

Gloss & Emboss Measurement

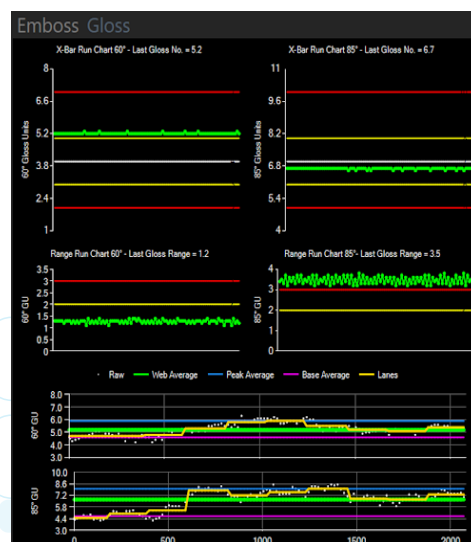
Raise the quality of your product and reduce waste with a gloss and emboss measurement system from Cross Automation.

When producing high volume products such as hard surface floor coverings, uniformity is key. In the flooring industry, the ability to maintain consistency across inventory is critical to avoid downgrading product.

While it is very common to use handheld gloss meters to spot check product, however this method is prone to human error. Whether intentional or not, operators can easily manipulate handheld meters to give the desired reading by checking at specific locations or holding the meter in a certain way.

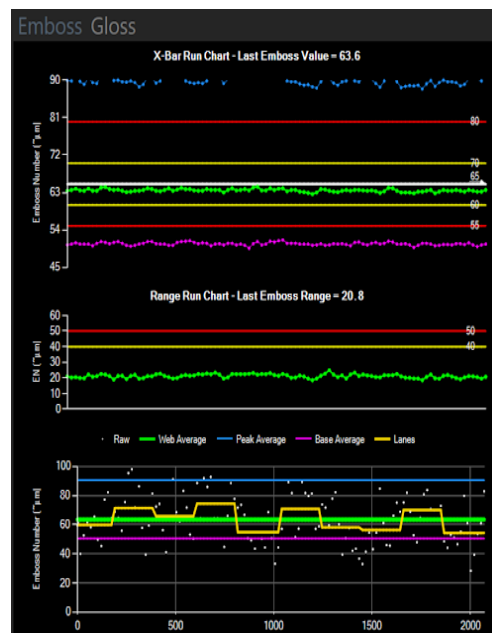
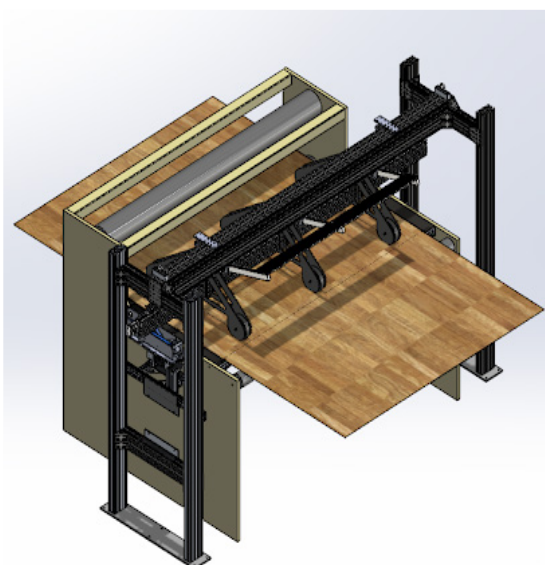
Gloss Measurement

We have worked with multiple customers to address gloss inconsistencies through automating the measurement process using an industrially hardened gloss meter. These meters are not subject to the same variables as handheld gloss meters, and thus decrease measurement variability. Additionally, this solution can be implemented anywhere in your process to allow for scalable integration.



Emboss Measurement

After extensive development, our team has created a method utilizing the data from 2D lasers to measure emboss consistency on materials such as flooring. Cross has created proprietary software that filters, levels, and summarizes the raw data from the laser. This information is then turned into an “emboss number” which correlates to the number of microns between peaks and valleys. By using the emboss number manufacturers can use real time data to ensure their product is running consistently.



Automation of gloss and emboss measurement also allows you to feed this objective data to your network and/or SPC system for real-time visualization and closed loop process control. This data helps you to make informed decisions about your process and verify that upstream processes such as curing and coating are working as intended. Ultimately, justification is built upon your ability to detect defects and track trends which will reduce both scrap and downgraded product.

If you are interested in improving your manufacturing process with an inline gloss and emboss measurement system, reach out to Cross Automation today. We have a team of measurement and automation experts ready to help you create the perfect custom measurement solution for your unique application.