



Volvo Construction Equipment

DENSITY DIRECT

VOLVO INTELLIGENT COMPACTION SYSTEM



The Industry Game Changer

The Volvo Intelligent Compaction (IC) System with Density Direct provides pass mapping, temperature sensing and **exclusive real-time density mapping over 100% of the mat**. This patented technology, which is exclusively licensed to Volvo, has proven through extensive testing to be accurate to within 1.5% of core sampling, an accuracy equivalent to nuclear gauge testing.

With Density Direct, you know exactly when you hit the target density, increasing productivity and delivering a faster bonus.

That's **Smart Works®**.

Main Features and Benefits

- Pass mapping, temperature mapping and real-time density calculation
- Density calculation over the full mat surface
- All data documented for future reference
- Large display screen for easy reading with pinch/zoom and day/night mode
- Available for DD110B, DD120B & DD140B asphalt compactors
- Two options: Volvo Intelligent Compaction (Volvo IC) or Volvo Intelligent Compaction with Density Direct (See table on back for details)

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Because You Get Paid to Meet Target Density.

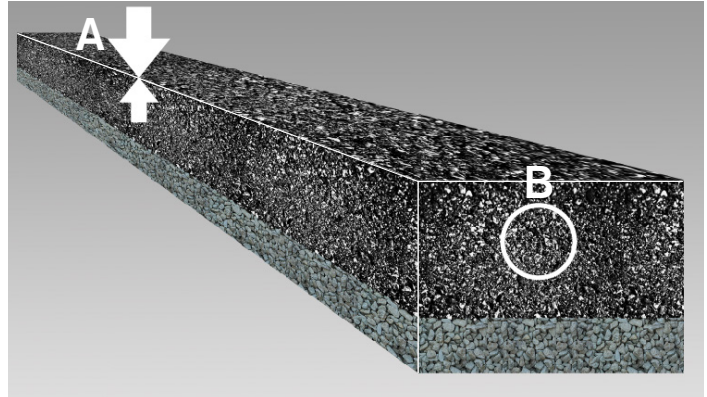
All asphalt projects that require a compaction value as a pay factor use relative density as a major specification. Density Direct provides a **true, real-time density value**, not just a Compaction Measurement Value (CMV) based on material stiffness.

Density, pass mapping and temperature are displayed simultaneously on the cab-mounted display, providing immediate feedback to the operator and the quality control personnel on the job site. Data is stored for future documentation.

Density Direct also limits core sampling to the initial calibration process and eliminates the need for nuclear gauge testing for quality control.

Learn more about this patented technology at www.volvoce.com/densitydirect.

	Volvo IC	Volvo IC with Density Direct
GPS geolocation	●	●
Data documentation	●	●
Pass mapping	●	●
Temperature measurement	●	●
Real-time density mapping		●



Definitions

A - Stiffness is the ratio of the force required to create a specified deflection or movement of a part. Stiffness is force/deflection, which is expressed in lb/in^2 or g/cm^2 .

Stiffness measures the rigidity of the asphalt surface, and provides an output in CMV. Experienced site foremen and operators can use nuclear gauge measurements and core samples throughout the course of a job to correlate the CMV to the relative density.

B - Density is defined as its mass per unit volume. It is essentially a measurement of how tightly matter is crammed together (meaning the amount of air voids within the material).

Density Direct gives the operator relative density in real time. **Once the system has been calibrated to the right density input, the operator has exactly what he needs to achieve uniform density across the entire mat.**

VOLVO

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