

Automotive Wheel Lug Dimension Verification System

The wheel lug inspection system by Integro Technologies uses 3D-Laser profiling technology to evaluate key measures of refurbished rims that indicate overall rim stability while driving.

Once wheels are loaded into the system, two cameras create 3D height maps of the top and bottom of the lug regions.

Once scanning is complete, customized software locates the serialized wheel 1D/2D barcode, two air stems, backplate planarity, lug hole surface flaws, and other critical dimensional measurements. All measurement data is stored and associated to each individual wheel's serialized barcode number in a database.

Finally, the wheels are sorted according to the measurements' tolerances by a robotic cell further down the production line.

