

CHALLENGES

Large scale manufacturing of food packaging such as drinking cups, pots, or other containers, face many challenges such as continuous production of quality products. This is ensured by **reliable, fast and economical** control of product dimensions.

All packaging must respect defined dimensions, thickness and other geometrical specifications to achieve the required properties : stiffness, resistance, capacity to be efficiently stocked and handled automatically, etc.

SOLUTION

METRIX GEO is a solution for the control of forms and dimensions. It's adapted to drinking cups, and is equipped with :

- a zone for loading the lots for control
- a 6-axis robot for handling parts between various control stations
- a thickness measurement station
- an outer dimensions measurement station (diameter, taper)
- a weighing station
- an unloading zone with sorting of compliant and non-compliant parts
- software for recording control data and assignment to the controlled part

BENEFITS

Fast and economical solution

- much faster than manual control: about 2 seconds per measurement, less than a minute for a full control cycle
- automation improves productivity
- parts of various forms can be controlled with a single instrument

Reliable control

- Thickness measurement accuracy within one micrometer
- Outer dimensions measurement accuracy better than 10 micrometers
- Repeatable measurements, independent of the operator's skill and attention level
- Digital traceability of measurements

METRIX GEO



VERSATILE SHAPE AND GEOMETRY MEASUREMENTS

- of straightness, perpendicularity, parallelism, roundness, coaxiality, concentricity, groove depth, etc.
- of various types of objects : the number and position of sensors are tailored to the part's design

ACCURATE AND PRECISE CONTROL

based on contact (tactile) transducers, contactless pneumatic transducers or a combination of both

UNATTENDED OPERATION OPTIONS

with automation to save operators time for more value-added tasks