Dynamic
REALITY CAPTURE

CASE STUDY

Reality Capture · Industrial 3D Laser Scanning

Production-Line As-Builts in 4 Days

Chemical / cleaning-products plant · Houston, TX — terrestrial laser scanning for a production-line rehabilitation and relocation.

37,674	4	~450	RTC360+FARO	Point cloud
sq ft captured	days on site	scan setups	terrestrial	+ 3D BIM

THE CHALLENGE

A Houston cleaning-products manufacturer needed to rehabilitate and relocate a production line — but had no reliable as-built documentation of the existing production area or electrical substation. In a live, congested plant, manual measurement would have taken weeks and still risked missed conflicts and compounding errors.

THE APPROACH

DynamicJT deployed terrestrial scanners — a Leica RTC360 paired with FARO Focus units — chosen for the millimeter-level precision the client required. Over 4 days on site, the crew captured the production area and substation in ~450 scans (≈9,400 sq ft/day), registered into a single QA-controlled dataset with minimal disruption to operations.

THE DELIVERABLES

A survey-grade, fully registered point cloud of the production area and electrical substation — plus a 3D BIM model built from it: a dimensionally accurate digital base of existing conditions.

THE OUTCOME

The client gained two things they didn't have before: accurate as-built plans, and a 3D base to validate the new rehabilitation and line relocation — testing equipment placement, clearances and routing against reality **before** committing budget. Design-ready conditions in days, instead of weeks of manual measurement and guesswork.

> ***"From point cloud to decisions — a digital base accurate enough to design from."***

Planning a brownfield project or equipment relocation?

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