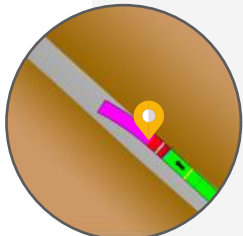


Compaction Analyzer

Quality Starts with you !

The process of compaction in pavement and subgrade material is a method of mechanically induced stress applied repetitiously to achieve a desired density to promote both short and long term performance. Compaction Analyzer refers to the compaction of road materials, such as soils, aggregate bases, or asphalt pavement materials, using modern vibratory rollers equipped with an integrated measurement system, an onboard computer reporting system, Global Positioning System (GPS) based mapping, and optional feedback control. CA rollers facilitate real-time compaction monitoring and timely adjustments to the compaction process by integrating measurement, documentation, and control systems. CA rollers also maintain a continuous record of color-coded plots, allowing the user to view plots of the precise location of the roller, the number of roller passes, and material stiffness measurements.



GPS



CA Display



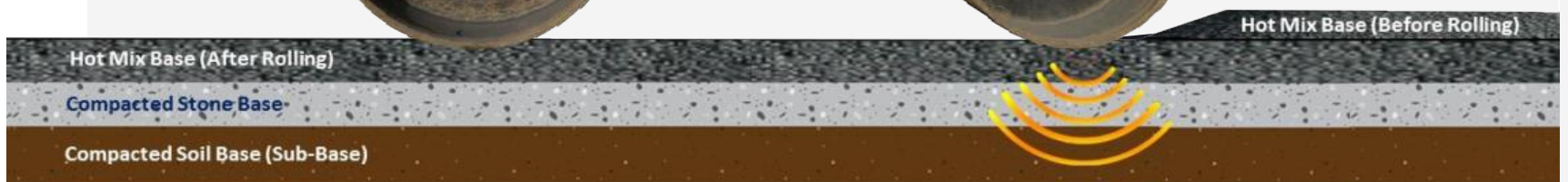
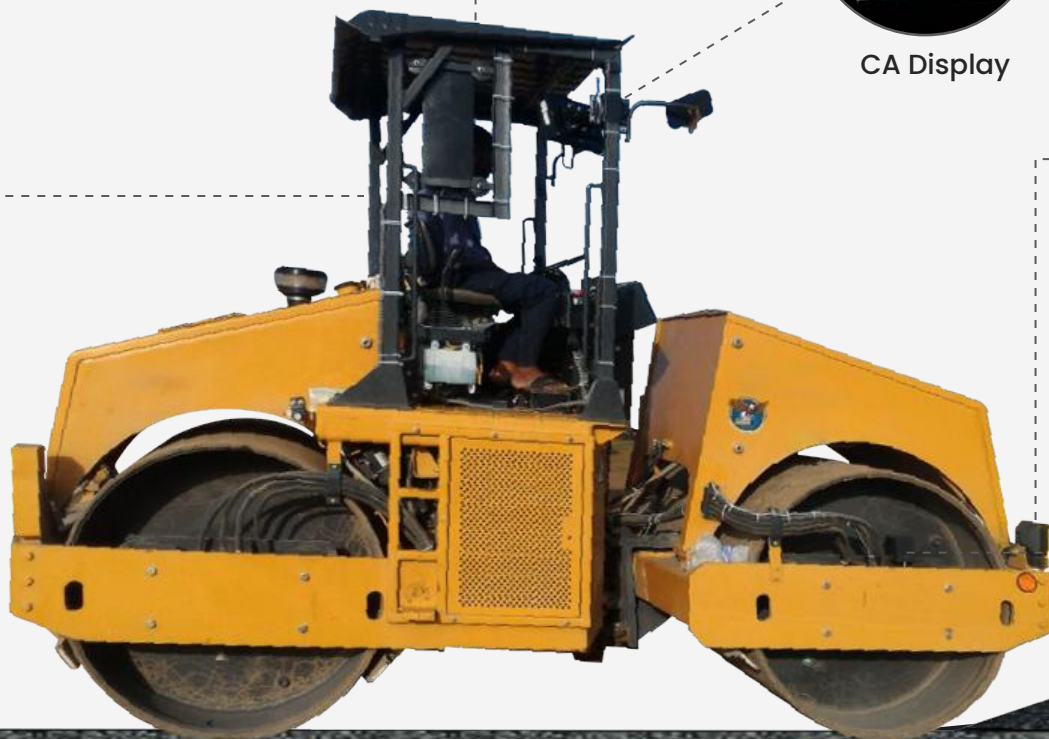
Temperature Sensors (IR)



CA Frame



Accelerometer

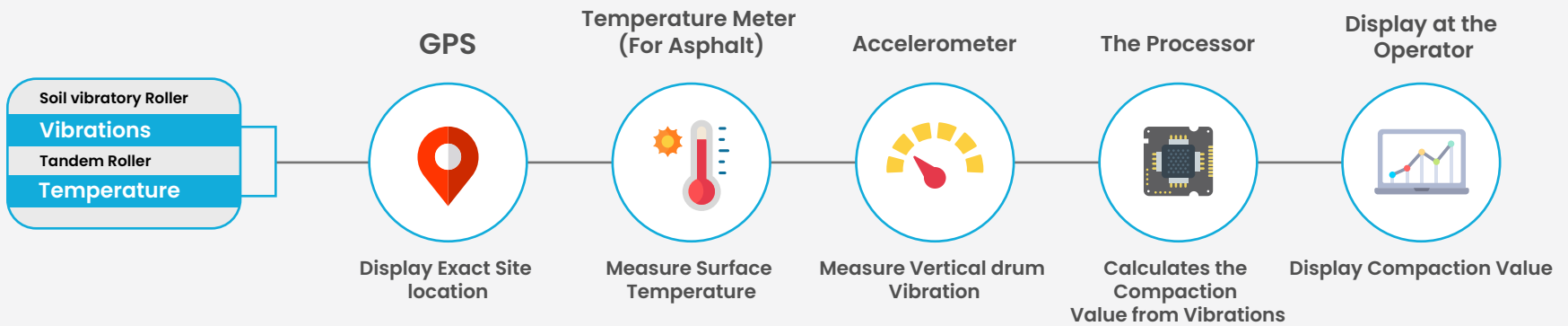


Assorted Features :

- Record the no. of forward & reverse passes with location, time, temperature, compaction details
- Measure and record rolling surface temperature by using server-based intelligent system (for tandem roller)
- Graphical display supported by software to monitor and record data onsite
- Analysis and storage of data received by compaction meter.
- Storage & analysis of compact meter data
- Adjustable resolution / brightness for display
- Report generation from the server in PDF format
- Detail analysis report of compaction with the server-based system
- User and operator friendly display
- Simulator mode present in all types of rollers

Advantages :

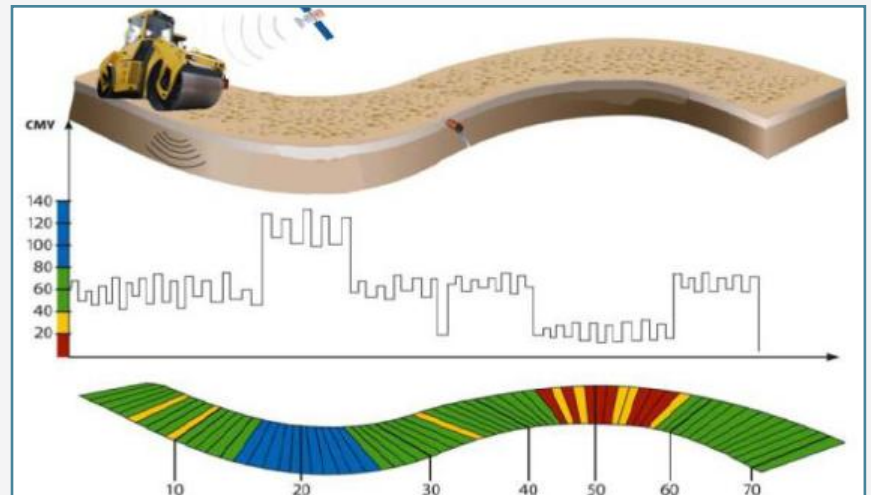
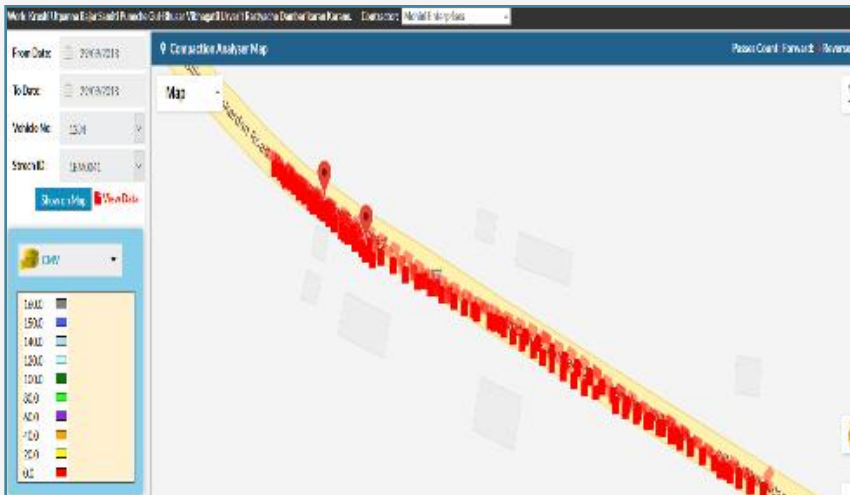
- Comprehensive, homogenous compaction measurement
- Quick installation and ease of operation
- High compaction quality with increased productivity
- Analysis can be carried out even years later
- Multiple access to data through server based support
- Simple and secure data archiving
- Improved depth of compaction achieved by continuous record of material stiffness values
- Proper compaction achieved using report generated by compaction analyzer
- Reduction of highway repair costs & other costs due to avoidance of claims



Compaction Analyzer Integration with SCADA for Quality and Efficiency :

Vasundhara Compaction Analyzer through its seamless integration with SCADA makes every pass of the roller count with compaction details. This makes compacting jobs to complete faster with more accuracy. Our SCADA system helps in measuring the compression measuring value (CMV) for

- ▶ High frequency, low frequency and amplitude
- ▶ Drum Accelerometer value
- ▶ Human machine interface
- ▶ Processing control unit
- ▶ GPS, GIS
- ▶ Number of passes and speed



Why choose Vasundhara?

Compaction is one of the most crucial processes in roadway construction. It is imperative to have excellent quality & uniformity of road materials for ensuring long-lasting performance. The validation of performance of road materials depends on optimum densities that ensures ample amount of strength, stability and support. We are offering the best CA aids to achieve these densities uniformly throughout this process.



Vasundhara IT Pvt. Ltd.
Service is Our Strength



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