



Industry Solutions for Auto ID

Decoding dot peen 2D Codes for aero-engine manufacturer

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Work-in-progress tracking

As a part of the “Air Transport Association SPEC 2000”. manufacturers are required to mark and track each part used to assemble an airplane.

Before they automated the data capture process, the manufacturer had previously been using a manual system to track the 10,000 parts that make up an aero engine.

Now that the parts are marked with 2D codes, the manufacturer needed an automated tracking system to replace the manual documentation system.



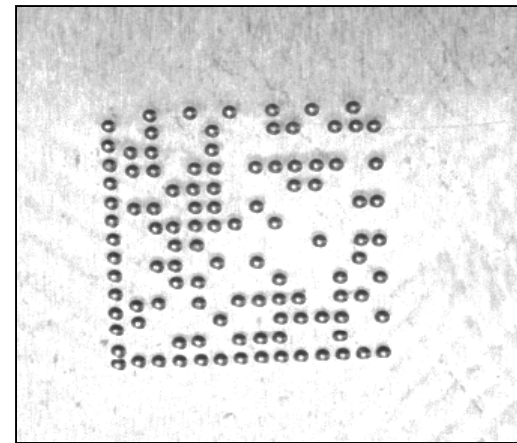
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The symbol

Code Types: Data Matrix
Dot peen on metal substrates

Application:

The Data Matrix codes are permanently applied by the percussive method of dot peen. This type of application relies on changes in depth to create the light and dark areas rather than changes in color.



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The installation



Since the parts range in size from small metal tubes to large fan blades, they needed a wireless solution that would enable the operator to move around the part to access the 2D code, instead of having to maneuver the part closer to the scanner.

The DPM hand held imagers were installed to interface directly with the manufacturer's current network system. Using the imager's Bluetooth wireless interface, the scanned data is automatically stored in a nearby data terminal where it can be accessed in real time by several departments.

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Why the DPM handheld readers



The DPM handheld readers provide the following features:

- Robust optics, capable of reading low contrast dot peen codes under challenging lighting conditions
- IP settings database
- Wireless communications, up to 300 feet radius
- Easy to integrate

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The bottom line

By automating their data capture process, the manufacturer was able to ensure that the right parts were going on the right aircraft engine assembly.

The results: fewer tracking errors, more on time shipments, and increased customer satisfaction.





More information

- If you would like further information about the DPM hand held imagers, we recommend you check out the MS-Q and Mobile Hawk product specifications or additional applications demonstrating the DMP handheld imagers' capabilities, located on our website.
- If you have questions regarding this topic, send us an e-mail to training@microscan.com