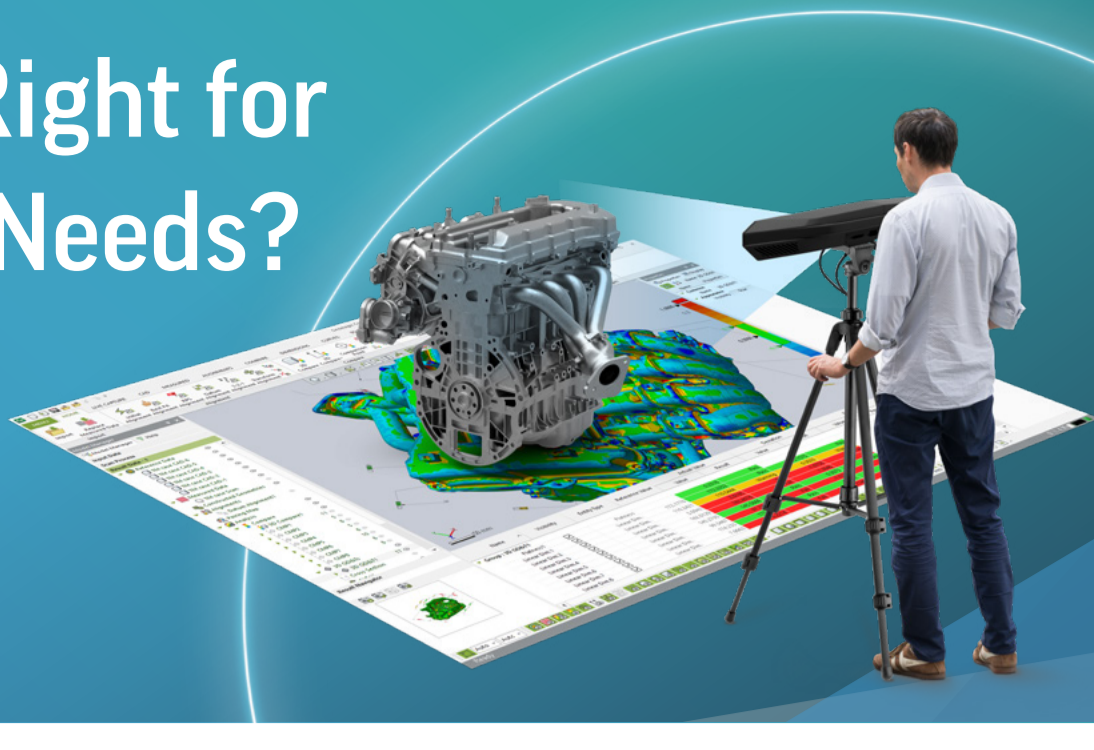


# Is 3D Scanning Right for Your Inspection Needs?

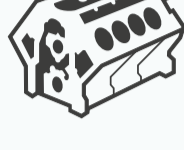


3D scanning is becoming an essential component of many companies' quality control strategies.

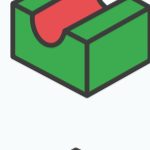
Read on to discover if 3D scanning is right for your inspection needs.

## Signs you really need 3D scanning

If you haven't started leveraging this rapid non-contact measurement technology yet, here are the key warning signs that indicate it's time to dive into the world of scanning.



You need to measure complex parts



You're not sure why some parts fail



You need to measure soft parts



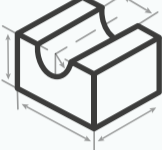
You think you might be scrapping perfectly good parts



Measuring parts takes too much time



You need to measure things in more places



You need to re-measure parts you don't have access to

## Which 3D scanner is right for you?

### LASER TRIANGULATION SCANNERS

Passes a laser line over the surface of a part to calculate the distance from the sensor to the scanned object's surface.

### STRUCTURED LIGHT SCANNERS

Projects a series of linear patterns onto an object and uses sensors to recognize deformations in the patterns to indicate each pixel's distance from the sensor.

### MEDIUM- AND LONG-RANGE SCANNERS

For scanning larger objects such as heavy equipment, aircraft, ships, buildings, or factory floors.

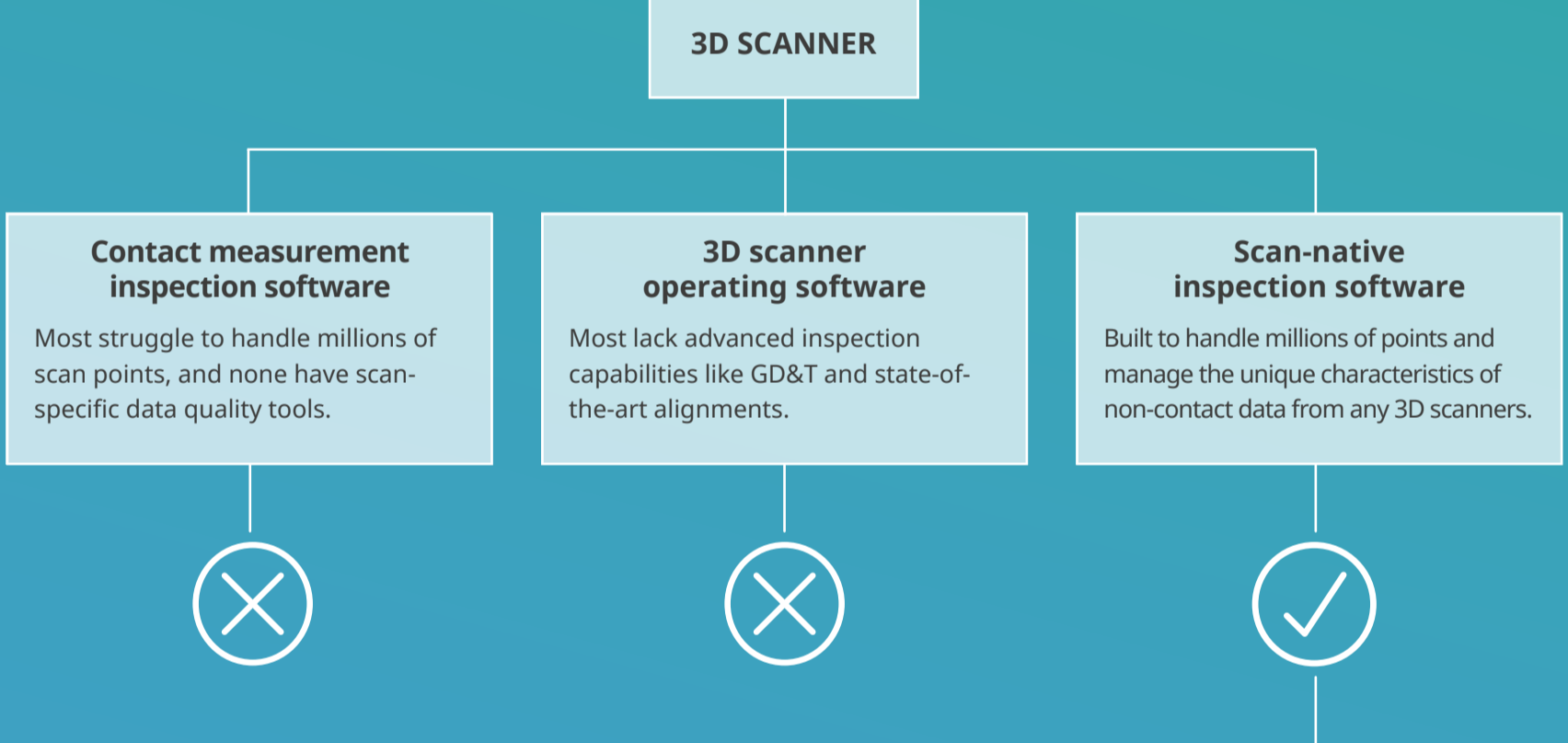


FIND OUT THE PROS AND CONS OF EACH 3D SCANNER TYPE IN 3D SYSTEMS' NEW EBOOK ON INSPECTION

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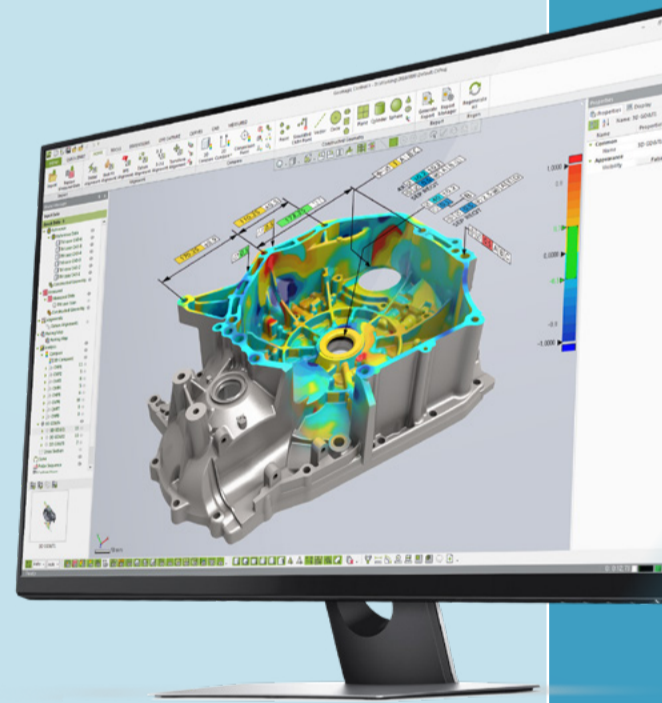
## Scanning is only half of the equation

It takes more than a good 3D scanner to get reliable measurements. You need the right software too. There are three categories of software that are marketed to users of 3D scanners:



## Why you need scan-native inspection software

- 1 Use your 3D scanner to the best of its ability
- 2 Increase measurement precision
- 3 Open and work with large data sets easily
- 4 Display deviation color maps on 3D CAD models
- 5 Use golden parts for comparison and analysis
- 6 Measure features with GD&T
- 7 Create digital archives for future use



## 3D Systems Geomagic

### The world's number one 3D scanning software platform

#### ENSURE QUALITY EVERYWHERE WITH GEOMAGIC CONTROL X

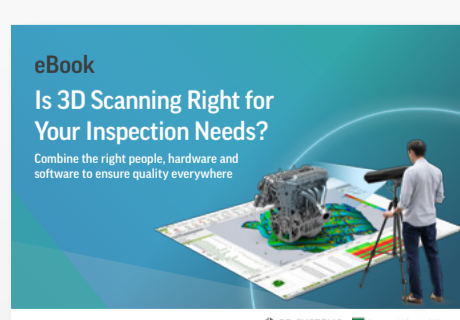
Scan-native inspection software that builds on more than 20 years of innovation in 3D scan data.

Geomagic Control X makes it easy to get the inspection results you need from your 3D scanner, so more people in your organization can:

- ✓ Measure faster
- ✓ Measure more completely
- ✓ Measure more often
- ✓ Measure anywhere



3D SCANNING AND INSPECTING PARTS WITH CONTROL X IS UP TO **7X FASTER** THAN WITH A CMM



## eBook Is 3D Scanning Right for Your Inspection Needs?

An effective approach to 3D scanning requires matching the right people with the right hardware and the right software to best meet your company's measurement needs.

This eBook will help you determine if 3D scanning is right for your inspection needs, and if it is, how best to go about implementing the technology in your business.

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