

## *Post Process Gauging* *By Blake Savoy, Electrical Engineer*

Are you looking for a way to optimize production time while ensuring quality results? A post process gauge, often referred to as a PPG, is an excellent solution.

A post process gauge is used to measure the critical features of a part after it has been machined, generally using touch probes or air sensing, with a resolution to the thousandth of a millimeter. Some common part features that a PPG is used to inspect are diameter, thickness, grooves, threads, depth of holes, length, and flatness.

When used in conjunction with a machine that has a gantry loader, such as the MW120G, the PPG process becomes part of the machine's automatic cycle. Once the PPG gauges a part, the measurements are transmitted to the machine in order to automatically offset the process of the next part when needed. This continual compensation causes parts to remain within their tolerance specifications while minimizing the downtime associated with manually gauging and adjusting tooling offsets.

Adding a PPG reduces rejects, diminishes the risk of not recognizing a part that should be a reject, and cuts the labor cost of manual part inspection without compromising quality, thus optimizing overall production efficiency.

Below is an example of a PPG with touch probes to measure outer diameter and taper of a wheel hub.

