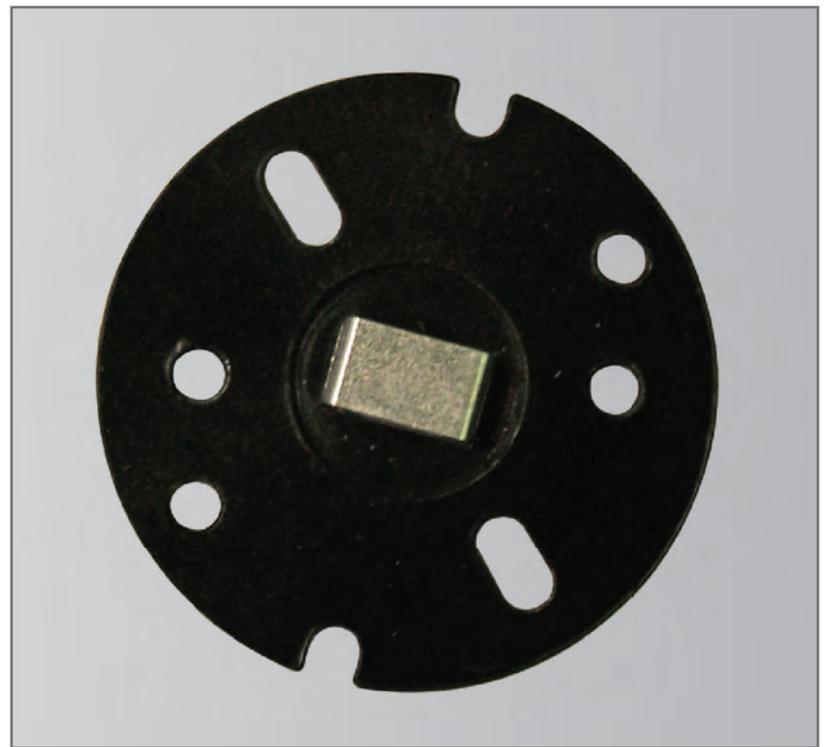


### Focus: LED Mount

In recent years, LEDs have begun to replace conventional lamp and bulb light sources in many applications. The trend of converting to all solid state light sources is most prevalent in the Automotive, Electronics and Consumer Products industries.

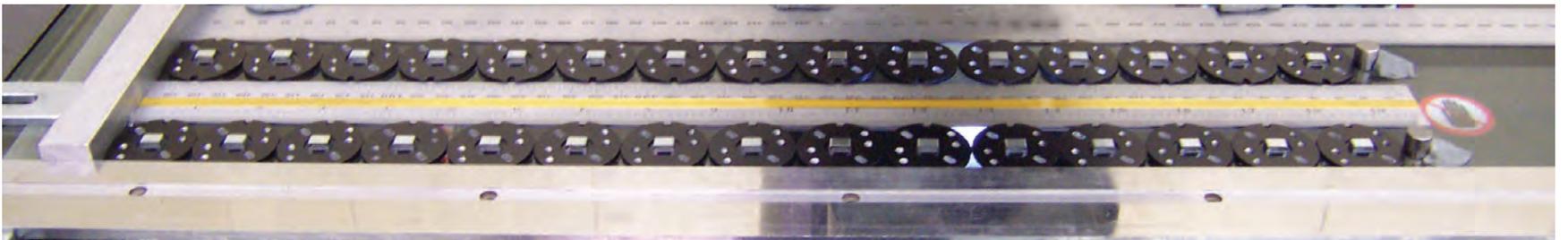
The vast assortment of LED types requires an equally vast assortment of mounting hardware and arrangements to fit the LED to the application. While LED mounts are not complex, they are often assembled using automated equipment requiring snap fit tolerances, which in turn requires dimensional inspection as part of the manufacturing process.

LED Mounts are typically small stamped or machined parts which would traditionally be measured using hard gaging or a manual inspection system. These methods rely on costly tooling or on the operator's skills and experience to make accurate measurements. For high volume production, either method is inefficient.



LED Mount

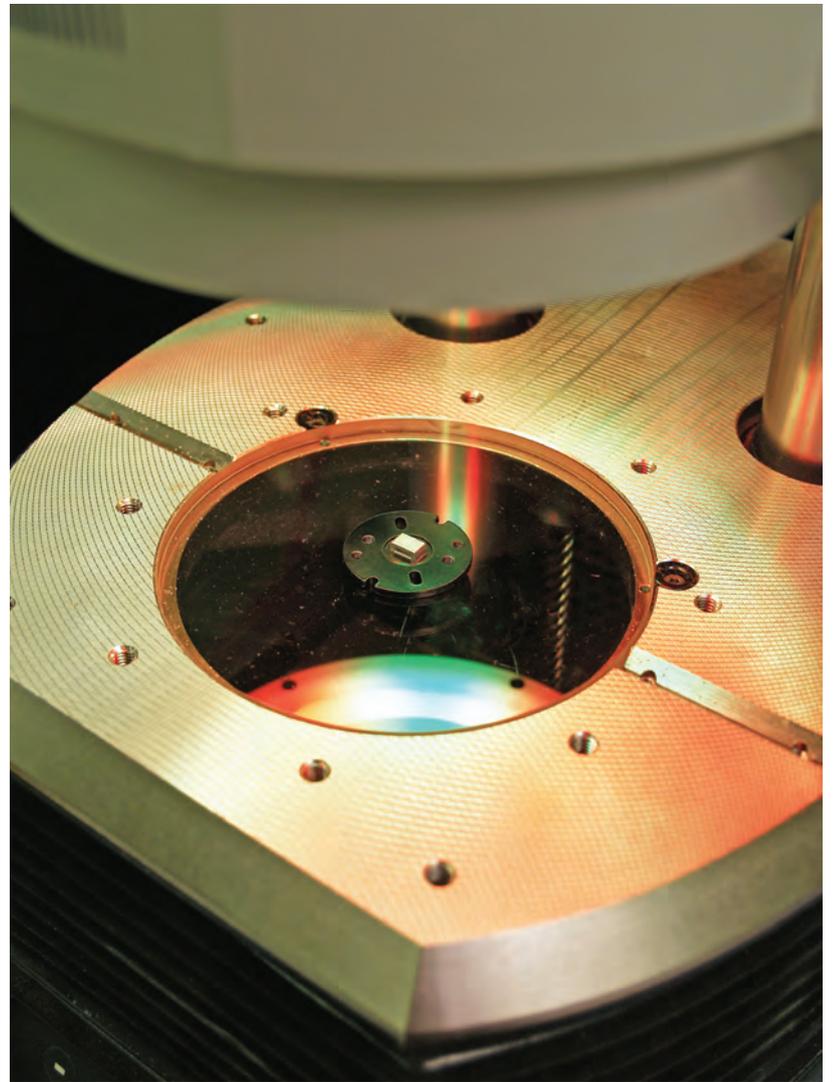
**Challenge:** A manufacturing company producing LED mounting hardware sought a measurement system that would allow significantly reduced inspection time while ensuring the accuracy required for snap-fit assembly. To inspect parts, the company was using a vision measurement system that required a complex fixture setup and complicated programming to inspect all key features.



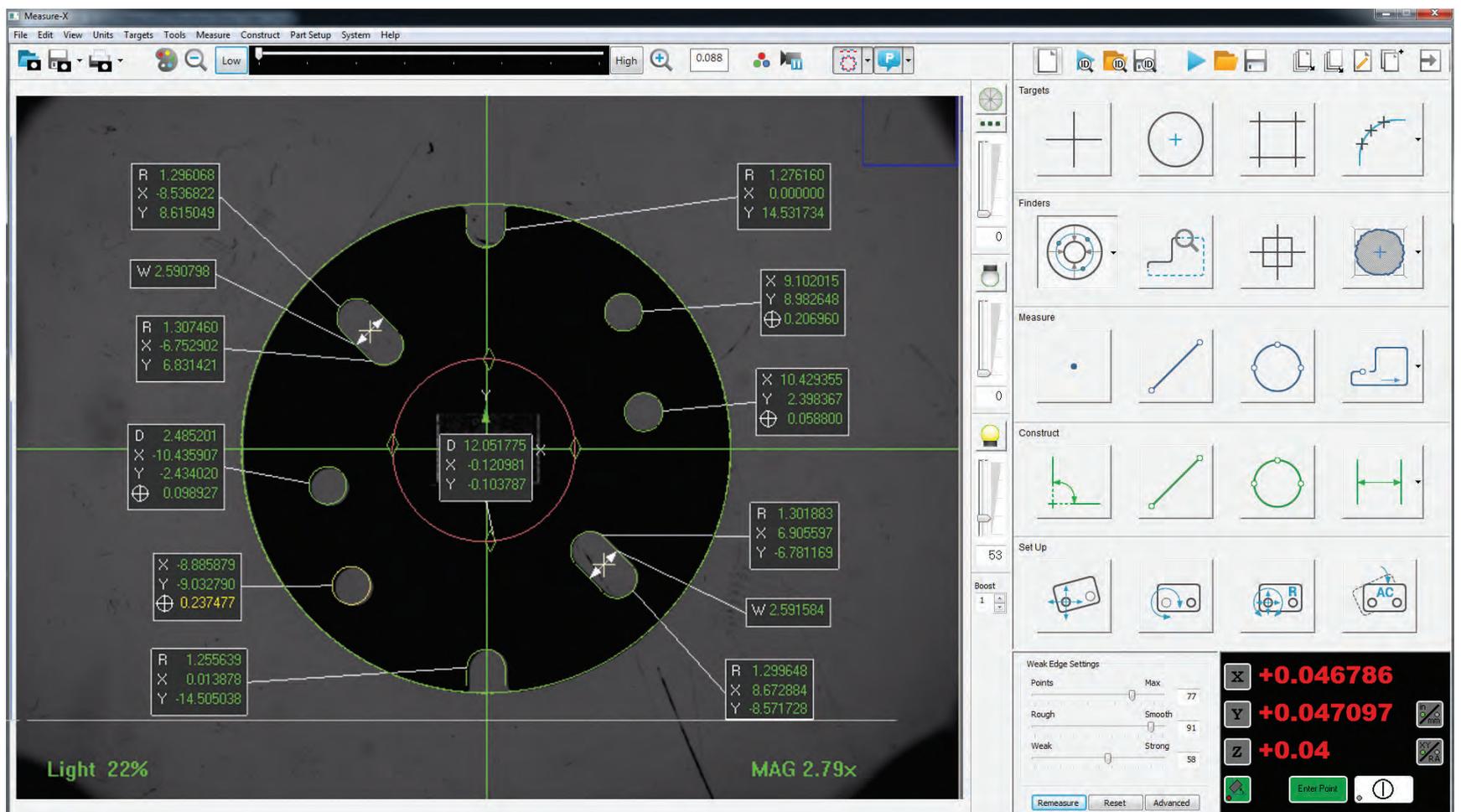
Before: LED Mount Fixture Setup

**The QVI® SNAP Advantage:** QVI SNAP's large-field-of-view measuring technology is ideal for small precision parts like LED mounting hardware. SNAP's 3-inch field of view allows the entire part to be imaged in a single snapshot, measuring all features simultaneously. SNAP required no fixturing for this application, saving the company time on setup. SNAP-X software made programming easy, automatically identifying parts for measurement at the touch of a button.

**The Result:** QVI SNAP, large-field-of-view technology successfully reduced inspection time of LED Mounts by 66% compared to conventional measurement. SNAP effectively measured 13 features on the LED mount in 20 seconds compared to 1 minute per part using conventional methods. Setup and programming time was reduced by eliminating the need for part fixturing and by using the streamlined SNAP-X user interface layout and automatic part identification feature. By switching from conventional methods of measurement to the QVI SNAP for this application, the company managed to reduce overall inspection time, resulting in a reliable, cost effective solution.



After: LED Mount on QVI SNAP



SNAP-X Measurement Overlay