

# AS2252C

Vers-A-Mat™  
Asphalt Screed



#### AS2252C Vers-A-Mat™ Screed

|                              |                              |
|------------------------------|------------------------------|
| Weight                       | 2721 kg (6,000 lb)           |
| Standard Paving Width        | 2.5 m (8' 2")                |
| Paving Ranges:               |                              |
| hydraulically extendible     | 2.5 - 4.4 m (8' 2" - 14' 5") |
| maximum w/bolt-on extensions | 5.6 m (18' 5")               |

## Versatility and Productivity Provided in a Multipurpose Screed

*The AS2252C Vers-A-Mat™ asphalt screed offers narrow, front-mounted extenders that simplify paving width adjustment and minimize handwork.*

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### Front-Mounted Extenders

The Vers-A-Mat™ screeds utilize extenders that are mounted in front of the main screed plates. This location allows the extenders to draw in the asphalt mix, minimizing handwork when changing paving widths.

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### Screed Plates

The curved nose design on the screed plates provide pre-compaction and good material flow. The narrow screed plates on the extenders offer good material control when paving variable widths. The threaded-bolt adjusters offer quick adjustment to ensure screed plate flatness.

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### End Gates

The end gates feature a spring-loaded false-wall design that provides easy gate adjustment. Dual-bolt guides allow the sliding portion of the gate to move vertically when making adjustments. The sliding portion of the gate provides a downward force in order to contain the asphalt mix.

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### Hydraulically-Driven Vibrators

Hydraulically-driven vibrators located on the main screed and on the extenders provide pre-compaction. The vibrator speed can be easily adjusted to match mix type.

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## Electric Heat and Easy to Use Features Increase Operator Comfort

*The AS2252C Vers-A-Mat™ asphalt screed with electrically heated screed plates integrates an ergonomic control switch layout, and remote-mounted controls on the extenders.*

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### Screed Controls

The main screed control panels are mounted on each side of the screed. The layout of each control panel promotes productivity and allows the screed operators to quickly make the necessary adjustments to the mat.

An adjustable wrist rest mounted on each screed control panel provides operator comfort and reduces fatigue.

The electric screed heat control panel utilizes touchpad technology for simplified operation and backlit LEDs provide easy recognition in order to create a user-friendly operating environment. The panel includes on/off heat control switch, three pre-set temperature settings for each screed section, fault indicators and manual overrides for each screed plate section.

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### Serviceability

The AS2252C screed has been designed for easy service and maintenance. Access to components such as screed plate adjusters, slope stops, wiring harnesses, hydraulic lines and grease fittings make service quick and efficient. A tool box located near each main screed control provides storage for necessary items.

A shovel holder is conveniently located on each side of the main screed for easy access.

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## Narrow Front-Mounted Extenders

*The narrow front-mounted extenders provide even material flow and reduced handwork when paving near curbs and around obstacles.*

### Narrow Front-Mounted Extenders

The extenders are mounted in front of the main screed plates. This forward location allows the extenders to easily draw in material when paving around obstacles.

### Remote Extender Controls

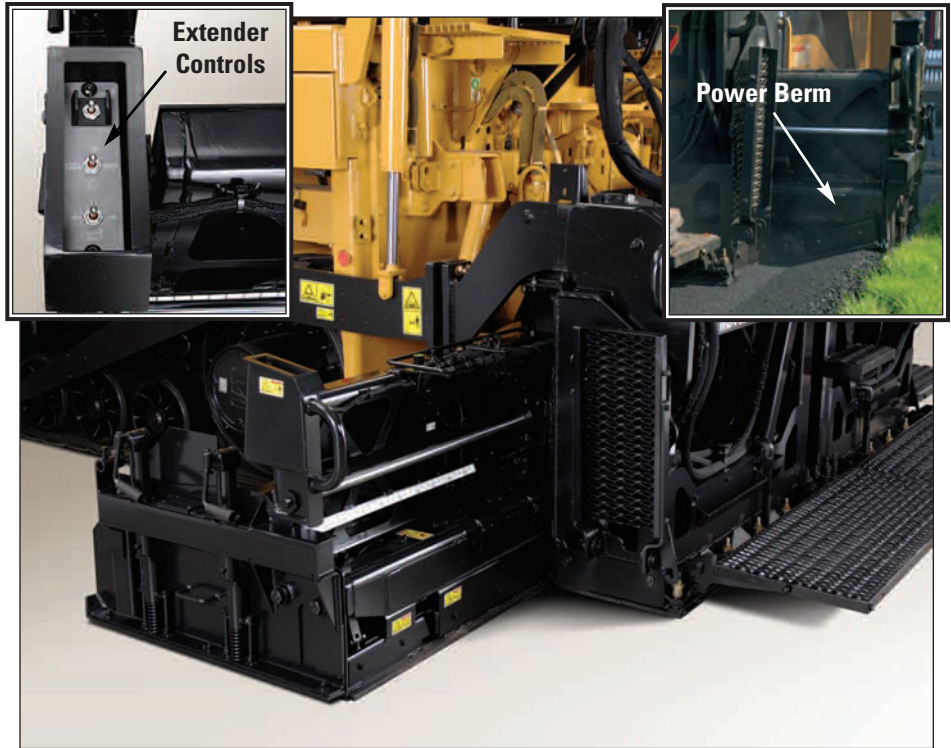
The remote extender control allows the operator to adjust paving width, tow point and material flow from the end of the extender.

### Versatility

The small footprint of the screed limits handwork when paving in tight locations. Quick reacting extenders and exceptional mat quality allows the screed to be used in commercial and highway applications.

### Power Berm (Optional)

The power berm creates a 305 mm (12") or 457 mm (18") wide berm. The berm height is hydraulically adjustable and provides a maximum end berm height of 152 mm (6").



## Screed Plates

*The industry-leading electric heating system delivers tight textures for high-quality mats and a long service life.*

### Screed Plates

The screed plates are constructed of an abrasion resistant alloy steel and utilize a curved nose design that provides pre-compaction and good material flow.

### Hydraulically-Driven Vibrators

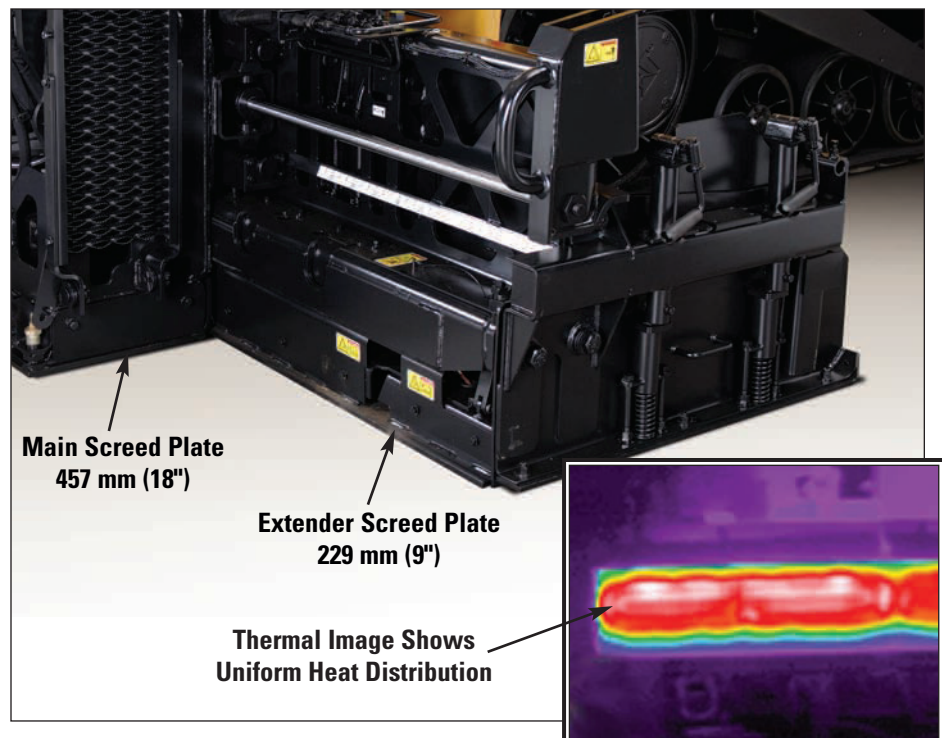
Hydraulically-driven vibrators mounted on the main screed and extenders increase mix density under the screed.

### Electric Heating Elements

The heating elements are located in each screed plate section to provide even heat distribution. The heating elements are reusable and can be easily removed and installed on new screed plates.

### Uniform Heating

The heating elements provide uniform heat distribution over the entire screed plate for reliable operation.





## End Gates

*Easy-grip handles and dual-bolt guides provide smooth height adjustments to ensure good joint-matching capabilities.*

### Spring-Loaded End Gates

The spring-loaded end gates create a downward force that causes the gates to follow the profile of the surface being paved, ensuring a good joint with the adjacent mat.

### False-Wall Design

The false-wall design reduces mix contact with the sliding portion of the gate, providing easy gate adjustments.

### Bolt-on Design

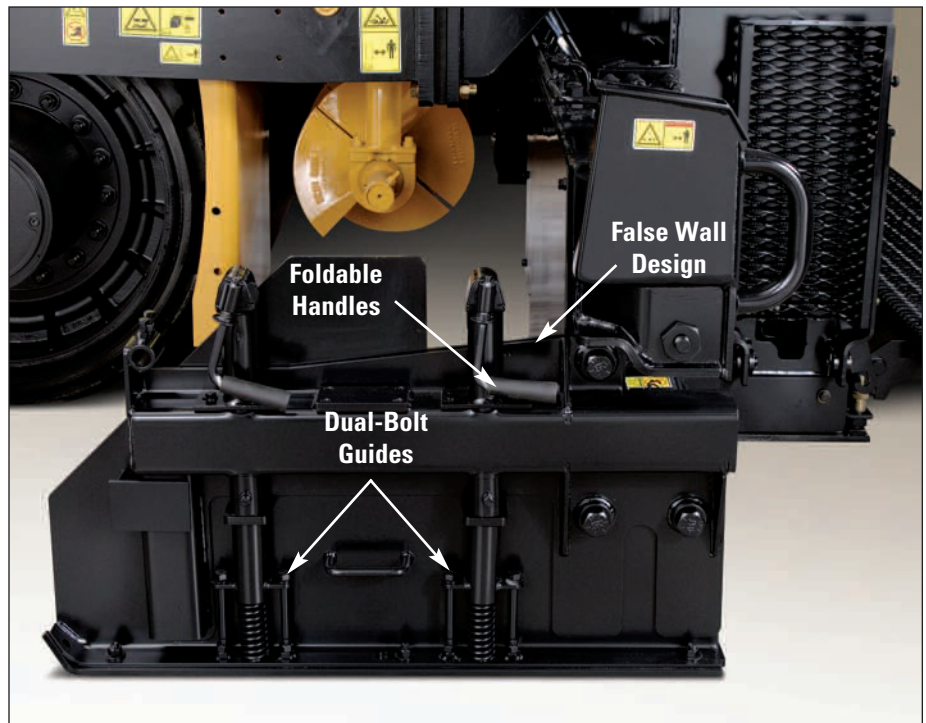
The bolt-on design allows easy end gate installation and removal when transportation concerns exist.

### Foldable Handles

Foldable handles located on the end gate height adjustments allow them to be fully retracted for working close to barriers.

### Dual-Bolt Guides

The dual-bolt guides allow smooth vertical movements and eliminate retention chains



## Control Panels

*A state-of-the-art electric heating system with easy-to-use controls that are located in the right place, allow the operator to make quick adjustments.*

### Conveniently Located Controls

The screed controls are conveniently located and easily recognizable to provide efficient operation.

### Electric Heat Control Panel

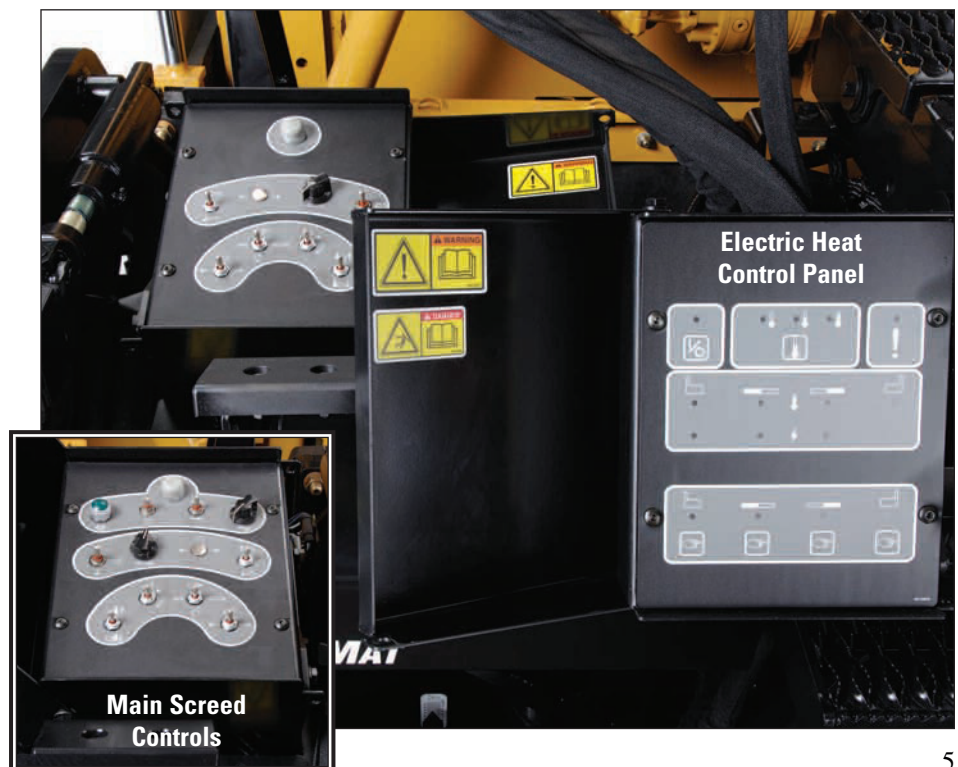
The electric heat control panel includes three temperature settings that are able to accommodate a variety of asphalt mixes and paving conditions.

### Electric Heat Controller

An electric heat controller automatically regulates screed plate temperatures to the selected setting. The controller requires minimal training in order to assist troubleshooting procedures.

### Adjustable Wrist Rest

An adjustable wrist rest located on each screed control panel provides operator comfort when making screed adjustments.



## Serviceability

The CANbus electrical system and easy access to the screed plate adjusters enables quick service.

### Quick Screed Plate Adjustment

The threaded-bolt design located on the front and rear edge of the screed plates eliminate shims to provide quick replacement and leveling.

### Replaceable Wear Strips

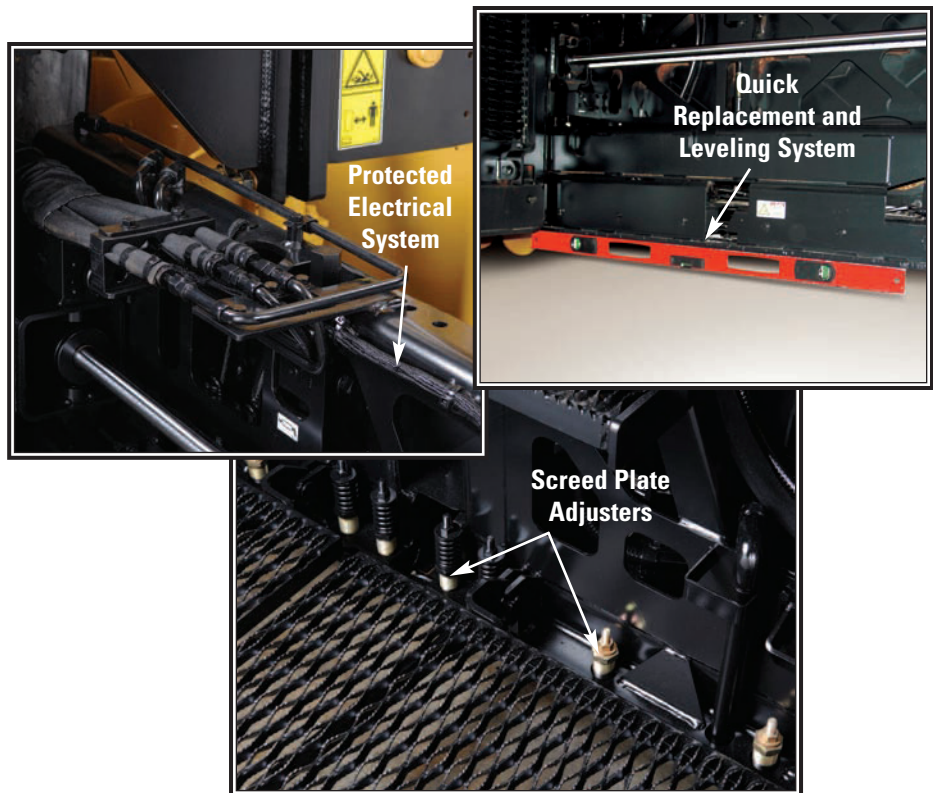
The wear strips located on the bottom of the end gate can be easily replaced in order to extend service life.

### CANbus Interface

The CANbus electrical system on the screed provides an interface with the Advisor display on the tractor for simplified diagnostics. The screed functions are hard-wired and compatible with Cat ET.

### Color-Coded Electrical Wiring

Cat® electrical harnesses utilize a kevlar braid and nylon mounting blocks to protect against abrasion. The wires are color-coded and numbered for easy reference.

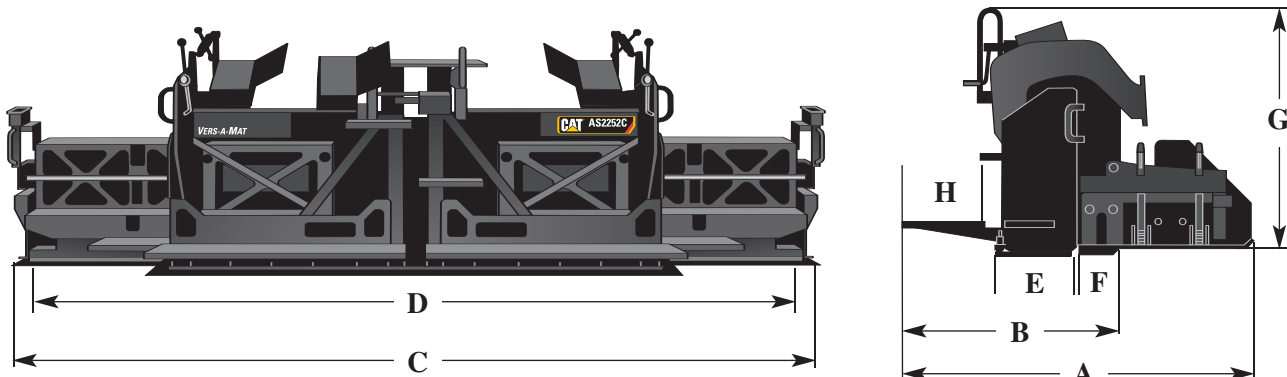


## Dimensions

|  | AS2252C Screed  |
|--|-----------------|
| <b>A</b> Length with end gates (front to rear)       | 2.06 m (6' 9")  |
| <b>B</b> Length without end gates (front to rear)    | 1.3 m (4' 4")   |
| <b>C</b> Width with end gates                        | 2.76 m (9')     |
| <b>D</b> Width without end gates                     | 2.74 m (8' 11") |
| <b>E</b> Main screed plate width (front to back)     | 457 mm (18")    |
| <b>F</b> Extender screed plate width (front to back) | 229 mm (9")     |
| <b>G</b> Height                                      | 1.4 m (4' 7")   |
| <b>H</b> Walkway width (main)                        | 476 mm (18.75") |

## Weights

|                        |                    |
|------------------------|--------------------|
| AS2252C Screed         | 2721 kg (6,000 lb) |
| 305 mm (12") Extension | 45 kg (100 lb)     |
| 610 mm (24") Extension | 84 kg (185 lb)     |



## Optional Equipment

### Power Berm

The power berm creates a 305 mm (12") or 457 mm (18") wide berm. The berm height is hydraulically adjustable and provides a maximum end berm height of 152 mm (6").

### Screed Extensions

Extensions are available in 305 mm (12") and 610 mm (24") widths.

### Wide Width Paving Packages

Paving packages are available in 5.0 m (16' 5") and 5.6 m (18' 5") widths.

### Cutoff Shoe

The cut-off shoe reduces the standard paving width from 2.5 m (8' 2") down to 1.90 m (6' 2").

## Screed Controls

The controls are logically grouped providing easy operation. Main control consoles are mounted on each side of the screed and include a wrist rest. They contain all electrically actuated controls.

The electric screed control console is mounted on the left side of the screed near the center walkway. The electric heat screed control panel includes a touch pad with high intensity LEDs for simplified use.

Remote-mounted control panels are mounted on the outboard side of each extender. They contain switches for the extender width, tow point height and the feeder system.

## Hydraulic System

The extenders are hydraulically controlled with electric-over-hydraulic components. The tractor supplies hydraulic flow.

Hydraulic connections have O-ring face seal (ORFS) fittings and straight-thread O-ring (STOR) couplings to provide maximum protection against hydraulic system leaks. High-pressure Cat XT hoses provide an extended service life.

## Screed Plates

The screed plates are 13 mm (0.5") thick. Main screed plate width, measured front to back, is 457 mm (18") and the extender screed plates measure 229 mm (9"). Main and extender screed plates are constructed of Hardox 500 XF alloy steel that resists abrasion and extends wear life.

Heavy-duty mounting platforms provide rigid support for the screed plates, simplifying leveling procedures.

Screed plate leveling is quick and convenient with the threaded-bolt adjustment system. The bolts thread into large nuts welded onto the underside of the screed frame. The hardware is plated to provide extra corrosion resistance.

## Power Controls

Standard power controls for crown, height and slope provide the operator with complete fingertip control.

The crown adjustment is made with a switch in the right control panel. Crown range is from +10% to -3%.

The height adjustment allows each extender to match the mat thickness being placed by the main screed. Indicators show the amount of adjustment in 6.4 mm (0.25") increments.

Each extender can be sloped during operation from +10% to -3%. Indicators show the percent of slope.

## Electrical System

The electrical system is 24-volts to match the tractor. Integrity of the electrical system on Cat® machines is ensured with the use of high-quality components. The Caterpillar electrical standards, developed to enhance reliability and durability, feature soldered, molded, numbered and color-coded wires with nylon-braided wrap to protect the electrical harness.

## Extender Configuration

Two hydraulically driven extenders infinitely vary screed width within the paving range. The extenders are positioned in front of the main screed. The front-mounted extenders are supported by two 51 mm (2") diameter extendable tubes that provide torsional resistance and rigidity.

Extender width changes can be made from the tractor, main screed or remote-mounted control panels. The remote-mounted control panels are positioned at the end of each extender.

Extenders are equipped with vibrators and heaters that are separate from the main screed. Vibrator motors and shafts are hydraulically driven. Frequency and amplitude are synchronized with main screed vibrators.

## End Gates

End gates are 1 m (3' 3") long, helping contain material and providing an optimal longitudinal joint. The end gates are spring-loaded, creating an adjustable downward force that allows them to follow the profile of the surface being paved. The spring-loaded design also creates a contained joint with the adjacent mat.

## Thickness Screws

Thickness control screws with spinner handles are located on the outboard side of each control console. The thickness screws control the paving depth. Two thread configurations are available including; Acme clockwise and Acme counterclockwise with 25.4 mm (1") - 8 tpi fine threads. A spherical bearing located on the drop arm pivot reduces friction for easy adjustment.

## Vibrator System

The main screed and extenders are equipped with a vibrator system that provides initial compaction. Vibrator speed is adjustable from 0 to 50 Hz (0-3,000 vpm).



## AS3251C Extend-A-Mat® Asphalt Screed

The AS3251C is a 2.44 m (8') screed that features rear-mounted extenders and utilizes a CANbus electrical system. The CANbus electrical system is only compatible with the AP600D and AP655D.



### AS3251C Extend-A-Mat with Rear-Mounted Extenders

|                                 |               |             |
|---------------------------------|---------------|-------------|
| Operating weight                | 2925 kg       | 6,450 lb    |
| Standard paving width           | 2.44 m        | 8'          |
| Paving Ranges                   |               |             |
| hydraulically extendible        | 2.44 - 4.75 m | 8' - 15' 6" |
| maximum with bolt-on extensions | 6.15 m        | 20' 2"      |
| minimum with cut-off shoes      | 1.83 m        | 6'          |

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