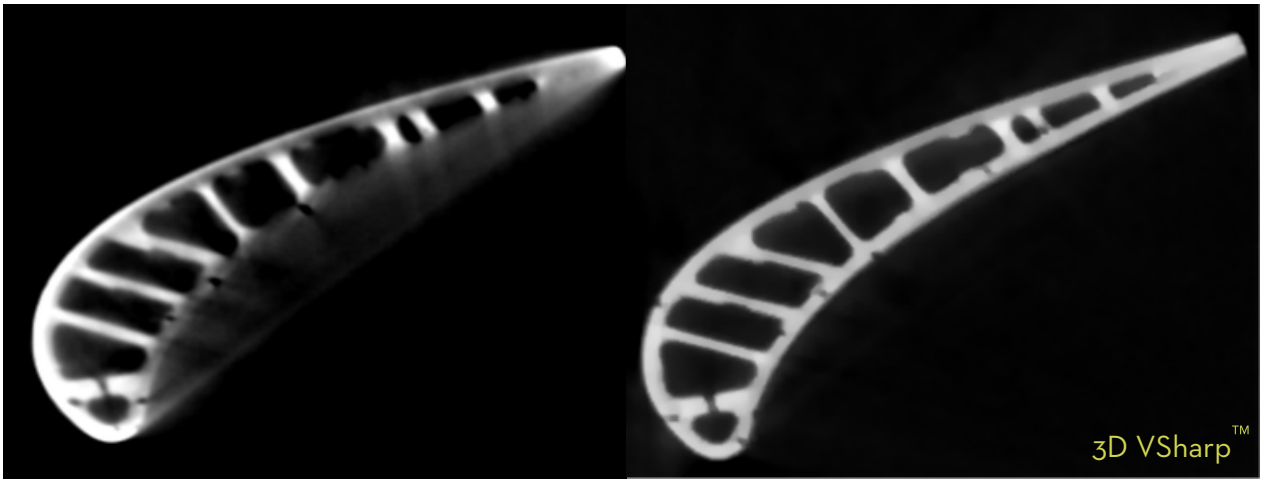
ADVANCED CT RECONSTRUCTION SOFTWARE

Included with every Varex industrial detector

Optimize imaging through cleaner, more consistent volumetric data reconstruction. Whether developing a new CT solution or enhancing an existing offering, nexus R3CON™ (formerly CST) helps OEMs solve real end-user inspection problems with advanced reconstruction and artifact correction, while helping them launch faster through seamless integration to the Varex Imaging-Chain, backed by Varex experts.



Before **After**

Address OEM challenges

Develop New Solutions Faster

Develop with an OEM-ready reconstruction & correction toolkit. Reduce the need to build every capability in house.

Lower Integration Risk

Work with proven modular software, and configure workflows. Trust documented APIs, and OEM-focused engineering support.

Address End User challenges

Imaging Artifacts

Inspect low density areas in mixed metal parts. Reliably identify smaller defects in high density objects.

Workflow: Decision speed and automation

Present users with voxels they can take action on. Feed algorithms with consistent, high-quality volume data.

Accelerating new CT development, enhancing existing offerings, and lowering integration risk.
Ready to accelerate your CT roadmap? www.vareximaging.com

ADVANCED CT RECONSTRUCTION SOFTWARE

Statistical Reconstruction (SR)
Iterative, model-based reconstruction.
Recovers detail from noisy or sparse data.
Designed to be stable at low photon counts.
Multi-GPU accelerated.

Photon-Counting (PCD) Ecosystem
In-house PCD tools directly in nexus R3CON™.
Reconstruction, correction, detector behavior, and spectral data working together.

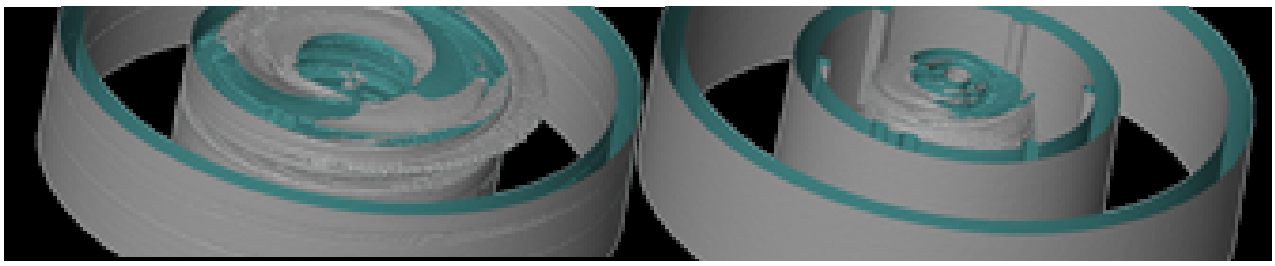
3D VSharp™ Scatter Correction (3DVS)
Proprietary volumetric scatter correction is designed to reduce scatter-induced artifacts for cleaner, more consistent volumetric data in challenging inspections.

OEM-Ready Integration
All processing steps in modules, workflow fully configurable, and documented APIs for flexible deployment into existing systems.

Metal Artifact Reduction (MAR)
Advanced multi-pass MAR minimizes streaking, blooming, and distortion from metal inserts in mixed material assemblies — recovering detail near metal.

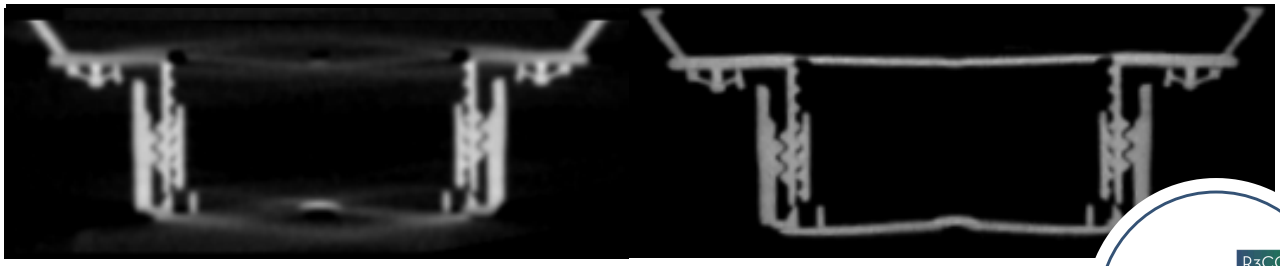
Varex Imaging-Chain Expertise
Expert support from personnel experienced in X-ray sources, detectors, reconstruction software, correction algorithms, and systems.

Recover Surfaces with Metal Artifact Reduction



MAR OFF **MAR ON**

Reconstruct with large cone angles



FDK - Bottle cap at large cone angle **SR - same data**

www.vareximaging.com

Included with every Varex industrial detector

R3CON nexus® included