



## Daimler Makes New Discoveries in the World of Safety with Datalogic Readers

### Daimler Collects Product Safety Data with Datalogic's PowerScan™ PM8300 and Dragon™ M Readers for Simultaneous RF Transmissions

#### Overview

Daimler is a British motor vehicle manufacturing company that has produced an impressive product range and some of the most valuable brands in the automotive industry. Their state-of-the-art production plant in Sindelfingen, Germany employs approximately 36,000 people and produces hundreds of thousands of Mercedes-Benz luxury passenger cars per year.

#### The Challenge

According to German legislation, manufacturers, suppliers, importers and car dealerships are liable for damages due to defective products. This law requires all product data, such as supplier information or production details, to be recorded.

Furthermore, product parts must be identifiable and associated with the respective supplier. By tracking the parts in this way, the supply chain becomes "closed" and complete traceability is then guaranteed to ensure part safety for customers.

Daimler's safety-relevant components are registered after installation. In this way, the unequivocal allocation of parts with the respective car can be ensured and the parts liability are documented. To achieve tracking, all parts are labeled with a bar code from driver and passenger airbags to upfront sensors.

To optimize the work processes in production and ensure compliance with new German legislation, Daimler decided to install a new system to record installed components based upon bar code scanners. In some cases, however, these components are difficult to access and the operators' workstation ranges 20.0 m / 65.6 ft which requires a flexible

## DAIMLER

#### Customer

Daimler

#### Industry

Manufacturing

#### Application

Work in Progress

#### Country

Germany

#### Datalogic Product

PowerScan™ PM8300

Dragon™ Mobile

system that does not interfere with the production cycle. An additional requirement was for the bar code scanners to be able to be used simultaneously without interfering with each other.

To render the solution simply and quickly, Daimler asked for an integrated solution that is open to future extensions.

## The Solution

Daimler founded their new system to record installed parts based on Datalogic Scanning's premium industrial handheld reader, the PowerScan™ PM8300 and the Dragon™ Mobile.

First, Daimler integrated the Dragon RF reader into their system. This reader has a coverage of 50 m / 164 ft and can be used without causing problems on the production line. All security-relevant components can be easily scanned while moving or in positions which are difficult to reach (i.e. in the engine compartment or under the seat.) The operator can move around the car without a cable interfering, and the production process is not disrupted. The maximum possible flexibility is assured. All readers in the plant are standards products and can be used anytime without special adaptations.

Several point-to-point systems installed in one room render the use of several readers at the same time. With this system, each scanner is assigned to a determined workstation and a distinct address is assigned for each scanner to ensure that even when all readers send at the same time, the respective data arrives at the right place.

A quick and secure RF transmission is ensured by means of the CSMA/CA protocol. Here, as soon as the Dragon sends the data to the base station, the system carries out a plausibility check. If the entry is successful, then an acknowledgement occurs in the form of a notification on the display and an acoustic tone.

Meanwhile, several hundred units of the follow-up model, the PowerScan PM8300, were installed. This reader features an IP65 rating and is drop resistant up to 2.0 m / 6.5 ft, which safeguards Daimler's investment.

Narrow band radio communications with Datalogic's STAR Cordless System™ is the key to increased productivity and flexibility in the workplace. It offers scalable solutions from simple point-to-point applications to networking capabilities combined with seamless roaming for complex installations. An optional display with a 3-button keypad provides time and battery status and enables operator interaction with the host system.

## The Results

After installing the Dragon M and then the PowerScan PM8300, Daimler is now able to assure complete traceability in the supply chain by associating installed parts with a supplier. Furthermore, the company is able to precisely define recalls of cars in which a security risk has been detected. This will save Daimler time and improve the safety and timeliness of their response to recalled parts in their automobiles tremendously.



© 2005-2010 Datalogic Scanning Inc. • All rights reserved. • Protected to the fullest extent under U.S. and international laws. • Copying, or altering of this document is prohibited without express written consent from Datalogic Scanning, Inc.

Datalogic is a registered trademark of Datalogic S.p.A. in many countries and the Datalogic logo and Dragon are trademarks of Datalogic S.p.A. • PowerScan is a registered trademark of Datalogic Scanning Inc. • All other brand and product names may be trademarks of their respective owners.

Product specifications are subject to change without notice.

SS-DAIMLER-EN REV B 20100219

[www.scanning.datalogic.com](http://www.scanning.datalogic.com)