PolyScan XL

POLYRIX

Automated
Metrology
Made Simple

POLYRIX provides innovative measurement solutions to industrial manufacturing organizations, allowing them to automate their inspection process in a simple, efficient, and safe way.

POLYRIX

GO SURROUND!

PolyScan™ Surround 3D Scanners are motionless, multi-sensor 3D measurement systems. This breakthrough technology provides full part coverage and has numerous advantages:

- Fast
- Simple
- Safe

AUTOMATED 3D METROLOGY MADE SIMPLE

- No trajectory programming and risk of collision
- No robot safety requirements
- No complex scan registration using targets or software

LIVEINSPECTION™

Deviation colormaps are projected directly onto the part using a surround array of high-definition projectors. With this technology, the users can change colormaps in real time and get dynamic intuitive fingertip feedback!

FASTEST ROI

- Capture millions of points 3-4 times faster that handheld or robot scanners
- Data capture without human intervention
- No complex software programs to create & maintain
- Minimal fixturing
- No intervention on the part before and after scan (e.g. targets application & removal)
- Low maintenance cost: What doesn't move doesn't break

POLYSCAN™ APPLICATIONS

Dimensional Inspection

GO / NO GO In-process quality control

Inspection of part/die/mold

Repair assistance

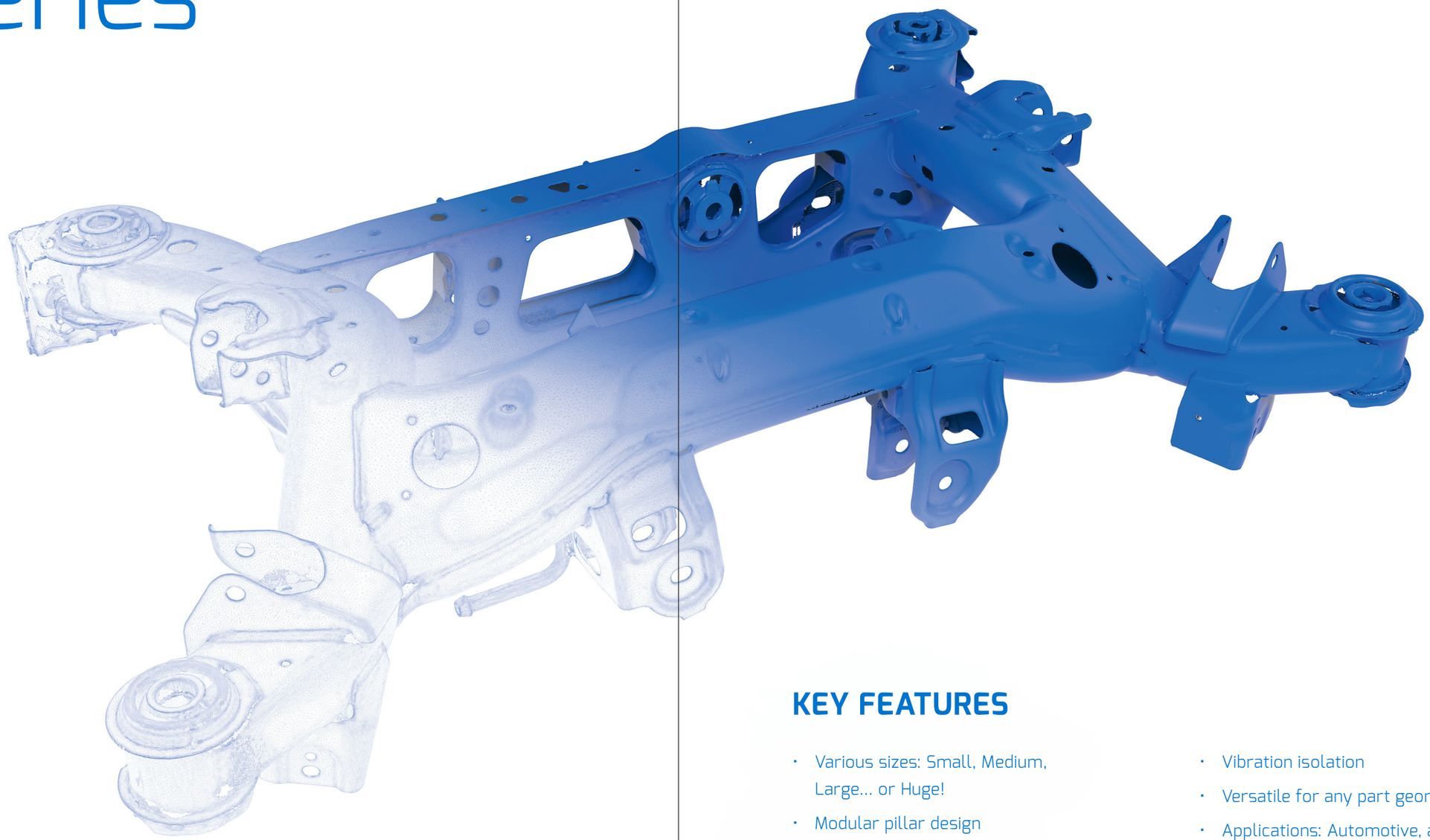
PolyScan
X Series

Surround 3D scanning systems come in a wide range of sizes and configurations to scan everything from a tiny airfoil blade to an entire car!

PolyScan

X Series

Complete coverage in a single shot



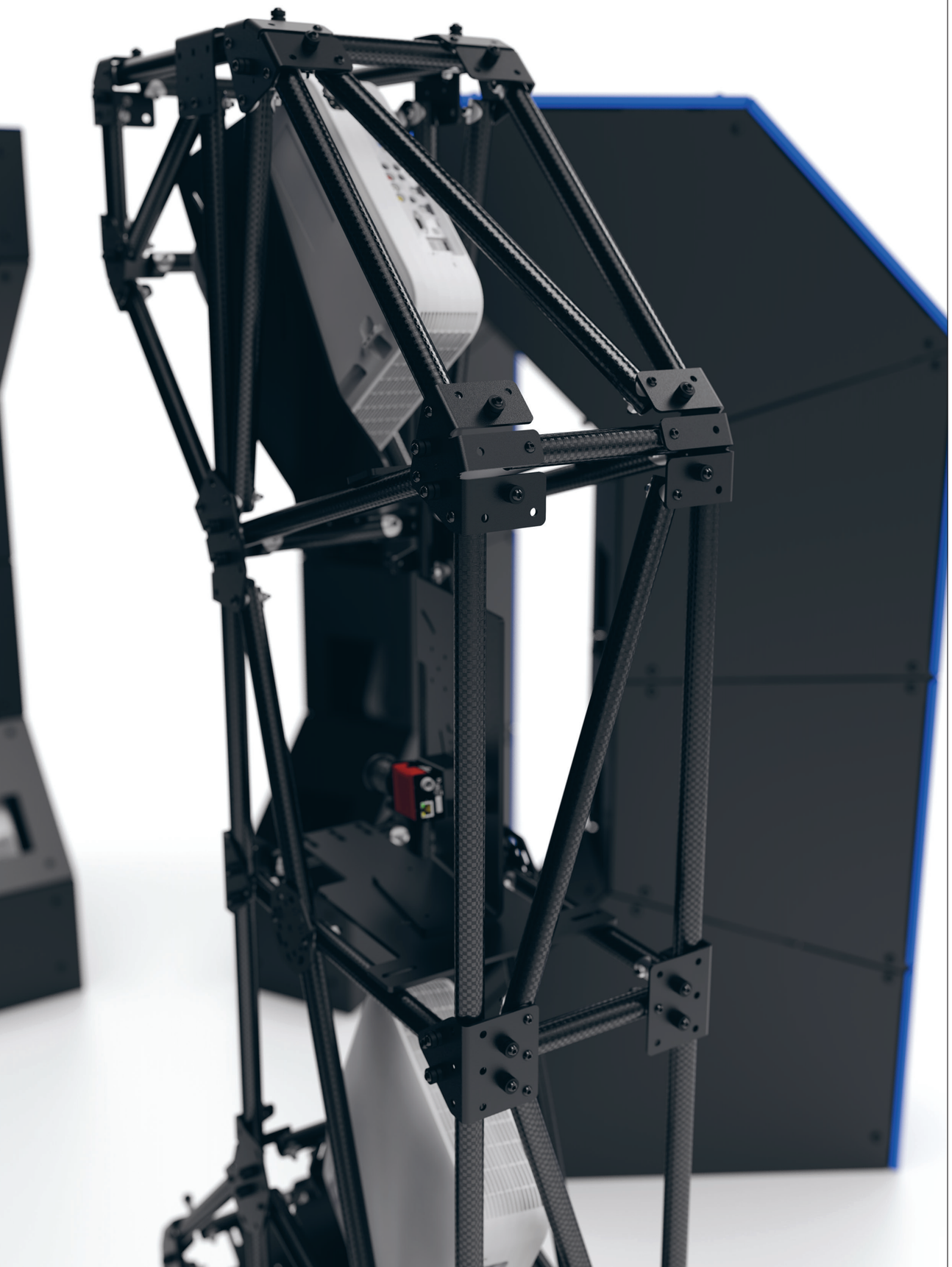
KEY FEATURES

- Various sizes: Small, Medium, Large… or Huge!
- Modular pillar design
- 2+ cameras and 2+ projectors per pillar
- Vibration isolation
- Versatile for any part geometry
- Applications: Automotive, aerospace, medical, defense, industrial, energy…

PolyScan
XS

An instrument of perfection. Laboratory table principle: a structure made of granite for optimal metrology dynamics supported by vibration-damping mounts.

POLYSCAN MODEL	PILLARS	SCAN TIME	Fast Scan	VOLUMETRIC ACCURACY**	PART SIZE
XS	6 small	6-8 minutes	22 seconds	+/- 0.010mm	Up to 0.25m



PolyScan
XM

Full surround scanning power in a medium size package. Coming with optional carbon-fiber structure for optimal thermal stability in various environments.

POLYSCAN MODEL	PILLARS	SCAN TIME	FastScan	VOLUMETRIC ACCURACY**	CalibrationPlus	PART SIZE
XM	6 medium	6-8 minutes	25 seconds	+/- 0.020mm	+/- 0.015mm	Up to 0.75m

PolyScan
XL

The next big thing in metrology. Coming in 6 to 10 pillars configuration. This system will scan everything from automotive body panels to large complex aerospace castings.

POLYSCAN MODEL	PILLARS	SCAN TIME	Fast Scan	VOLUMETRIC ACCURACY**	Calibration Plus	PART SIZE
XL6	6 large	6-8 minutes	25 seconds	+/- 0.040mm	+/- 0.025mm	Up to 1.7m
XL8	8 large	8-12 minutes	27 seconds	+/- 0.055mm	+/- 0.030mm	Up to 2.0m
XL10	10 large	10-15 minutes	29 seconds	+/- 0.060mm	+/- 0.035mm	Up to 2.5m

PolyScan
XH

No measurement task is too huge! Room-sized surround system for large scale metrology applications.

POLYSCAN MODEL	PILLARS	SCAN TIME	Fast Scan	VOLUMETRIC ACCURACY**	Calibration Plus	PART SIZE
XH	16+ huge	16-24 mins	32 seconds	+/- 0.200mm	+/- 0.040mm	Up to 6.5m

Think your measurement process differently

SPEC SHEET

POLYSCAN MODEL	XS	XM	XL6	XL8	XL10	XH
PILLARS	6 (small)	6 (medium)	6 (large)	8 (large)	10 (large)	16+ (huge)
DIMENSIONS* (LxWxH)	1.5m x 1.5m x 1.8m	3m x 3m x 2m	5.5m x 5.5m x 3.5m	6.5m x 6.5m x 3.5m	8.5m x 6.5m x 3.5m	-
SCAN TIME	6-8 minutes	6-8 minutes	6-8 minutes	8-12 minutes	10-15 minutes	16-24+ minutes
SCAN TIME WITH Fast Scan	22 seconds	25 seconds	25 seconds	27 seconds	29 seconds	32 seconds
VOLUMETRIC ACCURACY**	+/- 0.010mm	+/- 0.020mm	+/- 0.040mm	+/- 0.055mm	+/- 0.060mm	+/- 0.200mm
VOLUMETRIC ACCURACY WITH Calibration Plus		+/- 0.015mm	+/- 0.025mm	+/- 0.030mm	+/- 0.035mm	+/- 0.040mm
MAX PART SIZE	0.25m	0.75m	1.7m	2.0m	2.5m	Up to 6.5m
OPERATING TEMPERATURE	5-35°C					
OPERATING HUMIDITY	20-80% (Non-condensing)					

* Approximate dimensions

** Based on VDI/VDE 2634 part 2 third-party evaluation
ISO 17025 accredited laboratory – NIST Traceability