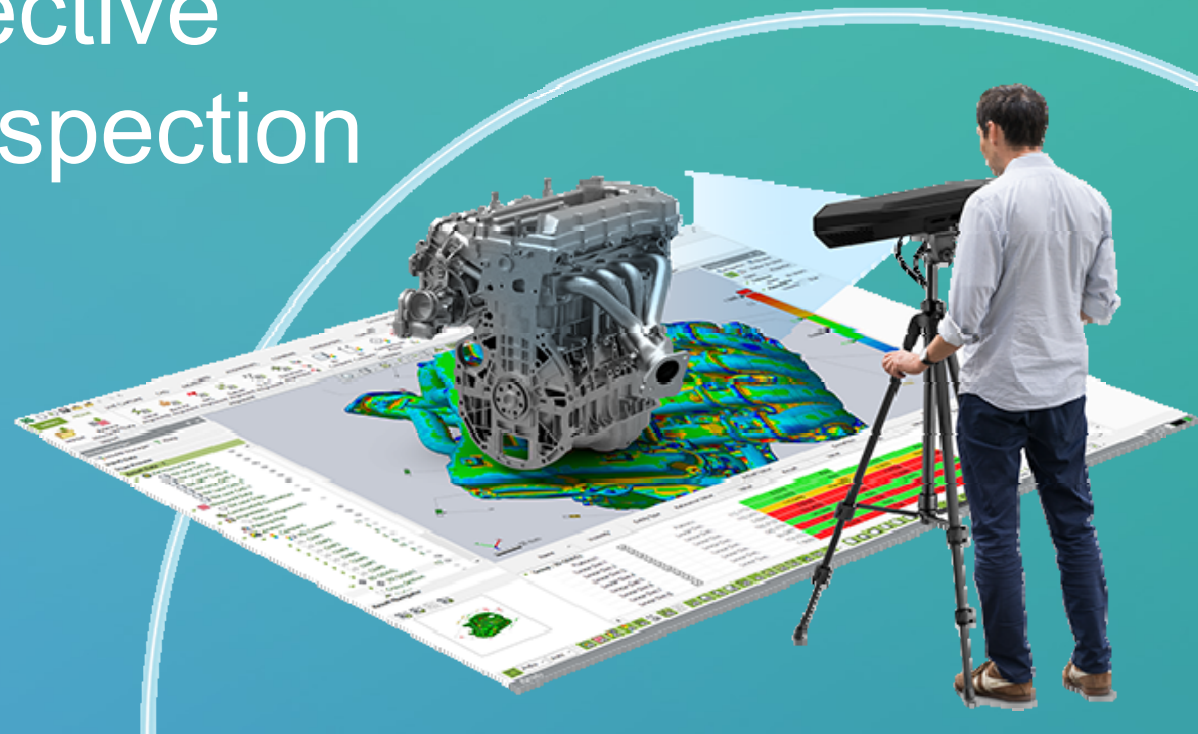


Webinar

The 3 Keys to Effective 3D Scan-based Inspection



About 3D Systems Geomagic

The #1 3D scanning software maker

geomagic®

RAPIDFORM®

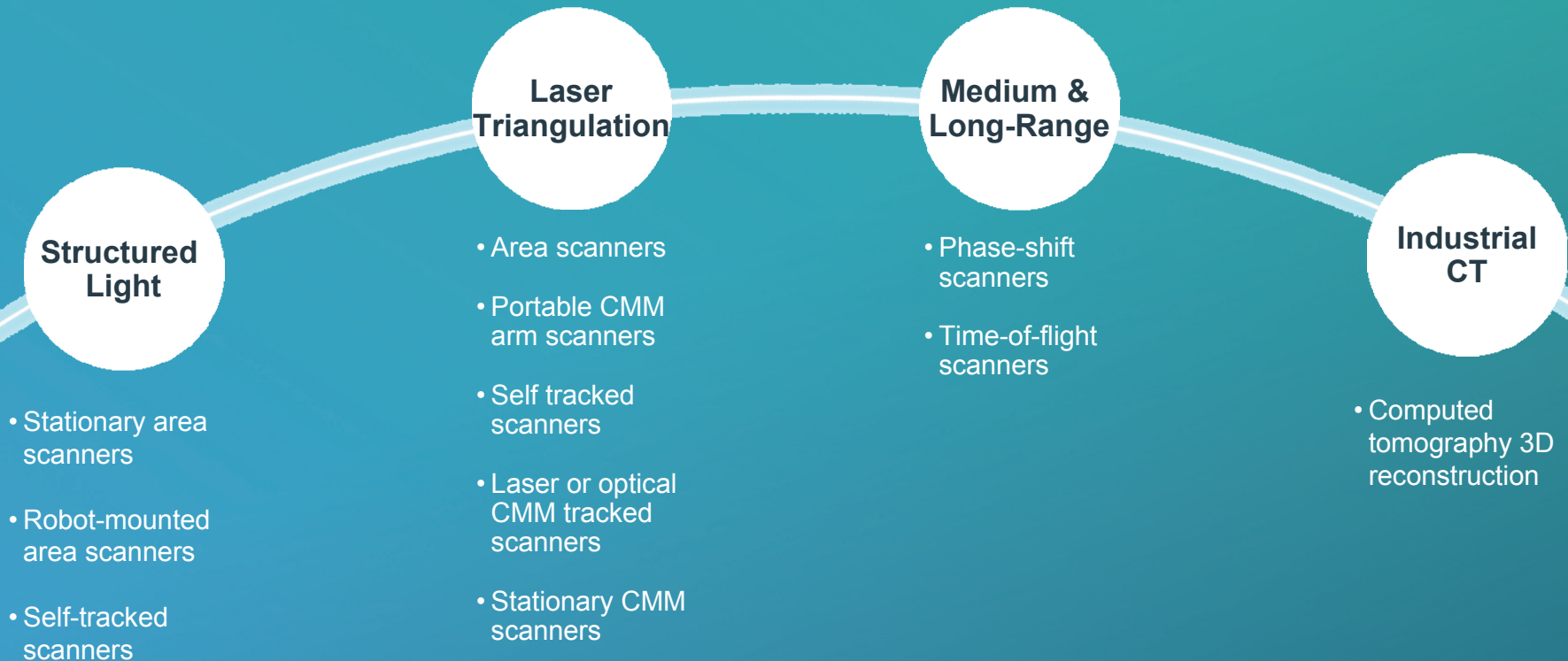



Geomagic



Find the
Right Hardware

Choosing the right 3D scanner can be daunting



When you get it right...
You will transform your business



Structured-light 3D Scanners

	Ideal scan object size			Accuracy	Speed	Portability	Unattended Operation	Low Cost
	Small longest dimension <25 cm/10 in	Medium longest dimension <1 m/3 ft	Large longest dimension >1 m/3 ft					
Stationary area structured light scanners	●●●●●	●●●●	●●	●●●●●	●●	●●●	●●●●	●●
Robot-mounted area structured light scanners	●●	●●●●	●●●●●	●●●●	●●●●●	●	●●●●●	●
Self-tracked structured light scanners	●●	●●●●	●●●●	●●●	●●●●●	●●●●●	●	●●●●

Laser-triangulation 3D Scanners

	Ideal scan object size			Accuracy	Speed	Portability	Unattended Operation	Low Cost
	Small longest dimension <25 cm/10 in	Medium longest dimension <1 m/3 ft	Large longest dimension >1 m/3 ft					
Stationary area laser scanners	●●●●●	●●●●●	●●	●●●●	●●●	●●●	●●●●	●●●●●
Portable CMM arm laser scanners	●●●	●●●●●	●●●●	●●●	●●●●	●●●●	●	●●●●*
Self-tracked laser scanners	●●	●●●●	●●●●	●●●	●●●●●	●●●●●	●	●●●●
Laser or optically tracked CMM laser scanners	●●	●●●●	●●●●●	●●●●	●●●●	●●●●	●	●●
Stationary CMM laser scanners	●●●●●	●●●	●	●●●●●	●●	●	●●●●●	●●●●*

Medium and Long-range 3D Scanners

	Ideal scan object size		Accuracy	Speed	Portability	Unattended Operation	Low Cost
	Very Large longest dimension >1 m/3 ft and <30 m/100 ft	Huge longest dimension >30 m/100 ft					
Phase-shift laser scanners	●●●●●	●●	●●●●**	●●●●	●●●●●	●●	●●●●
Time-of-flight laser scanners	●●	●●●●●	●●●**	●●●	●●●●●	●●	●●●

Industrial CT 3D Scanners

	Ideal scan object size			Accuracy	Speed	Portability	Unattended Operation	Low Cost
	Small longest dimension <25 cm/10 in	Medium longest dimension <1 m/3 ft	Large longest dimension >1 m/3 ft					
Industrial CT Systems	●●●●●	●●●	●	●●●●●	●●	●	●●●●	●

Get the complimentary eBook

Detailed info to help you find the right 3D scanner



Our People Know





Poll Question:

Do you use 3D scanning today?



Find the
Right Software

Software for 3D Scan-based Inspection

Contact Measurement (Traditional) Inspection Software

Contact inspection software that's been upgraded to handle scan data

Scan-native Inspection Software

Full-featured inspection software built from the ground up to work with 3D scan data

3D Scanner Operating Software

Inspection add-on modules offered with 3D scanner operating software

Contact measurement inspection software

Pros

- 1.You probably already have it
- 2.Familiar interface and report format
- 3.No need to learn a new software

Cons

- 1.Not 3D scan-native
- 2.Unable to handle medium or large-sized 3D scan files
- 3.Poor scan data optimization & cleanup capabilities
- 4.Limited scan-specific functionality

3D scanner operating software

Pros

1. Cheap or sometimes free with scanner purchase
2. Tightly integrated with each 3D scanner
3. One source of tech support for both scanner and software

Cons

1. Limited inspection functionality
2. Often unable to handle medium or large-sized 3D scan files
3. Limits your freedom to add different 3D scanners in the future

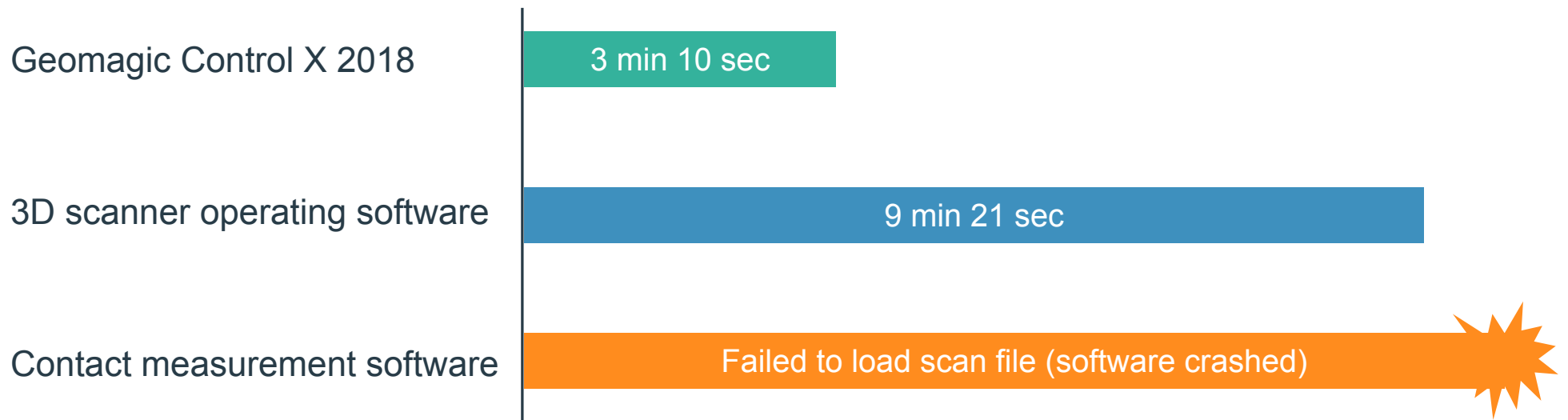
Scan-native inspection software

Pros

1. Get the most functionality out of 3D scanning
2. Ensures measurement precision & repeatability
3. Handle large scan data sets
4. Flexibility to work with data from all 3D scanners (futureproof)
5. Backward compatible with contact measurement systems

Time Study:

Inspecting a Typical 3D Scanned Part



Scan-native inspection software (continued)

Pros

1. Get the most functionality out of 3D scanning
2. Ensures measurement precision & repeatability
3. Handle large scan data sets
4. Flexibility to work with data from all 3D scanners (futureproof)
5. Backward compatible with contact measurement systems

Cons

1. Higher upfront investment
2. Requires learning a new software



Find the
Right People

Who should use 3D scanning in your organization?

You are probably one of the right people

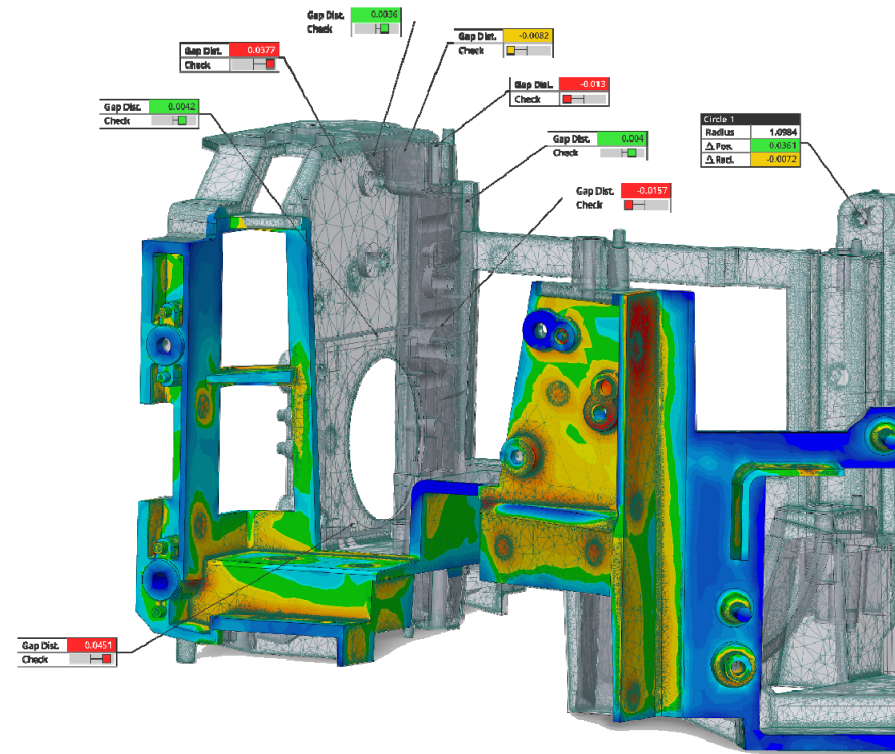
Think about who else can benefit from 3D scanning

- R&D
- Design
- Engineering
- Manufacturing
- Supply chain

Cx Geomagic® Control X™

Ensure Quality Everywhere

- Get the most out of your 3D scanner
- Measure more parts, more often, in more places
- Measure more reliably across people, teams, and locations
- Empower more people to improve quality at every step



Cx Geomagic® Control X™

Ensure Quality Everywhere



EASY TO LEARN

- For experts and non-experts alike



QUICK TO USE

- Flexible
- Works the way you do
- Fast algorithms



EVERYTHING YOU NEED

- Complete toolset at one price
- Easy automation with clicks, not code



MODERN SOFTWARE

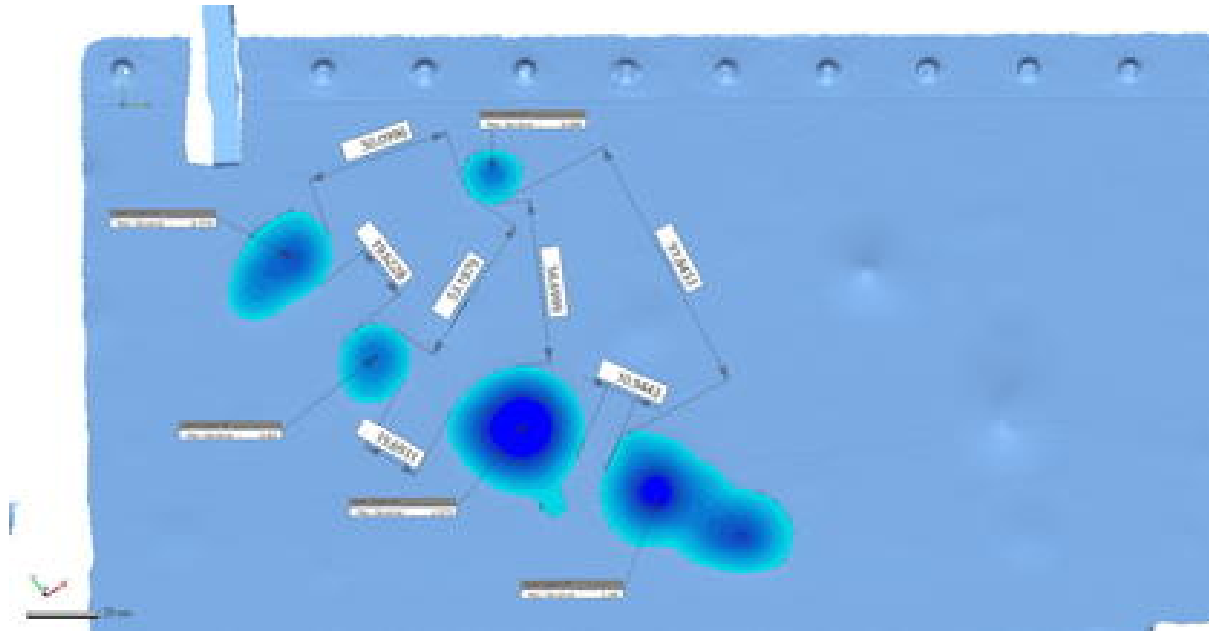
- Born to work with any 3D scanner

easyJet cuts aircraft damage
assessment time by 80%
with Geomagic Control X



Cx Geomagic® Control X™

Ensure Quality Everywhere





Find the
Right Hardware



Find the
Right Software



Find the
Right People



Call Us

NA: +1.800.691.1839

EMEA: +49.6151.357.0

China: +86.400.890.7899

ANZ: +61.450.593.739

Japan: +81.3.5798.2510

India: +91.98404.78347

SEA: +60.12.398.8473

Korea: +82.2.6262.9900



Get a Demo

See Geomagic Control X for yourself

Go to
3dsystems.com/software



Poll Question:

**Would you like a personalized
demonstration of Geomagic Control X?**



Call Us

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