



Volvo Construction Equipment

VOLVO INTELLIGENT COMPACTION SYSTEM WITH DENSITY DIRECT

VOLVO ASPHALT COMPACTORS



THE BEST SOLUTION FOR ON-SITE QUALITY CONTROL

In its tradition of innovation, Volvo Construction Equipment puts the highest technology in your hands. Volvo Intelligent Compaction with Density Direct collects working data (temperature, location, vibration data) and runs it through an ANN (Artificial Neuronal Network), a self-learning algorithm that analyzes this data and converts it into a clear and easy to read display of the estimated density over the full material surface.

GNSS Radio/Receiver (GPS)
Standard DGPS (Differential Global Positioning System) that is RTK (Real Time Kinematic) enabled. Ask your dealer about the optional RTK base station and RTK rover.

Accelerometer
An accelerometer collects vibration data for the system to analyze.

Computer/Display Screen
10" color, touch-screen display mounted to the ROPS/FOPS structure records and stores all IC data.

Temperature sensors
Infrared temperature sensors located at the front and rear of the machine for real-time material surface temperature in the direction of travel.

What you get...

Pass mapping

Temperature mapping

Real-time Density Mapping

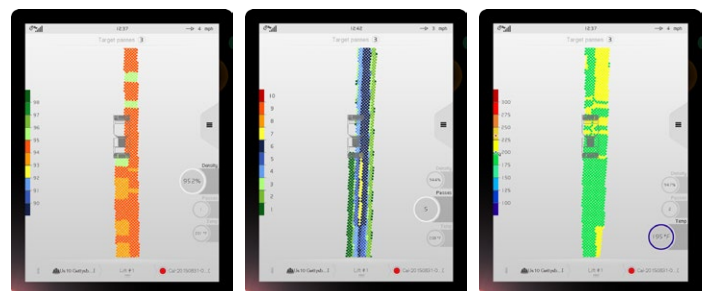
Accurate material density value
Full mat coverage

Data documentation (VETA format)

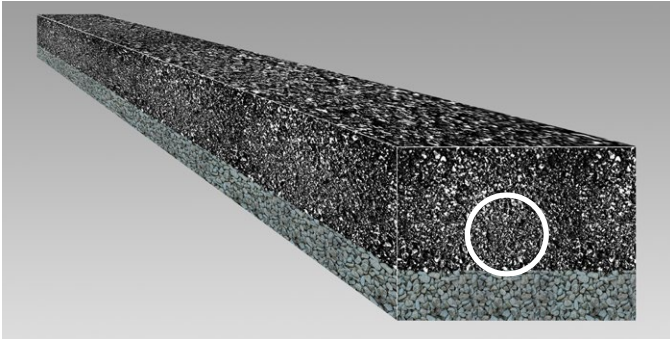
Day / night display mode

Pinch & zoom display function

Available for DD110B, DD120B & DD140B



Why Density is the true value



Density is, a measurement of how tightly matter is crammed together (meaning we are measuring the air void within the mat).

The density is the value which is assessed by DOT's.

What operators have to say about it



“As an operator, real time density makes it much easier to do your job. A lot of times, the Quality Control technician has more than one job on the road, so you can't always rely on him because he's doing other things as well as trying to help you out. It's nice to have what you need on the roller, because you can just look at the display and say 'OK I've covered that part of the road as many times as I need to, I have the right density, I can just keep moving', as opposed to having to wait, check with the QC guy and hold up the whole operation. It makes a smoother day on the paving crew!”

Joe Petracone
Roller Operator

The Volvo IC (Intelligent Compaction) in details

Volvo IC	Volvo IC with Density Direct
Temperature Mapping	● Temperature Mapping ●
Pass Mapping	● Pass Mapping ●
GPS Geolocation	● GPS Geolocation ●
Data documentation (VETA format)	● Data documentation (VETA format) ●
Base Station	○ Base Station ○
GPS Rover	○ GPS Rover ○
	Real-time Density Mapping (Density Direct)

● Standard ○ Optional



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www.volvoce.com/na