

# INSTRUMENT STERILIZATION

Data Matrix Traceability Solutions



**MICROSCAN®**

Precision Data Acquisition  
and Control Solutions

# TRACEABILITY SOLUTIONS FOR STERILE SURGICAL INSTRUMENTS & OTHER MEDICAL DEVICES

## Track, Trace and Control

Today's healthcare facilities require the history of all stages of manufacture of a specific product and the origin of all its components. Traceability can be used to find places where each individual instrument was stored, handled and used during its entire life-cycle. Microscan specializes in Data Matrix reading and traceability solutions, and designs custom products to meet the stringent needs of hospitals and other healthcare facilities.



### Microscan traceability solutions offer:

- Optimization of assets
- Effectiveness of recall procedures of instruments
- Assurance that processes and procedures have been followed in their entirety
- Identification of all patients having been operated on with any instrument (as far as permitted by the database)
- Enhanced patient safety
- Limitation of the scope of potential liability claims brought to the facility

## Track Complete Life-Cycle of All Surgical Tools including Sterilization and Procedures

### IN AND OUT OF SURGERY



- Transfer to operating room
- Use within surgical procedures
- Transfer to sterilization platform

### IN AND OUT OF STERILIZATION

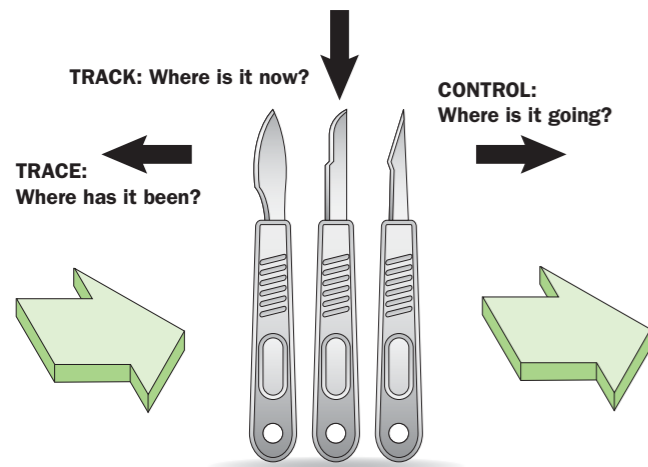


- Transfer to sterilization platform
- Cleaning
- Control and reconstitution
- Conditioning
- Autoclave sterilization

### IN AND OUT OF KITTING & INVENTORY



- Transfer to storage
- Sterile encasing
- Sterile storage



**TRACK (Present)**  
Auto ID and machine vision are used to track parts that are work-in-process, or "WIP".

**TRACE (Past)**  
Traceability is the ability to recreate or "trace" the manufacturing steps, processes, or location of a part before it becomes a completed assembly.

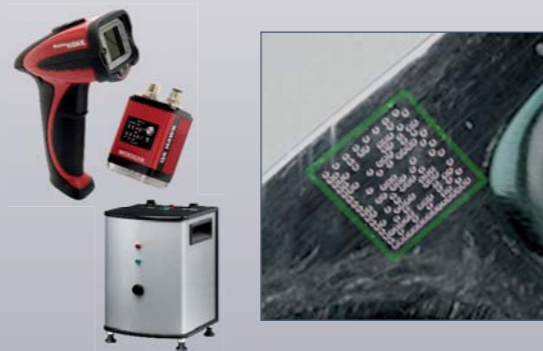
**CONTROL (Future)**  
Control is used to decide what step or future process a part must undergo, or to ensure quality and verify packaging.

### Using Data Matrix for Traceability

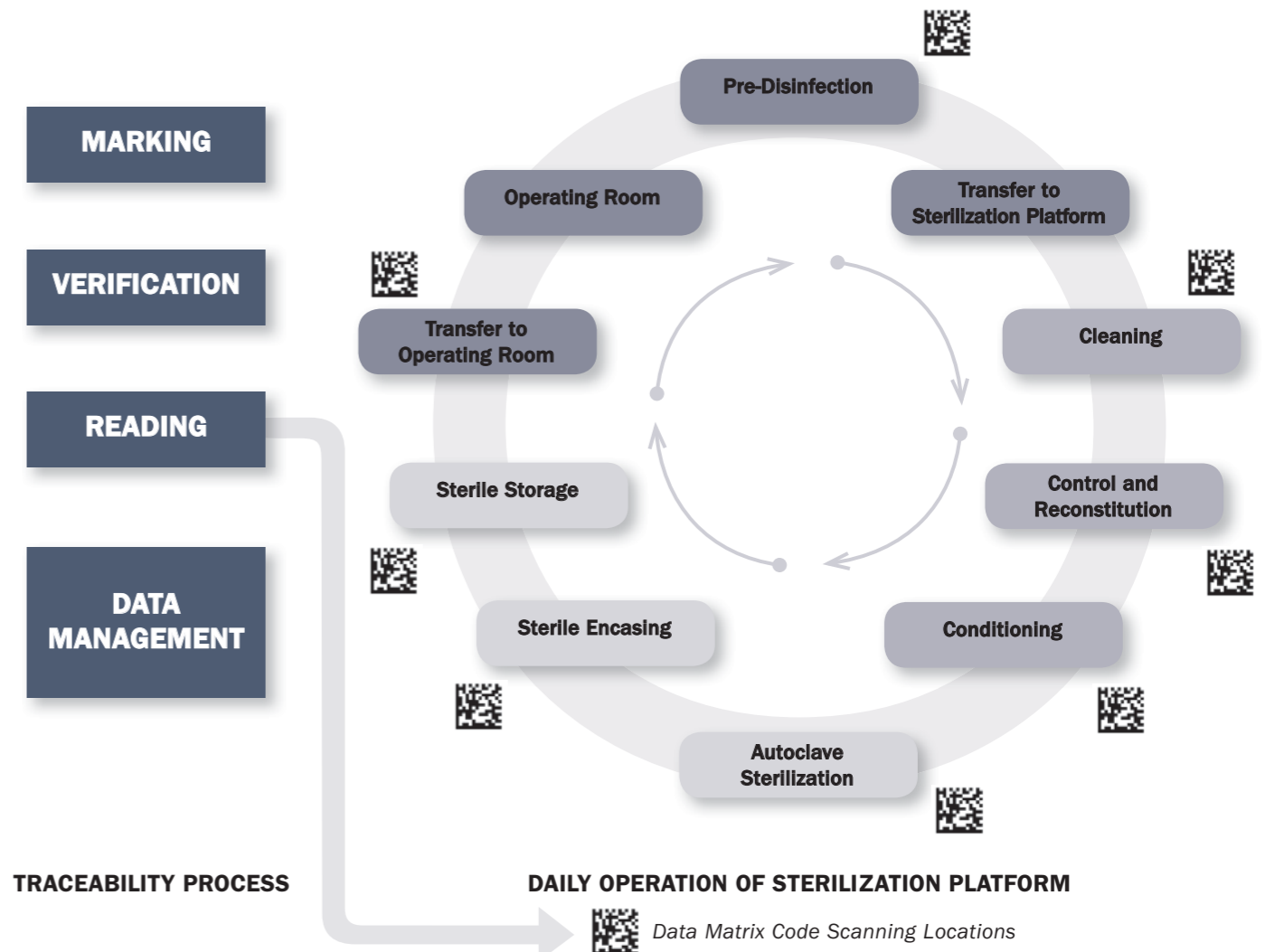
Since its development, Data Matrix symbols have allowed identification of parts and products by direct part marking with no intermediate carrier (tag, name plate, etc.) needed.

Direct part marking ensures that the identifier and the object are identified and remain inseparable during the entire life-cycle of the product, which is an important guarantee of security in healthcare facilities.

Data Matrix symbols allow the implementation of marking technologies such as laser or dot peen directly on instruments and other medical devices.



Multiple readers decode and verify any Data Matrix marked by any means



TRACEABILITY PROCESS

DAILY OPERATION OF STERILIZATION PLATFORM

Data Matrix Code Scanning Locations

# COMPANY & PRODUCTS

Microscan is the #1 global provider of embedded barcode scanners and imagers for healthcare professionals. Our barcode and machine vision products help companies around the world to drive down cost and waste, automate critical manufacturing processes, and increase yields through precision data acquisition. As an ISO 9001 certified company recognized for quality leadership, Microscan is known and trusted by customers worldwide as a provider of quality, high precision products.

## AUTO ID Barcode Readers, Data Matrix Readers & Verifiers

- Microscan offers fast, reliable barcode readers for all standard linear barcodes and 2D symbols. Features include small size, high speed reading, wide field of view, symbol reconstruction, and aggressive decoding technology.



HS-1



HS-2D



Quadrus® MINI



QX Hawk



DPM Verifier



Code 128



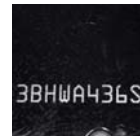
Code 39



GS1 Databar



Data Matrix



Optical Character Recognition (OCR)



Direct Part Marks



Code 93



I2 of 5



PDF417



Mobile Hawk with Presentation Stand

## MACHINE VISION Software, Hardware & Lighting

- Microscan holds one of the world's most robust patent portfolios for machine vision technology. Our products include machine vision software, smart cameras, and lighting for applications such as identification, inspection, and measurement.



Visionscape®



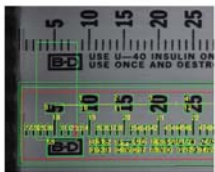
VS-1



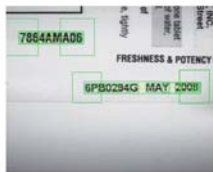
GigE Camera



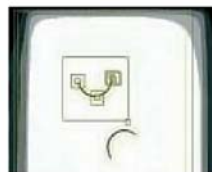
NERLITE®



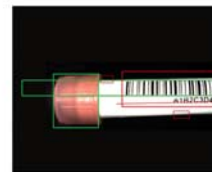
Optical Character Verification (OCV)



Date/Lot Tracking



Product Inspection



Cap Presence/Position



Item Traceability

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