

## CHALLENGES

Cosmetic spray manufacturing needs to be **precise and repeatable to ensure an effective user experience**. However spray nozzles - or actuators - have a small aperture that is difficult to make with precision - a key point as it's diameter is a critical parameter for the spray's operation.

Reliable and accurate control of this aperture can ensure product quality and customer satisfaction. Control speed and simplicity must **fit to the requirements of large-scale production**.

## SOLUTION

**METRIX ID** is a solution for the control of diameters. It is based on a pneumatic principle and is adapted to spray nozzles :

- For the control of the internal diameter of apertures and the detection of potential obstructions
- With a very good gage R&R and a measurement uncertainty ranging between +/-10 and +/-150  $\mu\text{m}$ , depending on the measured diameter and on the necessary calibrant's dimension uncertainty

The solution uses software for the recording and storage of control data.

## BENEFITS

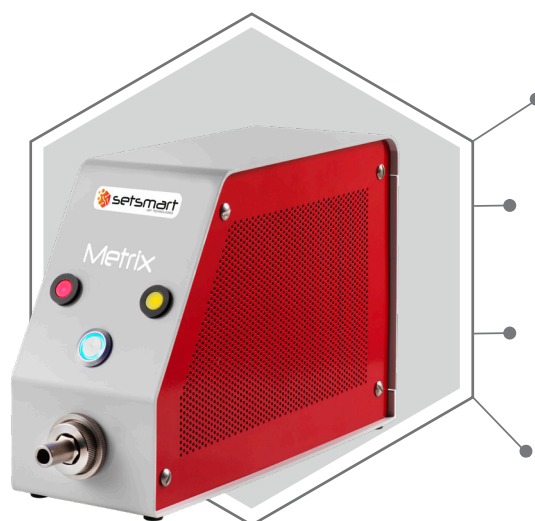
### Quality and user experience ensured

- By the accurate and precise control of the aperture's internal diameter and absence of obstruction

### Compliant with large scale production needs

- Control within seconds
- The solution is easy to use by non-specialists
- Control data are traceable thanks to software

## METRIX ID



### ACCURATE AND PRECISE DIAMETER MEASUREMENTS

Down to micrometers or better, and low R&R gage

### VERSATILE MEASUREMENT

Adaptable to a large range of diameters, control depths and shapes of parts  
 One base unit can be connected to various sensors for multiple measurements

### FAST AND EASY CONTROL

Quick testing (within seconds), independent of the operator's skills

### MADE-TO-MEASURE ANYWHERE

Installation possible in any work environment