



"World's Smallest Barcodes" for injection moulding

Do you need static UDI
on your medical devices?



Critical information **directly** on the part!



features

Direct Part Marking during molding

imZERT nanostructured barcodes are applied via inserts in the mold cavity. imZERT permits any information and any standard, to solve any traceability challenge.

Machine-readable barcodes

imZERT barcodes have the highest optical contrast of any engraving-based DPM technology. They scan with smartphones, Vision systems and handscanners.

Very small sizes feasible

imZERT scans at least down to 2.4x2.4 mm², depending upon optics and lighting. Even smaller sizes are possible, as is microwriting for anti-counterfeit.

Works with all colors – also on black and white plastic!

imZERT barcodes are tested to work well on transparent, black and white plastics.

Works on all polymers

The method has been tested with all standard injection molded polymers, and with molded elastomers. Hot-embossing also feasible.



No change in validated processes

imZERT nanostructured barcodes have been tested using standard parameters, and are found to replicate in all plastics under typical molding conditions.

No contamination – No equipment

Nanostructured barcodes remove any need for print or labels. There is no further work or machinery. There is no risk of contamination or production breakdown.

Solve more of your traceability challenges

Traceability markings on small parts

For the first time ever: machine-readable information on small medical devices

Static UDI on small plastic parts

UDI-DI or GTIN number verifiable on the part

Parts verification during assembly

No more mix-ups – avoid combining unintended parts

Intelligent production flows

Virtual production lines – Industry 4.0 vision must include parts identification

Automatic Quality Control

Quality scans and processes can now verify part automatically

Speed up of re-call investigations

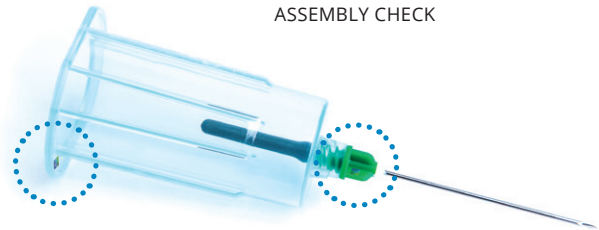
Accurate parts identification reduces investigation scope and limits damages

Sub-supplier control

Inserts act as physical keys to control supplier production and limit “over-run”

Documentation ID on R&D parts

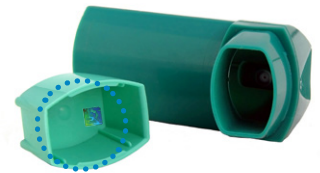
On-part ID for documentation of device development and materials testing



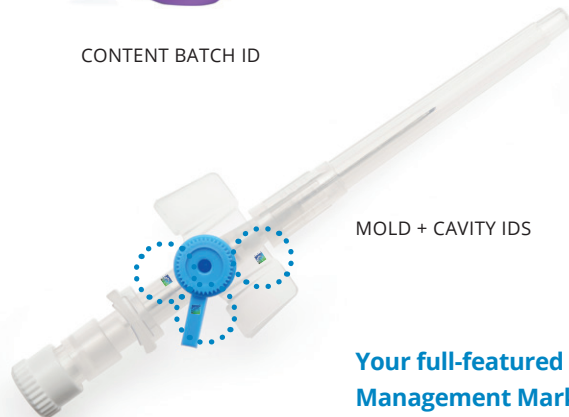
ASSEMBLY CHECK



CONTENT BATCH ID



CMO + CUSTOMER ID

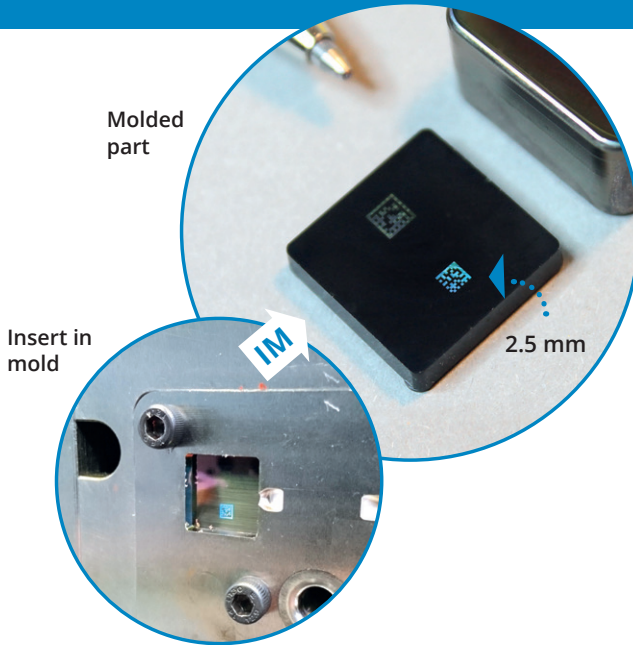


MOLD + CAVITY IDS

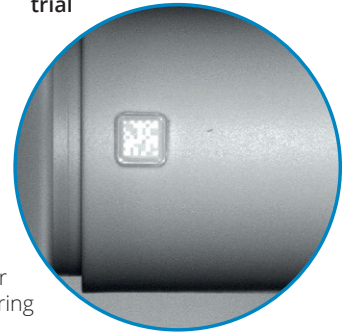
Your full-featured Quality Management Marking System!



in the mold



Customer trial



Purpose

Mold cavity number to avoid mix-up during assembly

2.4 mm X 2.4 mm
10x10 Datamatrix barcode
White PP plastic
Scans in Vision system

Contact us now!
for advice, samples...



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DEVELOPMENT KIT:

Try imZERT for yourself!

***9 barcodes (different sizes and content),
delivered as inserts or as a single plate.***

Order Now!