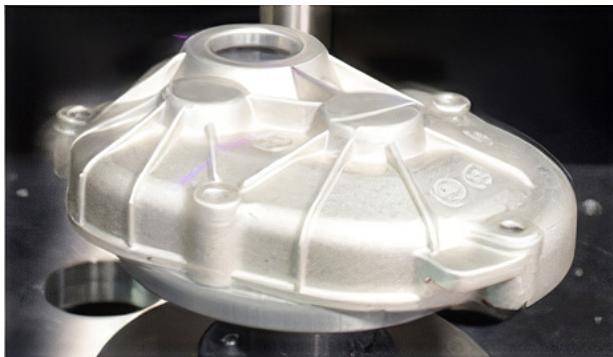


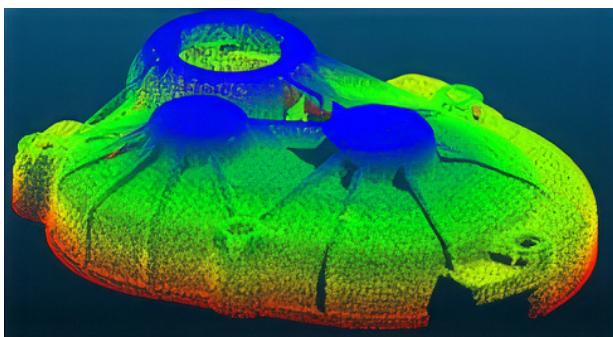
# OPTOCLOUD S

## APPLICATION NOTE

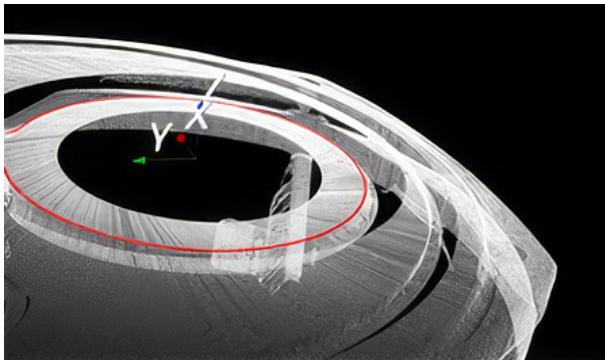
### ACQUISITION



### 3D RECONSTRUCTION



### MEASUREMENT



### APPLICATIONS

- ▶ Motor covers, housings and enclosures
- ▶ Flanges, brackets, adapters and plates
- ▶ Fixing systems, junction boxes and hinges
- ▶ Pumps, valves, pipes, fittings, manifolds and compressor parts
- ▶ Transmission and gearbox parts
- ▶ Blades, joints and turbine components
- ▶ Robotic components
- ▶ LED/lighting parts
- ▶ Aluminum, Ductile or Cast Iron, Steel, Bronze, Brass, Zamak, Zinc, Lead, Magnesium and more

The Optocloud 3D technology validates the geometrical characteristics of your die-cast parts, directly in the production line.

#### ▶ BOOST TROUGHPUT

Increase the inspection rate up to the 100% of the batch, qualifying the parts in less than thirty seconds.

#### ▶ STREAMLINE PROCESS

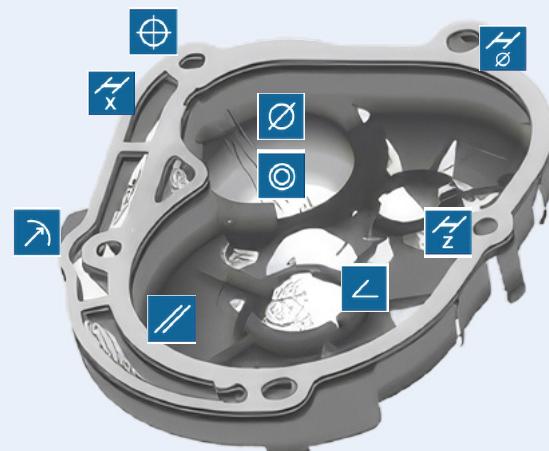
Cut the workload on slower gauges by using one system that performs dozens of measurements simultaneously.

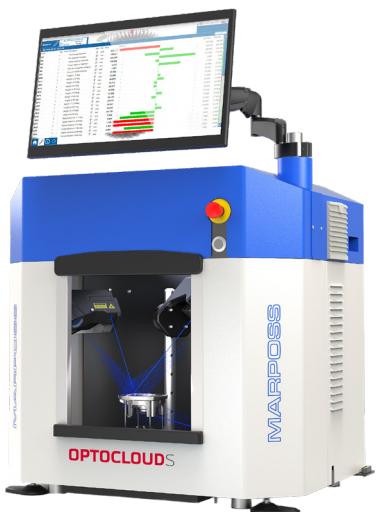
#### ▶ ENHANCE CONTROLS

Check multiple part variants, with intricate geometries and made by different alloys, using a measuring bench optimized for your parts.

#### ▶ REDUCE WASTE

Reduce the risk of material returns and reworking costs for undetected scraps, evolving the sample check into a more efficient process control.



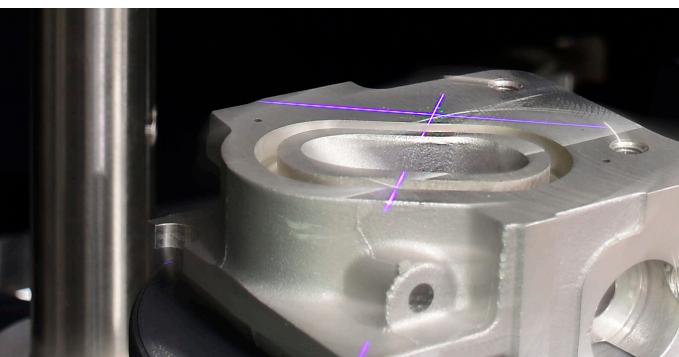
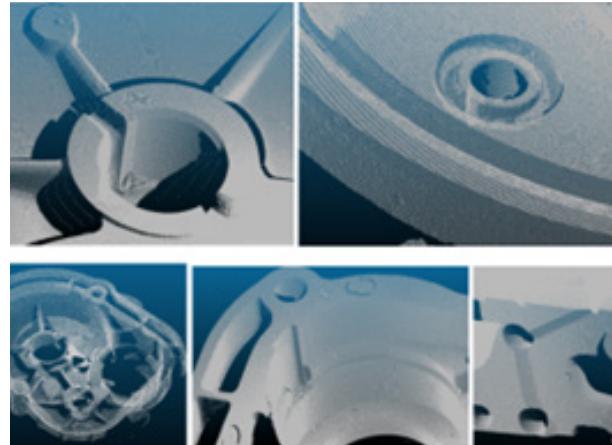


## FEATURES

- ▶ **SPEED:** superior cycle speed, fast retooling times and ease-of-use without waiting times
- ▶ **PRECISION:** fine 3D measurements of multiple characteristics on different surfaces, high repeatability and independence from operator skills
- ▶ **ADAPTABILITY:** validation of multiple part types, part families with similar shapes and various alloys
- ▶ **AUTOMATIZATION:** industrial robustness, manual or automatic part loading, 3D data reporting & storage, MES connectivity

## MEASURING LIST

<b>Diameters, Concentricity, Cylindricity</b>	Outer and inner diameters of fixing holes, fluid channels, seats, legs
<b>Heights, Lengths, Distances</b>	Surfaces height, planes, cavities, length of keys, fluid channels, distances between holes
<b>Flatness, Parallelism, Perpendicularity</b>	Surfaces flatness, Parallelism between planes, Perpendicularity of surfaces
<b>Angles, True position</b>	Angles of notches, True position of holes or slotstones



[discover more](#)



## APPLICATION EXAMPLE

<b>Part Type</b>	Die-cast bracket, Multiple part types, various alloys
<b>Part Dimensions</b>	Ø120 x 55 mm
<b>Measuring specification</b>	28 measurements (12 diameters, 4 center distances, 4 plane distances, 3 concentricity requirements, 2 flatness tolerances, 2 radii, 1 parallelism tolerance)
<b>System specification</b>	Optocloud S with 2 sensors
<b>Cycle time</b>	30 s - single step
<b>System dimensions</b>	All-in-one 86 x 80 x 66 cm