COGNEX

TIRE IDENTIFICATION SOLUTIONS

Barcode Readers

Tire manufacturers require reliable code reading solutions throughout all production stages — from receiving raw materials to final assembly. When the lifecycle of a tire spans multiple locations, buildings, cities or countries, tire identification is essential to manage compliance, WIP (work in progress), sorting/routing and quality control.

Read failure can cause slower throughput, production inefficiencies, costly rework, and reputation damage. Cognex vision technology offers tire manufacturers peace of mind:

- Industry-leading read rates
- DataMan® barcode readers have no moving parts providing a lower cost of ownership
- Fewer systems can cover a larger field of view, saving overall installation costs and maintenance
- Image-based readers allow you to "see what the reader sees" to support troubleshooting and continuous improvement efforts
- Cognex products support industrial protocols for easy integration with factory networks and systems

Tire identification challenges

> Tire orientation and line speeds can vary greatly

> Ideal reader position is difficult to achieve due to varying tire heights and barcode perspectives

> Printed labels are easily damaged from stage to stage

> Physical constraints and government mandates require smaller codes and more data

DataMan 300/360 high resolution barcode reader series

Applications
- Spinning tires
- Green vulcanized tires
- Under belt
- Hanging chains
- Omnidirectional conveyors

Features
- Three resolution options:
  - 800x600
  - 1280x1024
  - 1600x1200
- 60 reads per second
- Up to 250 ft/min (1.5 m/s) transport speed
- Customizable to any application

www.cognex.com/300

Xpand™ technology

Features

- Increases reader coverage across the belt, without adding readers or moving parts
- Compatible with the DataMan 300/360

Benefits

- Higher read performance
- Increase coverage without adding cameras
- Redundancy achieved with fewer cameras
- Fewer cameras allow faster data processing, increasing throughput

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