AUTOMOTIVE SOLUTION

Label Inspection Helps Suppliers Facilitate Rapid Processing for Auto Production

OVERVIEW

Problem
Difficult to Read Barcodes Directly Impact Vehicle Production

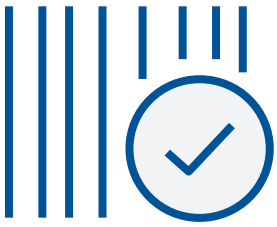
Background
Readable Barcodes are Critical for Rapid Processing on Auto Assembly Lines

Solution
Automated Label Inspection with ODV-2D

PROBLEM
Difficult to Read Barcodes Directly Impact Vehicle Production

Vehicle production is growing again after the COVID pandemic, with expected volumes to exceed 80 million vehicles this year. Each automobile requires hundreds of components, making vehicle assembly an intricate dance of ensuring the right component is available at the right time in the right place. At the heart of the action is the receiving dock where incoming components from dozens of different suppliers are received, checked in, and routed to the point where they are needed. And the entire process is enabled by the barcodes on the pallet label that contain the critical information needed to identify the incoming shipment contents.

Imagine the chaos when incoming barcodes are incorrect, missing, or unreadable?



BACKGROUND

Readable Barcodes are Critical for Rapid Processing on Auto Assembly Lines

Auto manufacturers explicitly call out barcode label quality in their supplier manuals, advising the supplier that the label is the very first impression the company has of the supplier. Why are labels so important?

Automobiles are built in an assembly line with tracks that carry the vehicle from station to station for the addition of windshields, dashboards, doors, and other components. Robots or human workers select the correct component for the specific vehicle from a bin and place it onto the vehicle as it moves past. If the needed component is not in the bin when the worker reaches for it, the assembly line must be stopped. Stopping the line impacts the production of every vehicle on that line, resulting in production delays, lost revenue, and added cost.

Any delays at the receiving dock can impact the precise timing of the delivery of bins to the right assembly station. A delay in the delivery of a bin could cause a parts shortage at the assembly line and require the line to stop. Because of this, auto manufacturers need to ensure that incoming shipments are processed without delay. The incoming label is the key to rapid handling, so the auto companies have a significant interest in the barcode readability of incoming labels.

Auto manufacturers have ways to incentivize suppliers to ensure that the incoming labels meet the company's standards, often in the form of fines. As a supplier, it is prudent to adhere to the quality standards by inspecting the labels prior to shipment.

Barcode inspection eliminates the need for operator intervention and no extra equipment, software, templates, or manual action is needed. So, how do you inspect every barcode on every label and get a report demonstrating the label quality generated?

SOLUTION

Automated Label Inspection with ODV-2D

Suppliers are strongly encouraged to inspect every label prior to shipment. Spot inspections still require additional equipment, software, and labor to inspect the label, but are unlikely to catch errors that occur at a rate of a fraction of a percent. Yet, this fraction-of-a-percent error rate can add up to hundreds or thousands of errors per year and trigger "assistance" from the manufacturer to help resolve the label quality issue.

Inspecting every label ensures that no bad labels are sent, avoiding any punitive actions. Inspecting the label in the printer where action can be taken is even smarter. And the smartest idea is to use ODV-2D verification and validation to inspect as it automatically finds, reads, and grades every barcode on every label. Barcode inspection eliminates the need for operator intervention and no extra equipment, software, templates, or manual action is needed. So, how do you inspect every barcode on every label and get a report demonstrating the label quality generated? Simply print the job, that's it! ODV-2D does the rest automatically.

RECOMMENDATION

Our Enterprise, Integrated ODV-2D Barcode Inspection Printers

Our enterprise-grade industrial ODV-2D barcode verification and validation printers enable suppliers to inspect every single barcode automatically. Because the barcode inspection system is integrated within the printer's footprint, there is no need for additional templates, servers, software, separate devices, or modifications to your printers. This delivers the ultimate peace of mind, knowing your shipments will arrive with high quality, readable barcodes that facilitate your customer's production line.

With our T8000 and T6000e Enterprise Industrial ODV-2D Printers, the printer and integrated scanner talk to each other, enabling the scanner to know the location of every barcode label printed. The printer's built-in scanner automatically finds and grades every barcode and passes the grading information back to the application in real-time. And if a bad barcode is discovered, the scanner tells the printer to back the bad label up and overstrike it so it is not used, automatically reprinting the label without operator intervention.

T8000 4" ODV-2D

T8000 6" ODV-2D

T6000e 4" ODV-2D

CONCLUSION

Visit our website for more information about ODV-2D, barcode inspection, and optimizing supply chain processes by ensuring all barcodes are easily read at the receiving location.

To learn more about this solution, please contact your local sales representative.