



Cat[®] SE50 VT

Asphalt Screed (A42)

The Cat[®] SE50 VT Asphalt Screed utilizes tamper bars and rear-mounted extenders to deliver smooth material flow and increased mat density. Stability, easy set-up, and a versatile paving range make it the perfect match for air-ports, interstates, highways, and many other mid-sized paving applications.

Application Versatility

- Common applications include urban and rural roads, streets, air-ports, highways, and interstates
- The standard paving range of 2.55 m - 5.0 m (8' 4" - 16' 4") provides excellent performance when changing paving widths for both urban and highway paving applications
- Simple, bolt-on extensions offer a maximum paving width of 7.64 m (25')

Pave Start Assistant

- Pave Start Assistant saves set-up profiles for repeatable use on future job sites, simply activate the profile for quick, single person setup
- Set-up preferences include: tamper speed, tow-point height, screed heat temperature, paving speed, paving width, paving depth, crown, extender height (power option), screed assist, and screed locking features
- Setup features are located in the left screed display and can also be viewed through right screed display and tractor displays

Simple Operation

- Operating displays can be tailored to specific language requirements with multiple options available
- Exclusive 2-speed, proportional extender control provides smooth adjustment when transitioning paving widths
- Screed operating consoles are equipped with ratio adjustment for the augers and conveyors, providing the ability to modify material flow
- Optional power controls for extension height enables operators to quickly manage mat quality
- Trailing edge screed plate adjusters help maintain an even plane across the width of the screed in order to enhance paving quality and extend screed plate life

Smooth Material Flow

- Enhanced tamper-bar and deflector plate profiles provide smooth flow to the screed plates
- Screed plate depths of 324 mm (12.75") on both the main and extenders provide stability and good mat textures
- The heated end gate option helps prevent material from sticking for better edge profiles and joint matching capability

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Quick Heat, Even Distribution

- Belt-driven, tractor-mounted generator delivers fast heating screed plates for quick starts
- Electric heating system with zone monitoring helps ensure even heat distribution and smooth asphalt textures while also allowing heating to continue in the event of a temperature sensor failure

Cat® Grade Control (Option)

- Factory-integrated leveling system that helps remove irregularities from the surface and control mat thickness for increased production, lower operating costs, and higher profitability
- User-friendly system with text-based displays, split screen-mode, and on-the-go sensor selection
- Precise control driven by 10-point auto-calibration, true averaging with 5 transducers in each sonic sensor, and cross-coupling feature that maintains slope requirements more consistently when changing elevation

Cat Electronics

- Cat Electronic Control Modules (ECM) and ET compatibility simplifies diagnostics and trouble-shooting procedures
- Remote flash simplifies software updates

Service and Repair Kits

- Paver and screed service and repair kits include 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 | | Standard | Optional |
|--------------------------------|----------|----------|--|----------|----------|
| OPERATING ENVIRONMENT | | | MATERIAL DELIVERY | | |
| Pave start assistant | | ✓ | Drop arm spacer | | ✓ |
| Umbrella | | ✓ | Endgate – manual | ✓ | |
| POWER CONTROLS | | | Endgate – power | | ✓ |
| Crown | ✓ | | Extension packages | | ✓ |
| Extender height | | ✓ | 0.45 m commercial | | ✓ |
| TECHNOLOGY | | | 1.32 m commercial | | ✓ |
| Cat Grade Control | | ✓ | 1.32 m base width | | ✓ |
| SERVICE AND MAINTENANCE | | | 1.77 m base width | | ✓ |
| Service repair kits | ✓ | | 2.64 m base width | | ✓ |
| SAFETY | | | Folding endgate | | ✓ |
| Horn – warning | ✓ | | Heated endgate | | ✓ |
| Lights – roading | | ✓ | Knife edge end gate | | ✓ |
| | | | Shoe – cut-off, one 305 mm, one 610 mm | | ✓ |
| | | | Shoe – safety edge, 63.5 mm depth, 30° maximum chamfer | | ✓ |
| | | | Shoe – safety edge, 127 mm depth, 30° maximum chamfer | | ✓ |
| | | | Shoe – wide, 68 mm | | ✓ |

Cat® SE50 VT Asphalt Screed

Technical Specifications

Machine Weight

| | | |
|----------------|---------|----------|
| SE50 VT screed | 3129 kg | 6,898 lb |
|----------------|---------|----------|

Paving Range

| | | |
|----------------------------|---------------------------------|----------------|
| Standard range | 2.55 m - 5 m | 8' 4" - 16' 4" |
| Maximum width w/extensions | 7.64 m | 25' |
| Maximum paving depth | 305 mm | 12" |
| Crown range | -2% to +5% per side | |
| Extender height range | -5 mm to +15 mm (-.08 to +.19") | |
| Tamper bar amplitude | 4 mm, 2 mm (.16", .08") | |
| Tamper bar speed | 300-1800 rpm | |
| Screed plate vibration | 0-3000 rpm | |

Paver Compatibility

SE50 VT (A42)

| | |
|-------|---|
| AP500 | X |
| AP555 | X |

Dimensions

| | | | |
|---|---|---------|-------|
| 1 | Standard width with end gates | 2700 mm | 106" |
| 2 | Length with end gates (front to back) | 2089 mm | 82" |
| | Length without end gates (front to back) | 1586 mm | 62" |
| 3 | Height | 1312 mm | 51.5" |
| 4 | Walkway width | 323 mm | 12.7" |
| 5 | Screed plate width - main (front to back) | 324 mm | 12.8" |
| 6 | Screed plate width - extender (front to back) | 324 mm | 12.8" |
| | Screed plate thickness | 12.2 mm | 0.5" |



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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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