

DCM

“DOT CODE MAPPING”



PURPOSE

The Dot Code Mapping (DCM) system was developed by Zipp3D Industrial to help glass manufacturers reduce waste and improve automation capabilities associated with container identification.

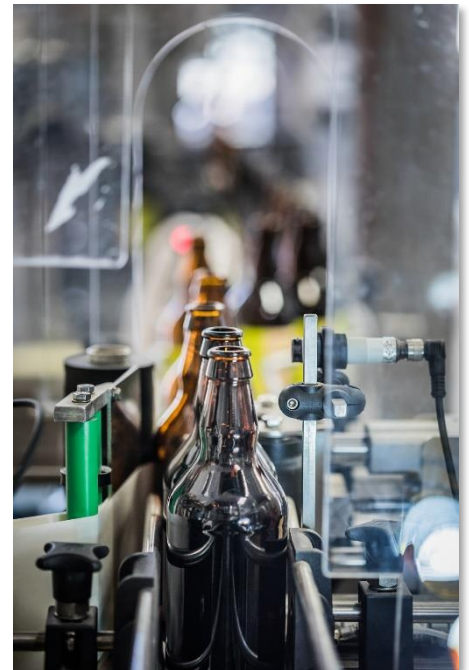
HOW IT WORKS

The DCM technology reads dot codes from glass containers using advanced Machine Vision (MV) methods and makes the mold identifier available to people and automation.

VALUE

The identification of the mold on the line can be critical to improving efficiency and reducing waste, both goals affect the bottom line.

The identification allows for immediate, and decisive action by personnel. Systemic defects can be responded to more effectively when the product can be identified by mold. Identification can be integrated before, with, or after other manufacturing cells process product.



Machine Vision Cell

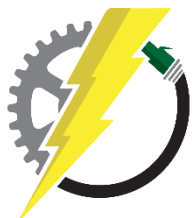
FORM FACTOR

The DCM technology is comprised of camera(s), lighting elements, one or more single board computers and network interfaces. Zipp3D's modular design ensures that the solution can be integrated in a variety of ways depending on the design. The camera(s) can be moved or set to a fixed position. For example, a robotic arm can be used to move a container within a camera's field of view or move the camera itself around or by containers. These dynamic deployment options allow integration into even the most demanding environments.

INTEGRATION

DCM allows mold identification to be used within the Enterprise between systems. By correlating mold to defects and other data, the DCM output is necessary to collaborate analytics, defects and other data with molds.

Zipp3D has partnered with Commonwealth Process and Packaging, Inc. to provide DCM integration across the country. DCM is now available for integration using robotics or with other commercial off the shelf solutions as requested.



COMMONWEALTH
PROCESS & PACKAGING

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DCM can be used in a variety of ways, such as:

MONITOR PRODUCTION LEVELS

... to identify a mold for a container that is being scrapped, after, or in concert with quality control inspection cells.

... to identify which molds are the cause of waste.

... to signal the need to create more product due to waste (by tracking volume of a production run).



Palette of Wine Bottles



Human Quality Inspector

SAMPLING AND PICKING

... to identify one or more molds, for which some product can be pulled off the line for automated or manual inspection.

... to identify product to pull off the line for a customer during a facility tour or production run.

MOLD-TO-FILL

... to identify bottles needed for filling in automated lines. Manufactured bottles of various types or sizes can be selected for filling automatically since it is possible to discriminate the type, size, and quality of a container.

AUTO-SORTING BY MOLD

... to utilize the picking process by mold to move or sort containers from one line to another, either for purposes of Quality Control or Filling, etc.

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