

## 3D SCANNING: AUTOMATIC MOULD MEASURING

ariScann aims to provide automatic mould scanning and measuring. The device provides highly accurate 3D scanning, along with a specifically developed software that allows automatic dimensional control of moulds.

Fast. Accurate.

Lower priced than analogous 3D scanning systems.

Scans different parts of a mould and automatically constructs a full 3D model.

Automatically measures:

- Internal and external diameters to desired levels - not to just the edges but the whole perimeter as well.
- Internal Volume.
- Wears on the mould surface.
- Other: coupling, pomp-outs, ramps, cylindrical and conical diameters.
- Base parameters: height, width, marks, diameter.



## APPLICATIONS

- Dimensional control of multiple parameters. Compared to theoretical value and / or the last measurement.
- Reverse Engineering. Obtaining 3D.
- Calculation of wear and volumes.
- Comparison with theoretical 3D.
- Traceability of mould: Register in the Database of historical previous measurements (3D wear, coats, etc).
- 3D of other solid measurement:
  - Bottles.
  - Tooling, punch, etc.
  - Any solid in general.
- Automatic 3D composition of any solid complex composed of different pieces



# ariScann

## OPERATION

ariScann provides **high-speed scanning**, capturing the environment in just **1''**.

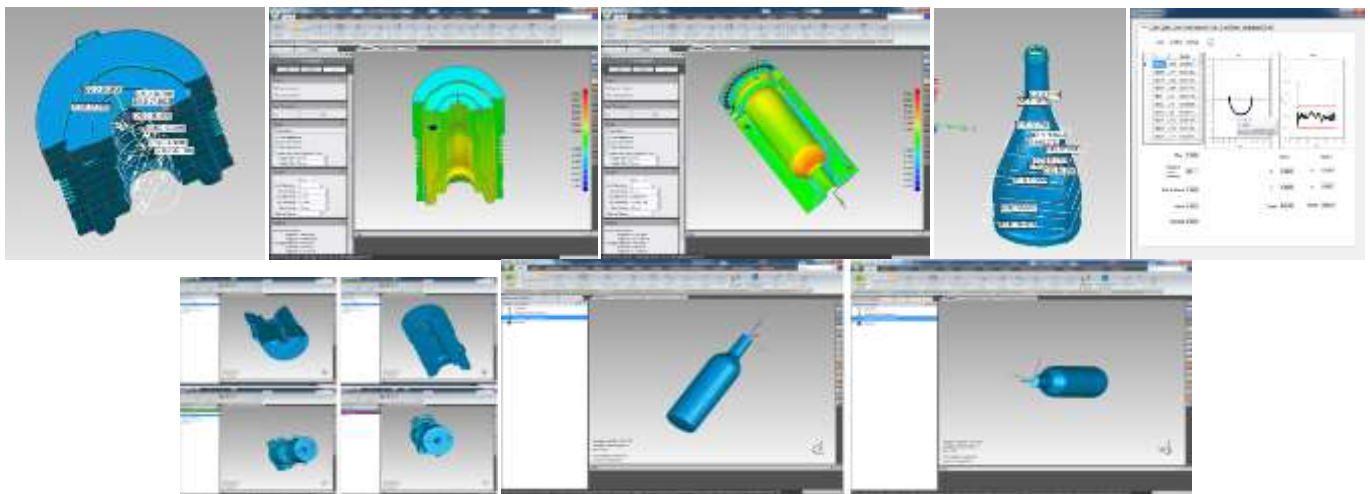
Quickly captures measures of **complex shapes** to create 3D models of physical objects.

Process:

- 1º.- The mould is **identified** in the HMI.
- 2º.- It is automatically singled out in the database and **preset measurements** to be made to the mould are determined.
- 3º.- Pieces comprising the mould are scanned and a **full 3D model** is reconstructed.
- 4º.- Full dimensional **report** on the aforementioned mould is provided, including **full-colour 3D wear assessment and virtual volume of bottles**.

## ADVANTAGES

- Measurement of the parameters **IMPOSSIBLE** to be measured with old traditional techniques:
  - **Wear** with 3D colored map.
  - **Virtual volume of the bottle**.
  - Diameters in **ALL the perimeter** not only on the edge.
  - Others: **couplings, pomp-outs, ramps**.
- **Objective**. It is not linked to worker's expertise.
- **Traceability**. Due to data measurements historic we know its evolution and its lifetime.
- **Easy to carry**. Portable equipment.



## FEATURES

- **Accuracy**: 50 microns
- **Speed**: **3-5 minutes**. Scanned, procurement of 3D of a complete mould and issue of an automatic measurement report.
- The 3D can be **exported** into extended formats: 3DS, STL, OOGL, PLY, OBJ, LWO, CRP, WRP, DXF, VRML, IV
- Possibility to **import** CAD from the following formats: IGES, VDA, Neutral, Parasolid, SolidWorks, Catia, NX, SAT Pro / Engineer, PRT, STEP 203/214.

## AUTOMATION

Possibility to develop new measurement patterns tailored to each client, as a **turnkey solution**.

So that it could be made in a fully automated way the scanned and automatic measurement of **other parameters**, different from the current product capability and the automatic issue of the report with results analysis and interpretation.