



Cat[®] SE50 VT

Asphalt Screed

The Cat[®] SE50 VT 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 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 8 m (26' 3")

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

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



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Pendent Control (Option)

- Manual overrides and pause function capability for each auger and each conveyor are available to match changes in material flow requirements
- Optional power height functions assist with profile
- Automatic Grade Control activation provides flexibility when working on the outer edge of the screed

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

Quick Heat, Even Distribution

- Tractor integrated generator delivers fast, 15-minute screed plate heating 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 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
OPERATING ENVIRONMENT		
Pave start assistant		✓
Pendent control		✓
Umbrella		✓
Visors		✓
POWER CONTROLS		
Crown	✓	
Extender height		✓
TECHNOLOGY		
Cat Grade Control		✓
SERVICE AND MAINTENANCE		
Service repair kits	✓	
SAFETY		
Horn – warning	✓	
Lights – roading		✓

	Standard	Optional
MATERIAL DELIVERY		
Drop arm spacer		✓
Endgate – manual	✓	
Endgate – power		✓
Extension packages		✓
Folding endgate		✓
Heated endgate		✓
Shoe – cut-off		✓
Shoe – edge		✓
Shoe – safety edge		✓
Shoe – wide		✓
Thickness screws	✓	

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Technical Specifications

Machine Weight

SE50 VT screed	3295 kg	7,264 lb
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Paving Range

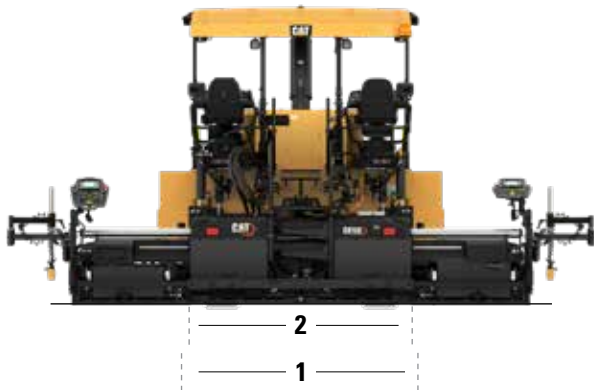
Standard range	2.55 m - 5 m	8' 4" - 16' 4"
Maximum width w/extensions	8 m	26' 3"
Maximum paving depth	305 mm	12"
Crown range	+5% to -2% per side	
Extender height range	+50 mm to -20 mm	
Tamper bar amplitude	2 mm, 4 mm, 7 mm	
Tamper bar speed	0-1800 rpm	
Screed plate vibration	0-3000 rpm	

Paver Compatibility

	SE50 VT
AP600	X
AP655	X
AP655 L	X

Dimensions

1	Standard width with end gates	2756 mm	108"
2	Transport width (folded end gates)	2550 mm	100"
3	Length with end gates (front to back)	2346 mm	92"
4	Length without end gates (front to back)	1731 mm	68"
5	Height	2091 mm	82"
6	Walkway depth	323 mm	12.7"
7	Screed plate depth - main	324 mm	12.8"
8	Screed plate depth - extender	324 mm	12.8"
	Screed plate thickness	12.5 mm	0.5"



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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