

Wolf Paint Volume Solids Instrument

Excellence in Innovation

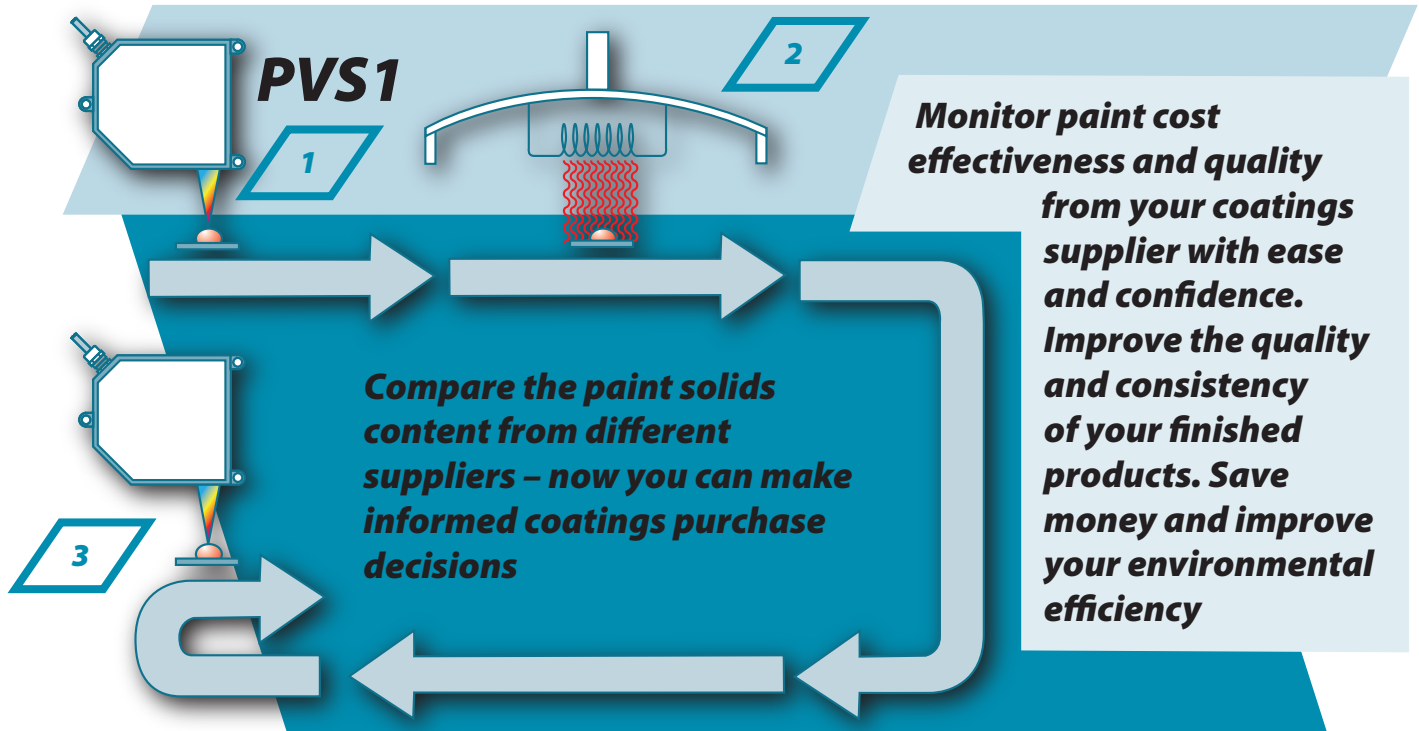
PVS1

wolf
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Precisely monitor production coating thickness in real time – no calibration is required regardless of paint system

The Wolf Paint Volume Solids Instrument is a compact and robust portable instrument designed for operation in industrial environments. It measures paint volume solid ratios so that the wet paint film thickness can be directly and reliably translated into the equivalent dry film thickness.

The system allows rapid and simple precise determination of paint volume solids. A tiny droplet of paint taken from the drum, paint tray, spray head, coating or pick-up roll is analyzed quickly with absolute precision. Results are stored automatically for future reference, statistical analysis and reporting.



Principle of Operation

The instrument precisely measures and compares the volumes of a tiny paint sample before and after curing. After measurement of the wet volume, solvents are driven out by a simulated cure cycle that matches production line curing conditions. The instrument can be tailored to simulate any industrial curing or drying mechanism or sequence. Once cured, the dry volume is measured.

Less than a drop of paint is required. Measurement is by non-contact laser sensors to an accuracy of better than 1 percent. Sophisticated algorithms convert sensor measurements into actual paint volume data. The analysis sequence is automatically controlled resulting in assured quality with minimal operator training. Measurements are as simple as inserting the sample into the instrument and initiating the measurement and analysis cycle. Paint volume solids data may be used as an input into the Wet Paint Thickness Instrument WPT1 to provide accurate prediction of dry film thickness on the finished product.