

Volvo Construction Equipment
Building Tomorrow



COMPACT ASSIST

Intelligent Compaction for Volvo Asphalt Compactors | Powered by Volvo Co-Pilot





OWN THE ROAD

Unlock your machine's full potential and achieve optimum compaction results with Compact Assist. Powered by Volvo Co-Pilot – the market-leading 10" touchscreen – Compact Assist gives you access to a selection of work enhancing tools, which can help to boost the efficiency and profitability of your operation.

Make light work of heavy-duty jobs

Get the job done right in less time and with less effort, thanks to Compact Assist. The family of user-friendly tools has been developed to facilitate a more successful compaction process,



by providing the operator with clear information on the task at hand. Using this powerful operational insight, operators can say goodbye to guess work and confidently monitor the progress of their work.

From mapping the road through to estimating density and producing jobsite reports, Compact Assist is available in a number of packages to suit the needs of you and your business.

PASS MAPPING

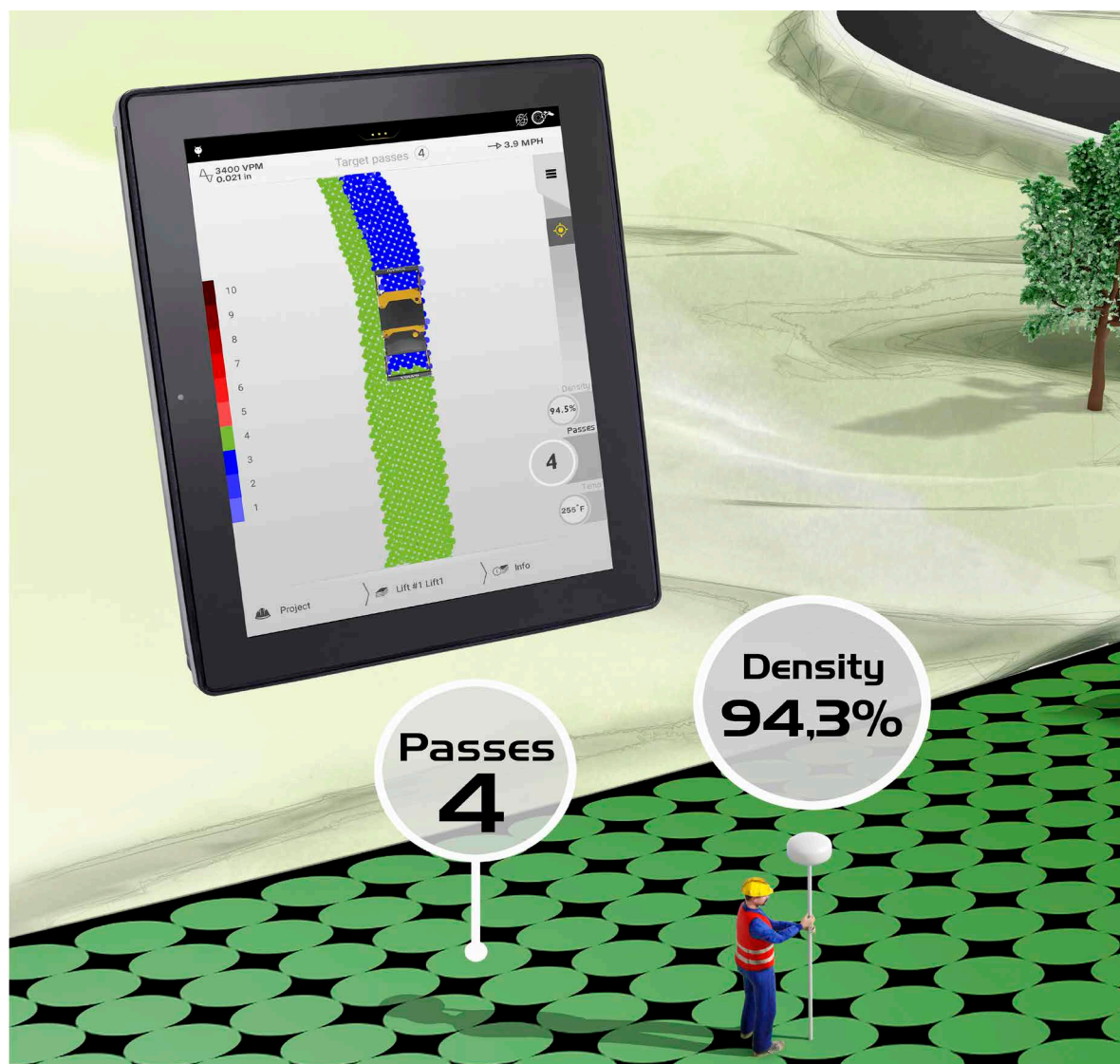
Know where you've been and where to go

Just a quick glance at the pass mapping screen gives operators a clear view of their stop points and overlaps. Pass mapping guides operators through a uniform rolling pattern, without over or under compaction, so they can quickly and efficiently make adjustments to ensure they never miss a spot.

TEMPERATURE MAPPING

Too hot to handle, too cold to roll

Ensure compaction is completed at the optimum pavement temperature. A color-coded map of surface temperatures and the ability to set the maximum/minimum range enables the operator to easily avoid rolling with a mix temperature that is too hot or too cold.



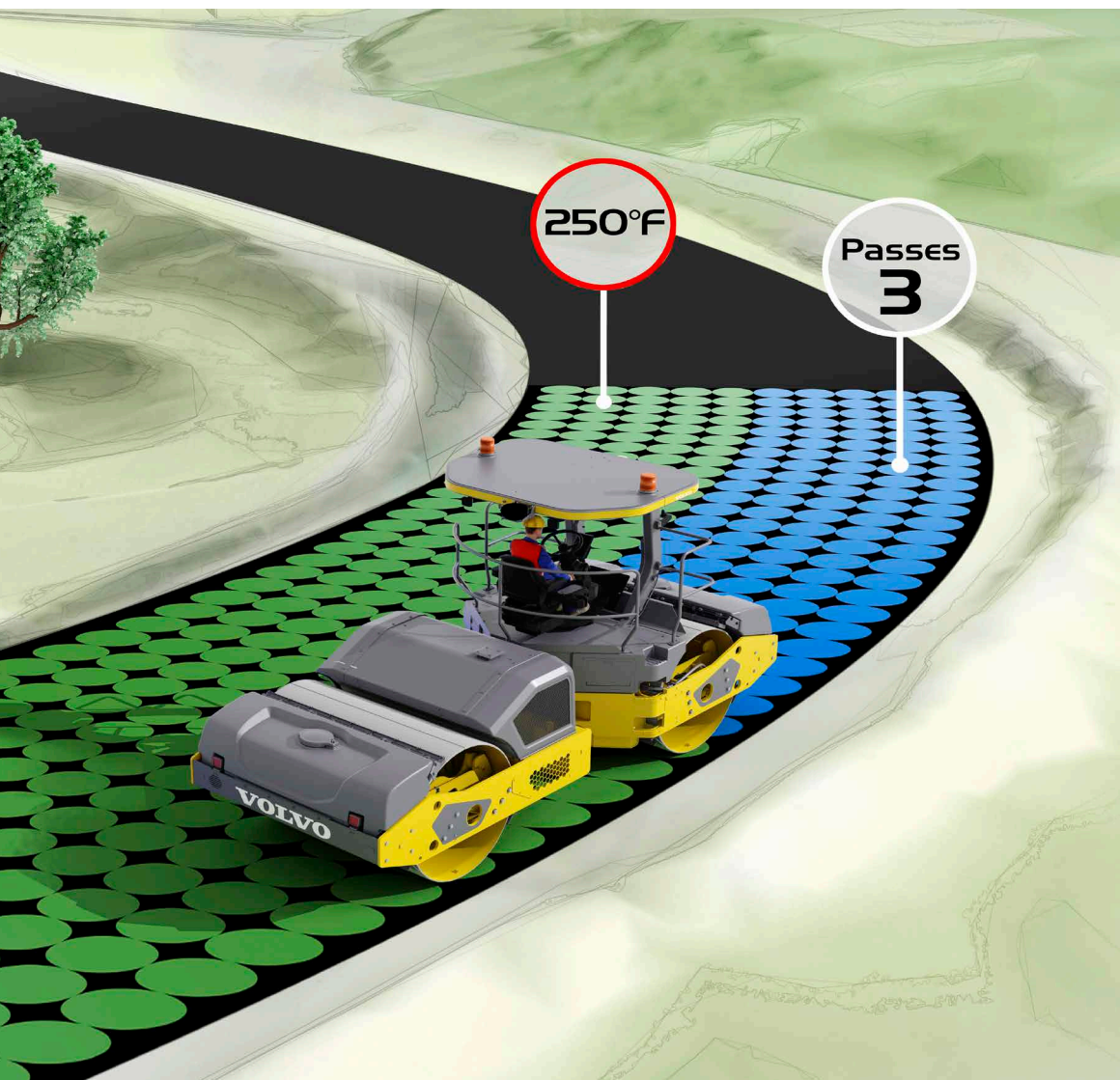
NEW!

Our Compact Assist Start package is designed to help you take the first steps into intelligent compaction, with no set-up required. Combining Pass Mapping and Temperature Mapping, “Start” offers straightforward tools to help you increase the quality of your work.

DENSITY DIRECT

Know you’ve done the job right

Accurately measure the quality of the pavement while you work, with Density Direct. Volvo’s patented solution provides a real-time estimate of the material density percentage and maps the entire job.



Ease of use

Compact Assist, powered by the Volvo Co-Pilot, makes your life easier. Simply tap, zoom and select – just as you would on your mobile tablet or smartphone – to switch screens and review the job in progress.

A clear view of the job

The intuitive system is designed with simplicity in mind, giving you a clear snapshot of the job and letting you smoothly move between screens with a single tap.

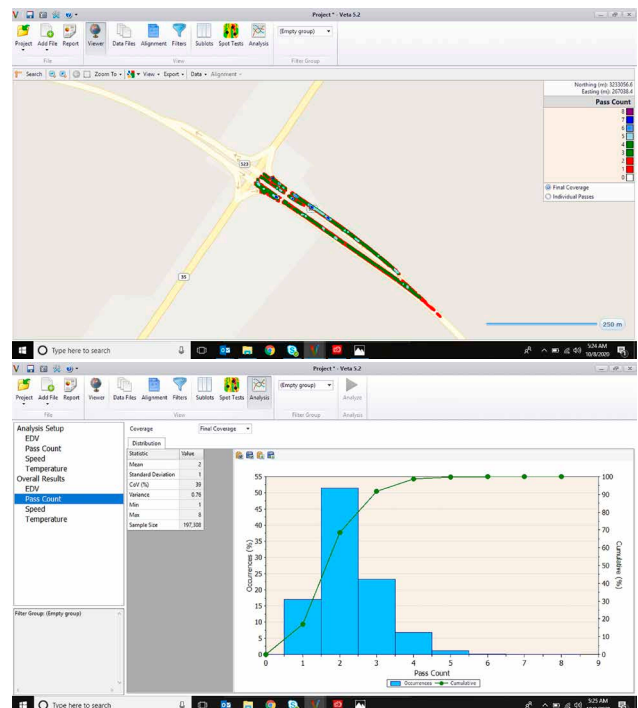


Set your own limits

Quickly set up your pass target and working temperature zone, keeping you working in the right range for optimum results.

Reporting on demand

Compatible with Veta Data Management and Analysis Software, Compact Assist provides extensive detail of the performance of the roller without the need for any post processing. Job data is automatically backed up and can be easily exported wirelessly or by using a USB-stick. You can also generate ready-made PDF reports and CSV data files for further analysis.



Setup for success

Take your first steps towards improving the quality of your work with the Compact Assist Start package. Start utilizes straightforward tools to take the guesswork out of roller operations, and with no setup required, you can be up and running in minutes. When you are ready to move to the next level, the system can be easily upgraded to the Compact Assist or Density Direct packages, letting you track data across the jobsite and measure compaction in real time.

	Compact Assist Start NEW Track your work	Compact Assist Accuracy and reporting	Density Direct Clear measurements
Pass Mapping	X	X	X
Temperature Mapping	X	X	X
Density Mapping*			X
Stiffness Mapping (CMV)**			X
GPS Antenna (High Accuracy)		X	X
Job data recorded and saved		X	X
Automatic job report creation		X	X
USB and Over-the-air download		X	X

* Density Mapping requires a calibration process in order to align the system with density measurements.

** Stiffness value is not calibrated.

Temperature sensors

Dual Temperature Sensors	Front and Rear
Sensor accuracy	+/- 2 °C (28.4°F), between -20°C to 500°C (-4°F to 932°F)

10" Volvo Co-Pilot tablet

	IP65 certified for weather proof protection
Alignment files	2D cad files can be uploaded to display a defined working area KMZ, KML

Global Navigation Satellite System

Coordinate Systems	UTM / State Plane / Local
Wireless GPS Antenna (Compact Assist Start)	Volvo CareTrack Antenna (GPS positioning received through cellular antenna) Not RTK/NTRIP compatible
Roller Mounted GNSS Antenna (Compact Assist & Density Direct)	SBAS (Satellite Based Augmentation Service) 1m / 36" Accuracy - RTK Compatible
NTRIP Correction (3rd party)	NTRIP (Networked Transport of RTCM via Internet Protocol) 2.5cm / 1" Accuracy
Base Station Correction	RTK (Real Time Kinematic) 2.5cm / 1" Accuracy
Radio Frequency band	Operating spectrum for mounted antenna 410-480 MHz
Alternate Radio Frequency bands	Radio kits can be purchased through aftermarket for non-compatible Base Stations

Reporting (not available with Compact Assist Start)

Job report	Job report automatically created when a lift is completed	PDF
Full data set	Full data set is automatically created and saved with each lift and can be viewed in Veta.	CSV
USB Download	All data can be downloaded directly from Co-Pilot display with a USB stick	
Over-the-Air Download	All data can be uploaded at a selectable interval (30 min to daily)	SIM card must be purchased separately

OPTIONAL EQUIPMENT

RTK Base station, 2.5cm/1" Accuracy	Includes a GPS 3320 GNSS radio receiver with all supporting equipment to setup the land base.
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RTK Rover, 2.5cm/1" Accuracy
Includes a GPS 3320 GNSS radio and receiver and an XF3 handled PDA data collector and supporting components.

Both kits are required to comply with AASHTO PP 81-14 and most state agency IC specifications.

Effective compliance with local IC requirements might vary; Please check relevant standards for your location.

Compact Assist is available for DD105, DD105 OSC, DD110C, DD120C, DD128C and DD140C.

VOLVO

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