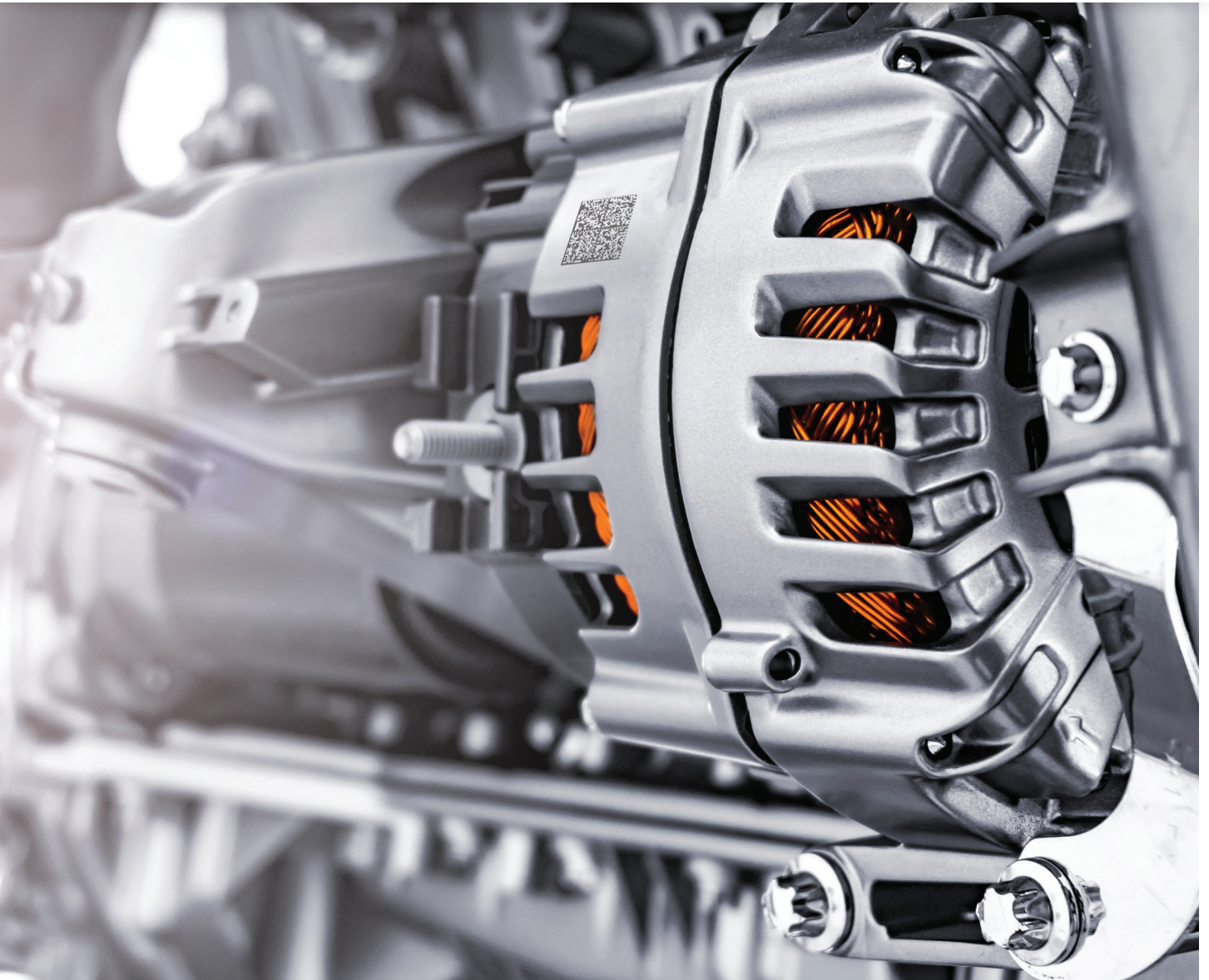


# Automotive traceability solutions

Technologies for ensuring quality, consistency and compliance



- Track parts with direct part marks, labels and RFID tags
- Verify, read and communicate data throughout the production process
- Take advantage of Omron's extensive industry knowledge



# An end-to-end solution for traceability

From applying the marks to communicating the data to the enterprise level, Omron's traceability technologies comprise a complete solution.

## **Direct part marking**

Encode lot numbers, serial numbers and other key information in durable laser markings to track parts throughout their life cycle and across the supply chain.

## **Labeling inspection**

Fit all the necessary information into concise, streamlined labels for easy track and trace.

## **Barcode verification**

Ensure the quality of your direct part marks and printed barcodes to prevent no-reads down the line.

## **Barcode reading**

Employ barcode readers that are designed to withstand the harsh conditions of the automotive factory floor.

## **RFID**

Read and write important data related to part identification and work-in-progress status as part of a flexible traceability solution.

## **Data communication**

Take advantage of controllers that communicate traceability to the enterprise level without slowing down the production cycle.





# MVRC: Mark, Verify, Read and Communicate

## The components of an end-to-end solution

At Omron, we think of traceability in terms of the four main requirements for a working system – a way to mark parts, verify the marks, read the data and communicate the data to the rest of the system.

### Marking: MX-Z Laser marker

Our high-resolution laser markers offer the kind of high-quality, permanent part identification that industrial traceability demands. They mark characters as small as 0.1mm (100µm) on a variety of materials, including stainless steel, iron, copper, gold, silver, aluminum and plastics.



### Verification: LVS-9585 off-line and LVS-7510 in-line verifiers and print quality inspection

Advances in laser marking technology spurred the need for verifiers that could analyze extremely small codes. Our LVS-9585 verifiers have been recently upgraded with ultra-high-density inspection capabilities to grade codes twice as small as the current GS1 minimum.



### Reading: MicroHAWK Barcode readers

This popular series of industrial barcode readers includes four models that enhance traceability and flexible manufacturing with best-in-class liquid lens auto-focus technology, including new long range functionality, and high-performance X-Mode decoding algorithms.



## Reading: HS-360X Handheld Barcode Reader

Rugged enough to withstand the harsh conditions of the automotive factory, the HS-360X boasts an impact-resistant, IP67-rated casing. Advanced X-Mode algorithms capture codes of all types and qualities on shiny, textured and curved surfaces.



## Reading: V780 UHF RFID System

This ultra-high-frequency RFID system is an all-in-one solution that includes a reader, an amplifier and an integrated antenna for traceability applications. The V780 enhances flexibility with a long-range reader/writer that accurately tracks mixed model production.



## Reading/Verification and beyond: HAWK MV-4000 and FHV7 Smart Cameras

Smart cameras don't get any smarter – or faster – than these unique machine vision solutions. With near-PC processing power packed into a compact and rugged casing, these cameras are all-in-one solutions for code reading/verification, gauging, measurement and quality inspection.



## Communicate: NX1 Machine Automation Controller and Omron InduSoft

The ideal controller for scalable and flexible production lines; the NX1 integrates machine control with information utilization, quality management and safety over multiple networks without compromising control performance. Omron InduSoft is a software interface that provides HMI visualization and integrated logging of data to local, enterprise databases and cloud-based systems.



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