

V O L V O



Intelligent Compaction for Volvo Soil Compactors

# COMPACT ASSIST

Volvo Construction Equipment

# HERE TO ASSIST YOU

Achieve optimum compaction results, with less effort, thanks to the suite of Compact Assist apps – all powered by the 10" Volvo Co-Pilot touchscreen.

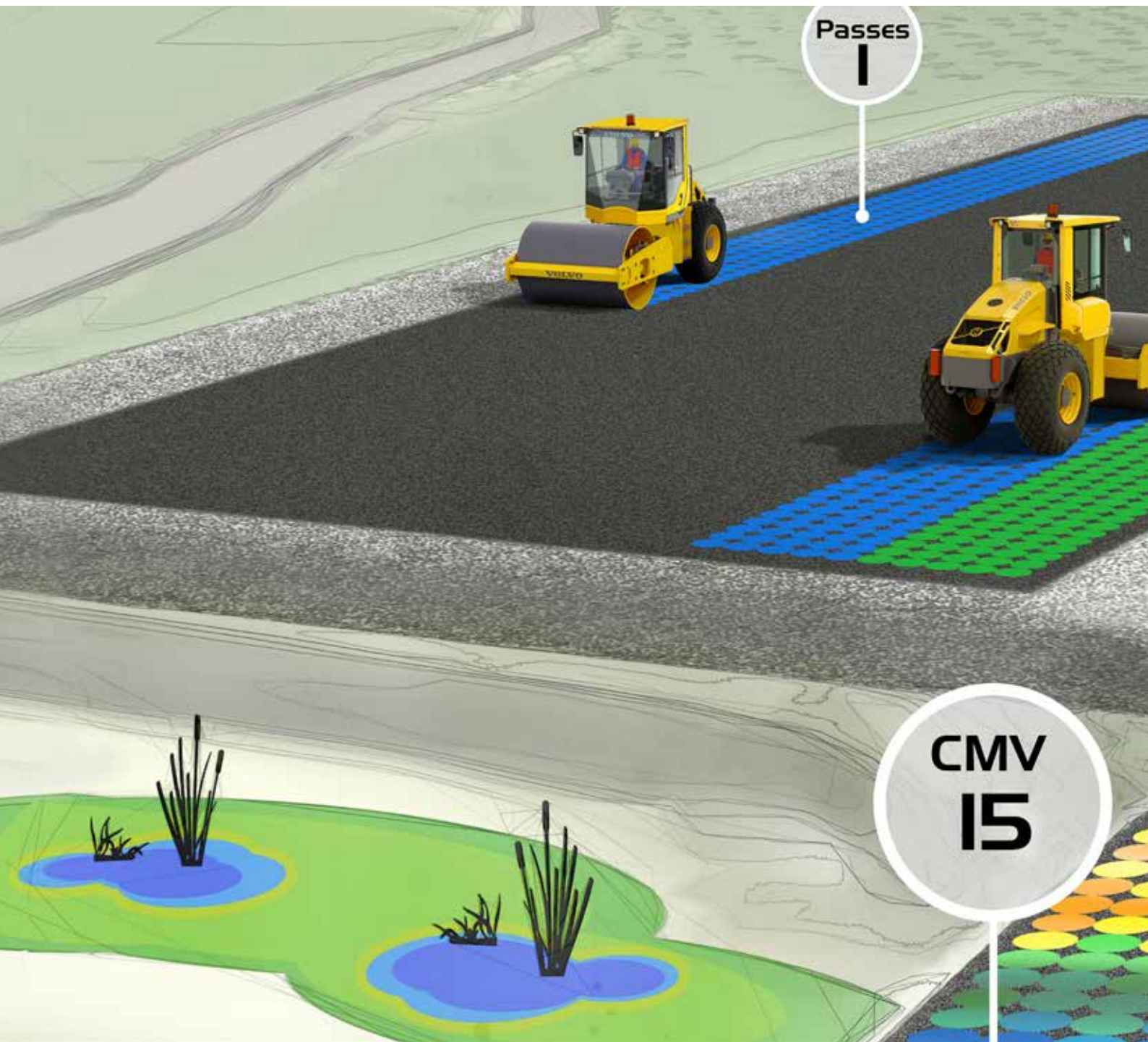


When working across large jobsites, it can be difficult to know where the ground has been adequately compacted and which areas require more attention. From simple compaction measurements, right through to complete tracking of both the coverage and compaction of the material, Compact Assist for Volvo Soil Compactors comes available in a number of packages to match the needs of your business.

# PASS MAPPING

## Map your progress

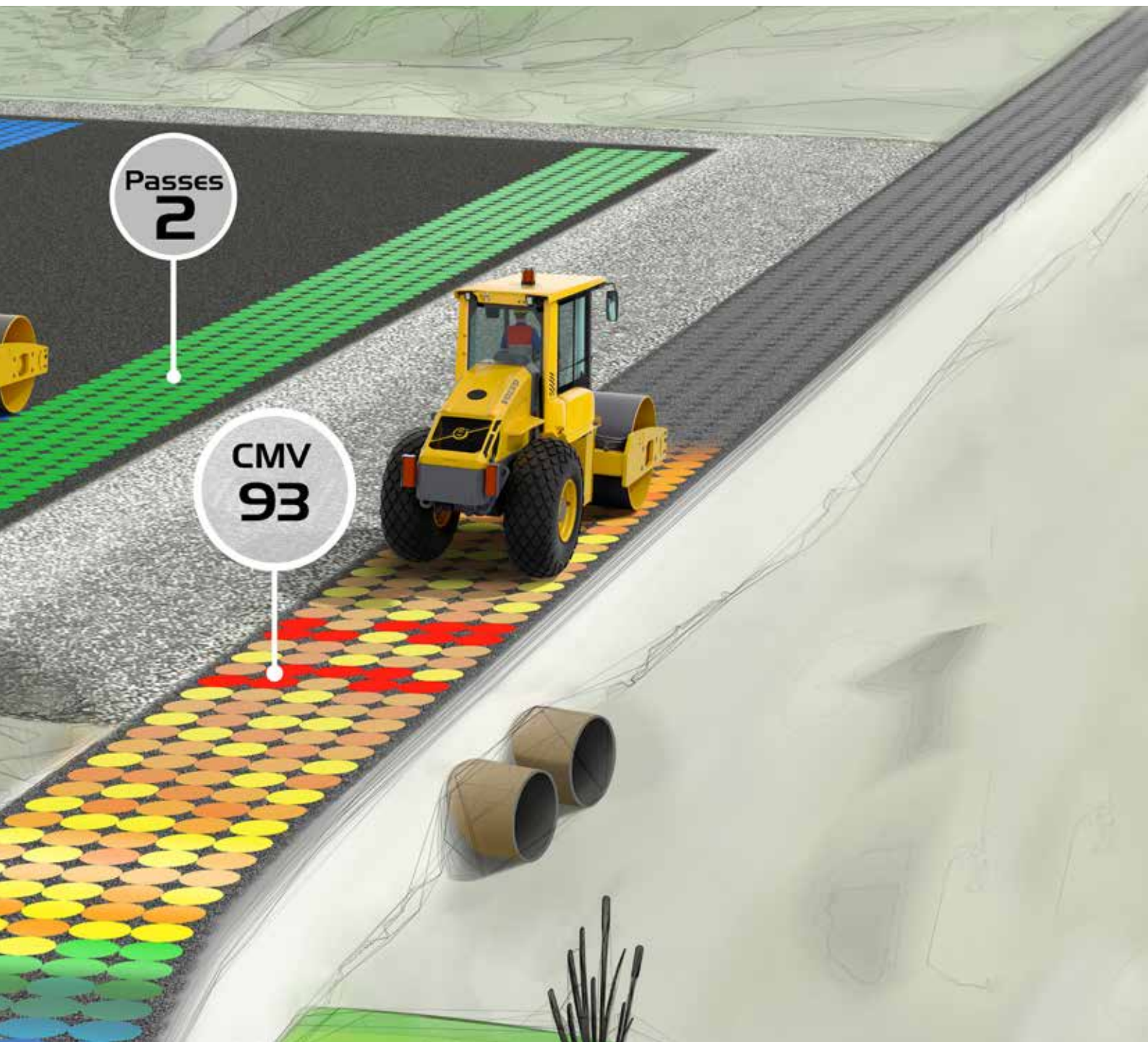
Visualize the whole job and keep track of where you have compacted. With Pass Mapping, you can easily see where you have already been and where compaction is still required, saving time and preventing unnecessary rework. Adding jobsite CAD data to the screen provides the operator with an additional layer of guidance.



# CMV MAPPING

## See beneath the surface

Whether identifying a soil mixture that is too wet, or any buried infrastructure, Compaction Measurement Value (CMV) Mapping provides a complete image of the load bearing strength of the jobsite. This helps operators to identify areas which require additional compaction or further investigation, ensuring the job is completed to the highest standards.



# Packages to fit your needs

## Compact Assist Lite **NEW**

Take your first steps towards improving the quality of your work with the Lite package. It integrates a simple compaction gauge and rearview camera within the Volvo Co-Pilot monitor, allowing the operator to track the progress of current and recently completed compaction, and giving them a clear view behind the machine. Upgrading to Start or Compact Assist in the future is easy.



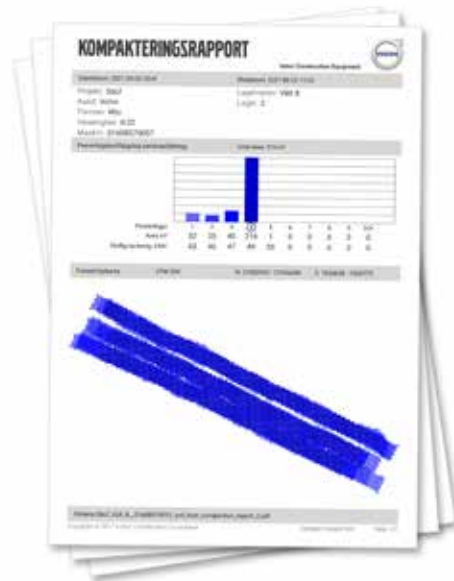
## Compact Assist Start **NEW**

This package includes the functionality of Lite, plus the ability to see completed work across the entire jobsite. It uses GPS data to provide the operator with a clear map of passes and Compaction Measurement Value (CMV).



## Compact Assist

This package includes all the functionality of Start, plus high accuracy location and data recording. It enables the creation of reports on the finished job and provides access to extensive detail on the performance of the roller, without the need for any post processing.



# Explore the detail

## TOOLS AND PACKAGES

	Compact Assist Lite <b>NEW</b>	Compact Assist Start <b>NEW</b>	Compact Assist
	Realtime measurements and visibility	Track your work	Accuracy and reporting
Real-time Compaction Measurement Value (CMV)*	X	X	X
Pass Mapping		X	X
CMV* Mapping		X	X
Integrated rearview camera	X	X	X
GPS antenna (high accuracy)			X
Job data recorded and saved			X
Automatic job report creation			X
Job File download (USB & OTA)			X
Over-The-Air software download**	X	X	X

## GENERAL

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
<b>Global Navigation Satellite System</b>		
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
GNSS (GPS) antenna (Compact Assist)	SBAS (Satellite Based Augmentation Service) Compatible with RTK/NTRIP for higher accuracy	1m / 36" Accuracy
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 (Volvo M20 Antenna)	Operating spectrum for mounted antenna	450MHz (UHF) & 915MHz (Spread Spectrum)
Additional external radio mounting	Radio kits can be purchased through aftermarket for non-compatible Base Stations from Topcon/Satel, Trimble and Leica.	
<b>Reporting (not available with Compact Assist Lite &amp; Start)</b>		
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 Volvo Co-Pilot display with a USB stick	
Over-the-air upload	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 S631 base station with all supporting equipment to setup the land base station. This kit complies with AASHTO PP 81-14 and most state agency IC specifications.
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\*Not calibrated.

\*\*Requires a SIM card and data plan.

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

Compact Assist is available for SD75B, SD115B

### Handy essentials

Volvo Co-Pilot comes pre-installed with Weather \*\*, Calculator and Notes apps.

### Over-the-air updates

Just as you would expect from your mobile phone, Compact Assist stays fully up to date with the latest software version, thanks to over-the-air updates.

### Easy to upgrade

As you continue to evolve how you use Compact Assist, you can easily upgrade the available functionality to the next level when you need it.

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