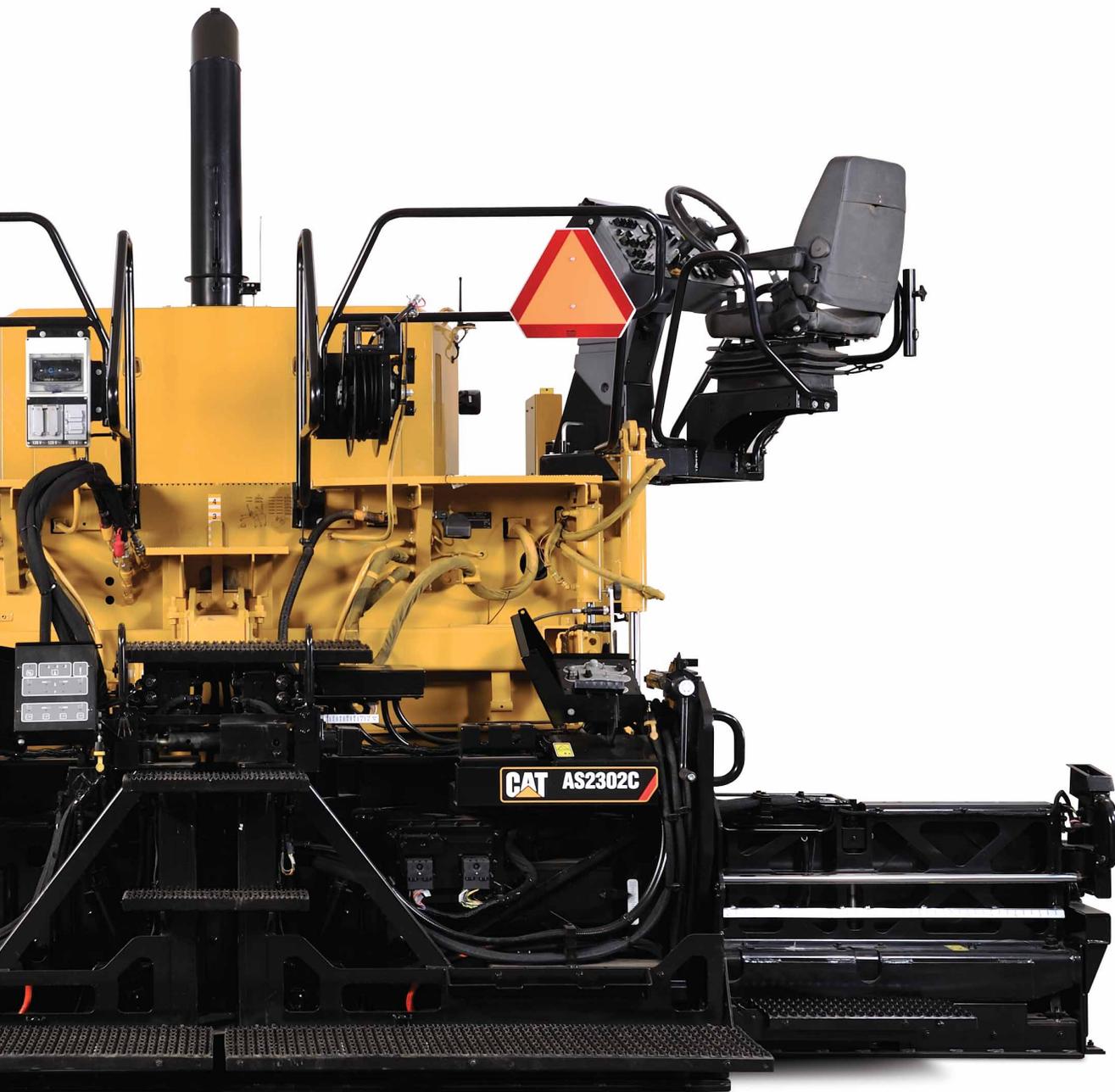
- Main screed controls equipped with adjustable wrist rests are ergonomically located for optimal efficiency
- Mix height dial easily maintains head of material
- Remote extender controls provide easy access for efficient operation
- Power controls simplify adjustments for crown, height, and slope
- Thickness control screws are equipped with spinner handles for fast, easy adjustment
- Integrated sonic sensor harnesses increase reliability, minimize potential damage
-

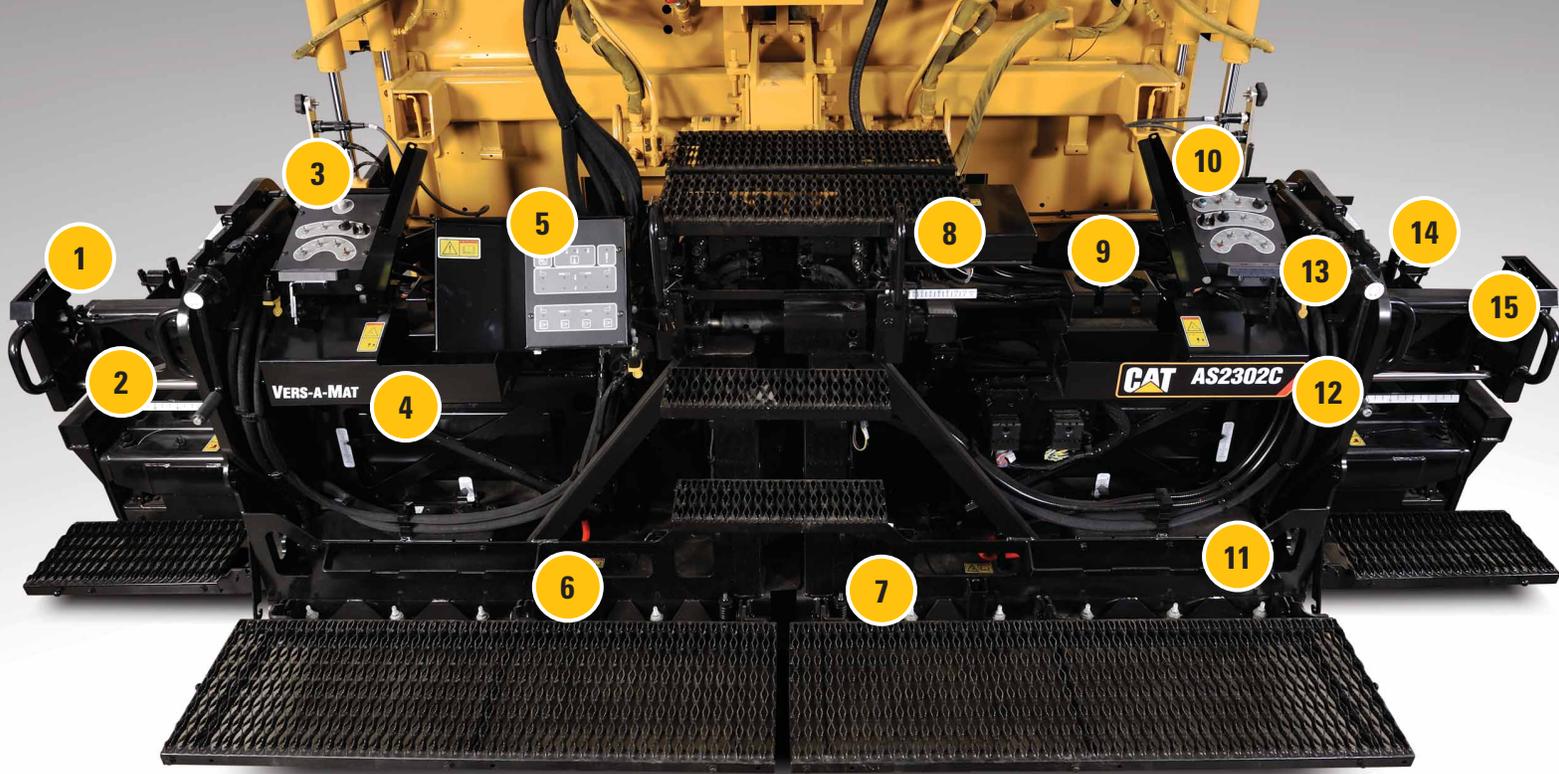
FAST HEATING ELECTRIC SCREED

- Quick and even screed plate heating at low idle
- User-friendly touch pad technology simplifies operation
- Three pre-set temperature settings for each screed section
- Manual override capability

EXCELLENT SERVICE AND RELIABILITY

- Electronic Control Module (ECM) simplifies troubleshooting procedures
- Easy component access simplifies routine service
- Well-designed hydraulic routings are protected with kevlar braid
- Color-coded electrical wiring simplifies troubleshooting procedures
- O-ring face seals (ORFS) offer durability and prevent leaks





SMOOTHNESS FEATURES

**QUICK ADJUSTMENTS, EFFICIENT
OPERATION.**

1. Remote Extender Controls
2. Rigid Support Tubes
3. Power Screed Controls
4. Tool Box
5. Electric Heat Control Panel
6. Threaded-Bolt Screed Plate Adjusters
7. Electrically Heated Screed Plates
8. CANbus Electrical System
9. Cup Holder
10. Main Screed Controls
11. Shovel Holder
12. Spinner Handles on Depth Cranks
13. Adjustable Wrist Rest
14. Angle of Attack Adjuster (extender)
15. Integrated Sonic Sensor Wiring

FRONT-MOUNTED EXTENDER DESIGN

- Extenders are mounted in front of the main screed plate, require less material to maintain a consistent head of material
- Narrow extenders enable quicker reaction when maneuvering around obstacles
- Visual width indicators keep operators informed of paving width
- Extenders are equipped with vibration and heat
- Angle of attack adjusters enable the extenders to match the main screed texture

SCREED PLATES

- Main plates are 457 mm (18") wide (front to back)
- Extender plates are 229 mm (9") wide (front to back)
- Standard hardened alloy steel plates resist abrasion
- Optional high strength plates for increased durability
- Curved screed plate design ensures smooth flow

VIBRATOR SYSTEM

- Provides initial compaction
- Located on main screed and extenders
- Adjustable range of 0 - 3000 vpm
- Vibration on extenders is synchronized to match the main screed

SPRING-LOADED END GATES

- Delivers an adjustable force allowing the end gates to follow the paving surface
- Ensures contact with the mat to create a confined joint
- Eliminates protrusions, enabling the extender to pave close to curbs and obstructions
- Replaceable wear strip ensures performance

OPERATING ENVIRONMENT

DESIGNED WITH EFFICIENCY IN MIND.



LEFT MAIN SCREED CONTROLS

- Tow-point height
- Power mainframe extension (option)
- Mix height control dial
- Extender width
- Feed system override
- Extender slope
- Extender height



RIGHT MAIN SCREED CONTROLS

- Eco-washdown switch
- Power crown control
- Vibratory frequency control
- Power berm (option)
- Mix height dial
- Power mainframe extension (option)
- Tow-point height
- Extender height
- Extender slope
- Feed system override
- Extender width

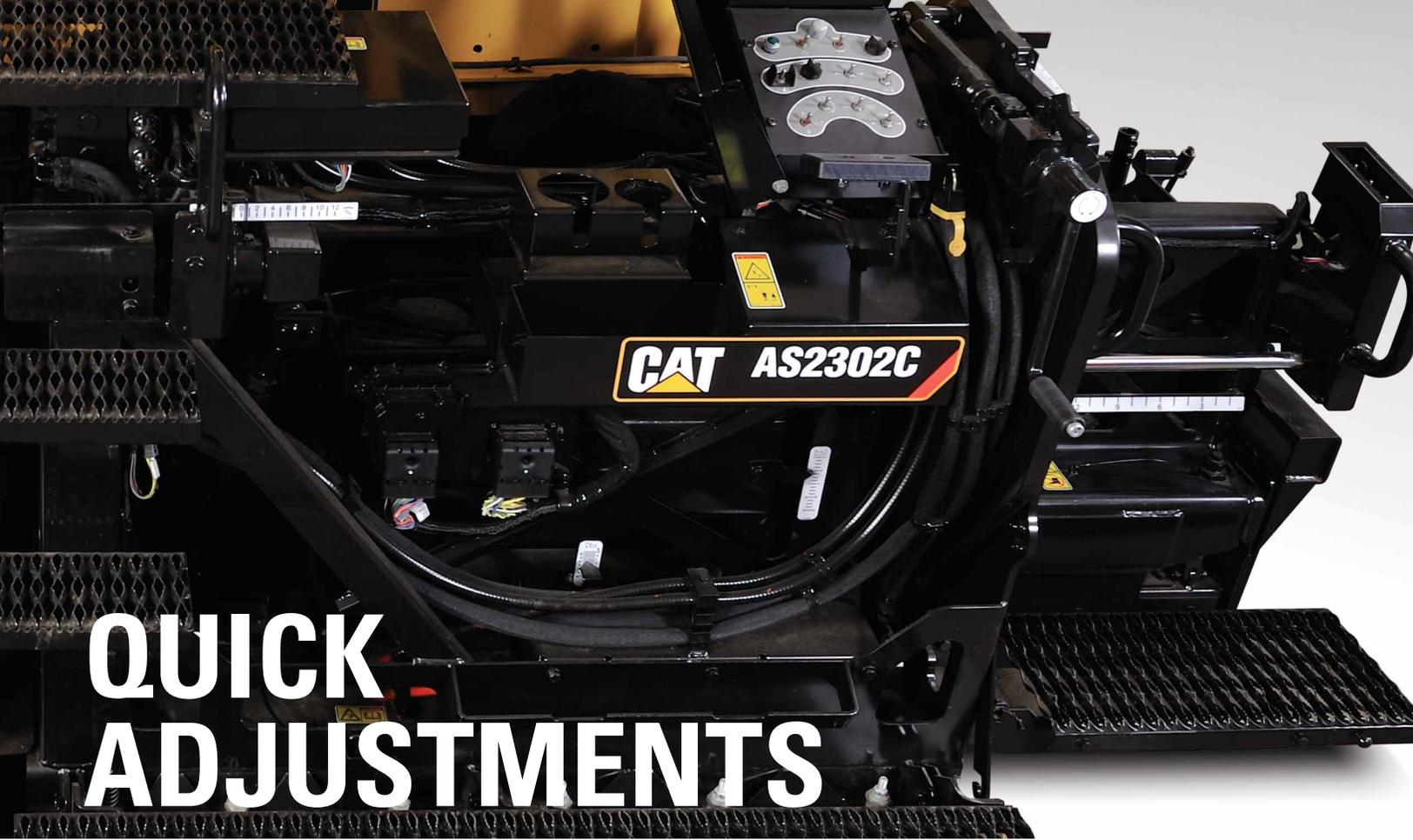


REMOTE EXTENDER CONTROL

- Tow-point height
- Feed system override
- Extender width



1. Crown Indicator
2. Extender Slope Indicator
3. Extender Height Indicator
4. Extender Width Indicator



QUICK ADJUSTMENTS

AUTOMATED OPERATION INCREASES EFFICIENCY.

FRONT-MOUNTED EXTENDERS

- Narrow front-mounted extenders easily draw in material when paving around obstacles and quickly extend when increasing paving widths, prevents mix from being trapped in front of the main screed

THICKNESS CONTROL SCREWS

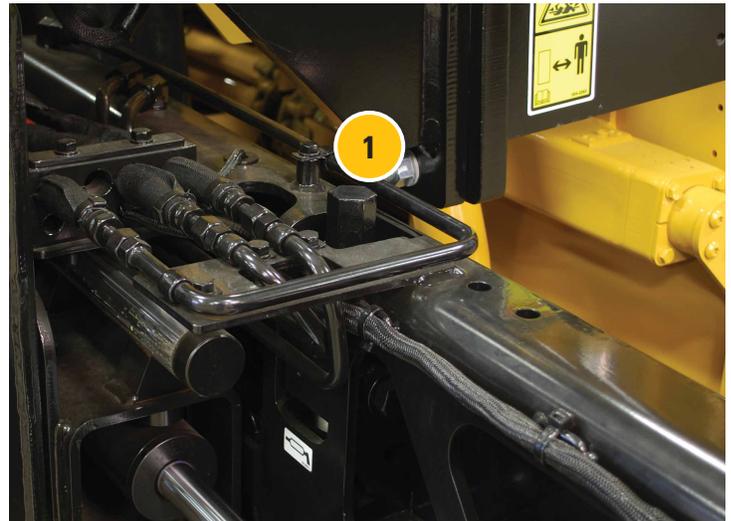
- Equipped with spinner handles for quick, easy adjustment
- An adjustment of 25.4 mm (1") requires 8 turns
- Choice of left or right hand depth control threads to suit operator preferences

POWER CONTROLS

- Crown angle, +10% to -3%
- Extender slope percent, +3% to -10%
- Extender height, 6.4 mm (0.25") increments

EXTENDER ANGLE OF ATTACK ADJUSTMENT

- Extenders are equipped with angle of attack adjusters
- Easily match mat texture and quality of the main screed

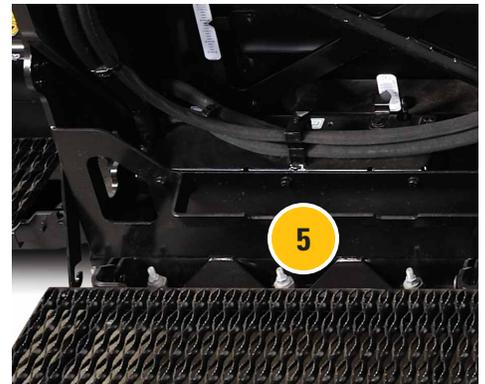
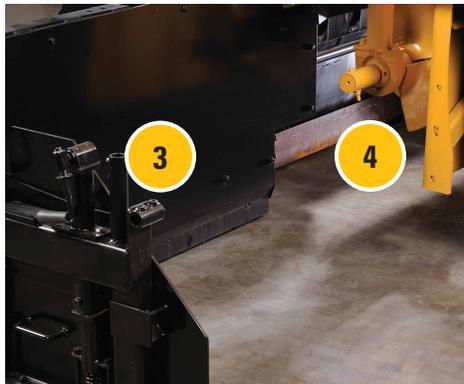
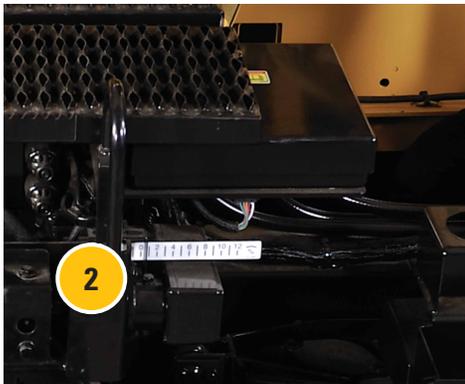


1. Extender Angle of Attack Adjustment

SERVICE AND RELIABILITY

OPTIMIZE PERFORMANCE, MAXIMIZE SERVICE LIFE.

Simplified leveling and easy diagnostics leads to higher productivity and increased profits.



ELECTRONIC CONTROL MODULE (ECM)

- ECM is compatible with Cat ET for fast and easy diagnostics
- Simplifies/reduces wiring requirements
- Controls screed electrical functions

SCREED PLATE ADJUSTMENT

- Front and rear threaded-bolt adjusters simplify screed plate leveling and eliminate shims
- Saves time when installing new screed plates
- Adjustment hardware is plated to resist corrosion

PROTECTED ROUTINGS

- Hydraulic hoses and electrical wiring are strategically routed, clamped in place, and wrapped with kevlar braid to ensure reliability and prevent abrasion

REMOTE GREASE FITTINGS

- Vibrator bearings are equipped with easy to access grease fittings that enable simplified service

O-RING FACE SEALS

- O-ring face seals and couplings optimize contact to ensure performance and prevent leaks

RELIABLE ELECTRICAL SYSTEM

- Color-coded, numbered, and soldered electrical system simplifies service and delivers reliability

2. Electronic Control Module (ECM)
3. Front-Mounted Extender
4. Main Screed Plate
5. Threaded-Bolt Screed Plate Adjusters

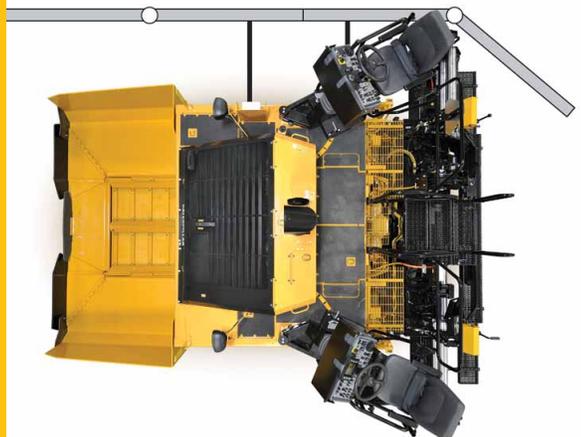


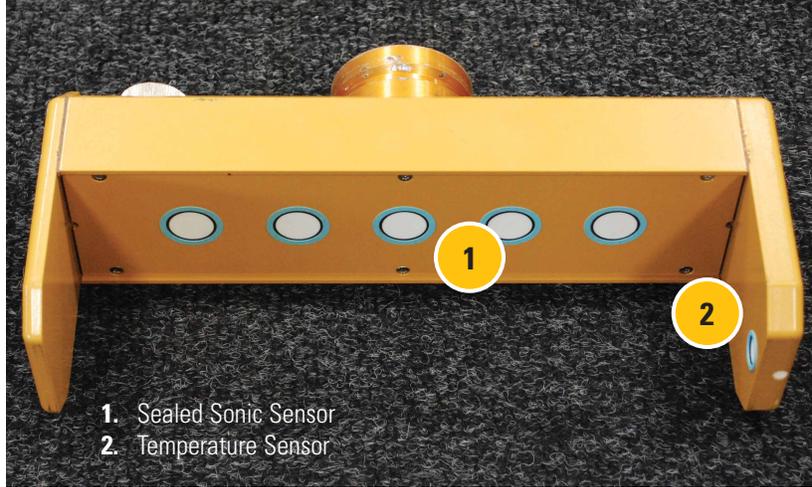
CAT GRADE AND SLOPE SYSTEM

**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 screed
- 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

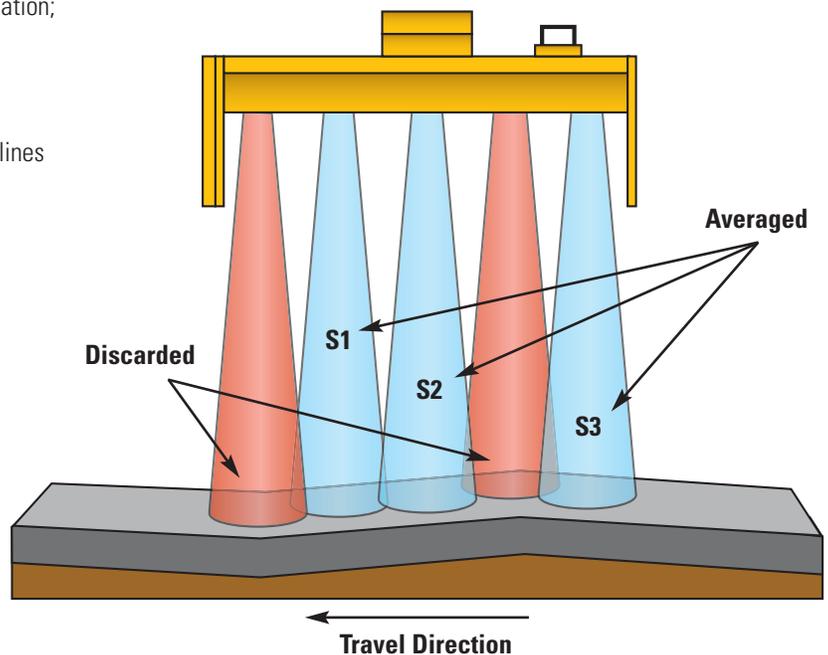
- Two designs; ground contacting ski, wand-type for string lines
- Effective for curbs and joints

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

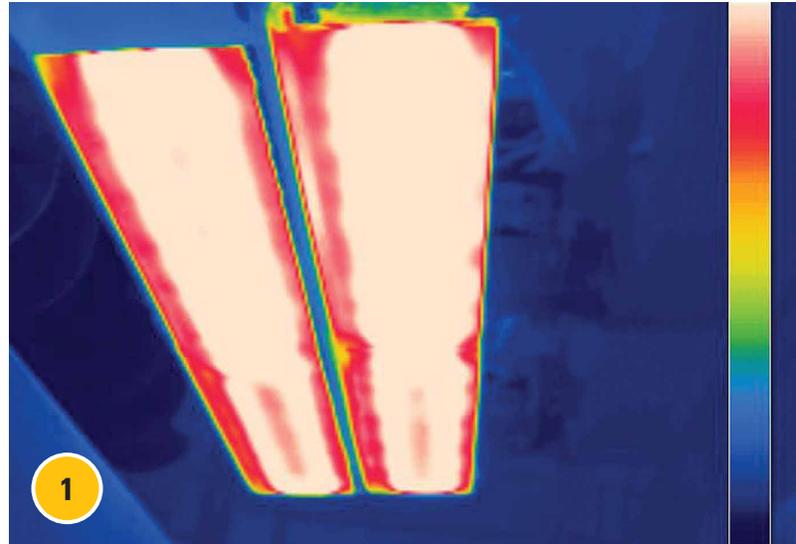
- Touch-pad technology and LED indicator lights create a user-friendly interface.
- Three pre-set temperature settings for each screed section ensure even heat distribution
- Manual adjustments provide override capability
- Flattened bar type heating elements deliver reliability
- Temperature sensors 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



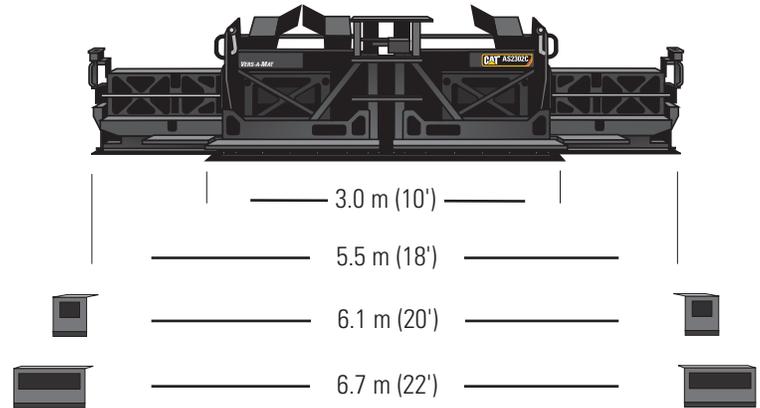
1. Even Heat Distribution
2. Electric Heat Panel
3. Heating Element
4. Generator
5. Auxiliary Panel

PAVING WIDTHS

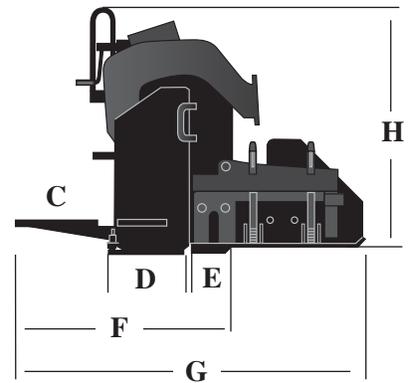
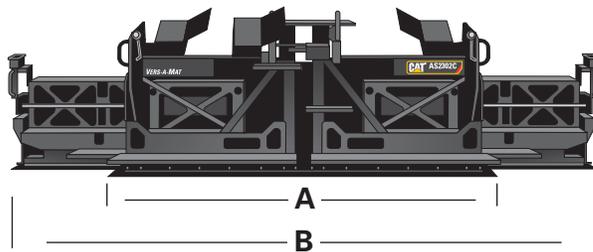
EXTENSIONS MAXIMIZE VERSATILITY

AS2302C SCREED EXTENSIONS

These extensions are available in 305 mm (1') and 610 mm (2') lengths. Screed extensions are electrically heated with vibration.



AS2302C Screed Specifications



Dimensions		Weights	
A Width with end gates	3.31 m (10' 10")	Screed	3084 kg (6,800 lb)
Width without end gates	3.29 m (10' 9")	305 mm (12") extension	45 kg (100 lb)
B Hydraulically extendable width	5.5 m (18')	610 mm (24") extension	84 kg (185 lb)
C Walkway width (main)	476 mm (18.75")	Screed Adjustments	
D Main screed plate width (front to back)	457 mm (18")	Crown range	+10% to -3%
E Extender screed plate width (front to back)	229 mm (9")	Height indicator increment	6.4 mm (0.25")
F Length without end gates (front to rear)	1.3 m (4' 4")	Slope (horizontal)	10% below to 3% above
G Length with end gates (front to rear)	2.06 m (6' 9")	Vibrator speed	0 - 3000 rpm
Screed plate thickness	13 mm (0.5")		
H Height	1.4 m (4' 7")		

AS2302C VERS-A-MAT™ Screenshot

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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