

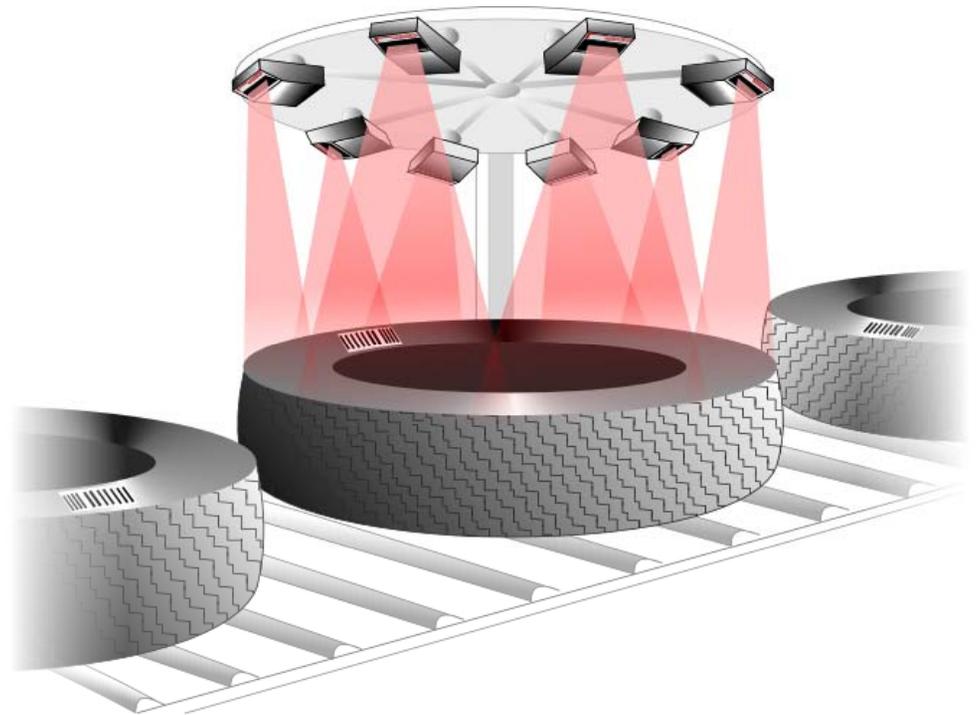
AIDC for Industry

**Reading bar codes on tires
ensures integrity
of manufacturing process**

Reading multiple bar codes

In the last couple years, the integrity of the tire manufacturing process has been under constant scrutiny. As a result, it is even more critical for a major tire manufacturer to have a reliable, work-in-progress tracking system in place.

To accomplish this, the manufacturer installed several laser raster bar code scanners to read the bar codes on the side walls of the tires as they passed through the manufacturing facility.



The symbol

Code Types: 15 mil Code 128 bar codes
Thermal printed, black on white

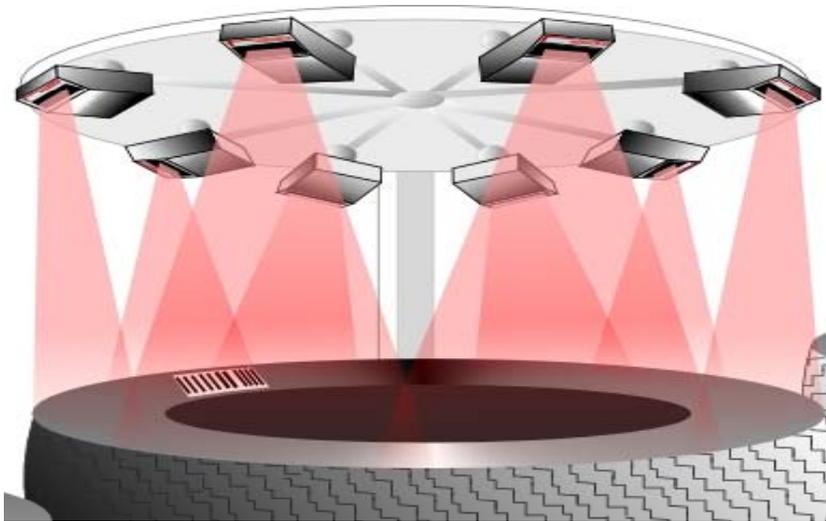
Application: The bar code labels were applied to the sidewalls of the tire in one orientation.

Since the bar code label could appear in any clock position on the tire, a special solution was needed to read the bar codes as the tire traveled down the conveyor.



The installation

Once the tires are bar coded with the labels, they are then placed into position on a conveyor belt traveling at 30 feet per minute. Since the bar code labels were hand-applied, in addition to being skewed, they could also appear anywhere within the 360 degree radius of the tire.



In order to ensure that the bar code was read every time, an array of 15 laser raster scanners were installed above the conveyor and daisy chained together. Their programmable sweeping raster covered the entire area of the tire, allowing them to pick up all of the bar code labels regardless of their orientation without slowing down conveyor speeds.

Why the Laser Raster Scanner



The laser raster scanner provided the following features:

- Programmable sweeping raster
- Daisy chain capability
- High scan speed

The bottom line

By using the array of fixed mount scanners over the hand-held system, the manufacturer was able to ensure that every bar code would be scanned and logged into the system, providing them with a reliable record of the manufacturing process of each tire without slowing down production.



More information

- If you would like further information about the laser raster scanner, we recommend you check out the product specifications or additional applications demonstrating its capabilities
- If you have questions regarding this topic, send us an e-mail to training@microscan.com