



BOTTLE SCAN CASE STUDY

Test Report: Polyga Compact S1



➤ Polyga is a developer of 3D scanners and mesh processing software based in **Vancouver, Canada**

➤ Thousands of **3D scanning software** installations

➤ Core Technology: **Structured light 3D Scanning & 3d Scan Data Processing Software**

➤ Developed **20+** scanner models

➤ Hundreds of scanner deliveries **worldwide** in **engineering** and **research companies**

Products & Technology

All Polyga 3D scanners use structured-light technology for capturing high-resolution digital 3D scans from real world objects. These systems are great for companies, manufacturers, academic institutions, visual effect studios, and research labs that need 3D scan data for visualization and measurement applications including:

- 3D modeling
- Documentation/archiving
- Reverse engineering
- Scientific measurement
- Computer-aided inspection
- Rapid prototyping/3D printing

Scanning Overview

Scanners

Polyga Compact S1

Introduction

The purpose of this sample test was to perform a demonstration to capture the dimensions of rubber gaskets with the use of developer spray

Scan Processing Results

Each model below comprised of between 8 to 12 scans prior to merging

Equipment Used



Scan Results



[Download Samples](#)

Scan Results

Measurement Data

The close-up scan of the bottleneck was taken of the object with the HDI Compact S1 at a stand-off distance of 180 mm. Modelling clay was used to create geometry to align the scans. Using the measurement tool in Flexscan3D, a sphere was created to measure the width of the

| | |
|----------------------------------|-----------|
| Object Scan Diameter Measurement | 28.342 mm |
| Actual Diameter Measurement | 28.350 mm |



Our Team Looks Forward To Speaking With You Soon!

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