3D SCANNING EQUIPMENT & CAPABILITIES

HandySCAN MAX|Elite large-volume 3D scanner

The Creaform HandySCAN MAX|Elite is a metrology-grade handheld scanner built for large parts. With 38 blue laser lines, an extendable measuring volume, and a working distance out to 2.5 m, it captures accurate 3D data on components up to 15 m — in the field, in harsh environments, with no surface preparation.



HandySCAN MAX|Elite

Blue Laser · 38 Laser Lines · Parts up to 15 m · ISO 17025 Traceable

AVAILABLE NOW FROM D2 RENTALS — FUNCTION-CHECKED, COMPLETE, FIELD-READY.

Built for big parts. Metrology-grade. No set-up.

Scanner Capabilities

Blue Laser · 38 Lines · Large-Volume

- 38 blue laser lines — a large scanning area for capturing big parts and assemblies quickly, with fine detail where needed.
- Large part capability — metrology-grade results on components up to 15 m (50 ft).
- FLEX Volume — adjustable working distance from 0.3 m to 2.5 m: scan small areas up close, or large parts at speed from a distance.
- Point accuracy up to 0.075 mm — traceable large-volume accuracy, optimised for big-part measurement rather than small-part probing.
- Depth of field up to 2.2 m — reach into and across large structures without repositioning.
- Real-Time Calibration — calibration integrated seamlessly into the scanning workflow, no separate calibration step.
- Smart Surface Algorithm — masters shiny, oily, and reflective finishes with no surface treatment or part preparation.
- Dynamic referencing — both scanner and part can move freely during scanning; engineered for harsh, unstable environments.
- ISO 17025-accredited acceptance testing — traceable to international standards, delivered with documented test results.

Applications

Built for large-part inspection in heavy industry

- Aerospace — large structures, fuselage sections, tooling, and assemblies.
- Energy & power — pressure vessels, turbine components, large castings.
- Transportation — vehicle bodies, rail, and large panel work.
- Mining & heavy industry — large machinery, wear components, and structural parts.
- Reverse engineering of large parts — capture big components as accurate CAD reference models.
- Quality control & inspection — verify large as-built parts against CAD across the full volume.
- Non-destructive testing support — capture large-part surface geometry for integrity and condition assessment.
- Field & shop-floor measurement — laboratory-grade data captured on site, in real working conditions.

Technical Specifications

Technology	Blue laser (38 lines)
Volumetric acc.	0.075 mm + 0.010 mm/m
Working distance	0.3–2.5 m (FLEX Volume)
Positioning	Dynamic referencing (TRUaccuracy)
Part size range	Up to 15 m (50 ft)
Acceptance test	VDI/VDE 2634, ISO 17025 accredited
Output formats	.dae .fbx .ma .obj .stl .txt .wrl .x3d .zpr .3mf

Point accuracy	Up to 0.075 mm (0.0030 in)
Measurement rate	Up to 2,250,000 meas./s
Depth of field	Up to 2.2 m
Calibration	Real-Time Calibration (in-workflow)
Weight	1.2 kg (2.7 lb)
Software	VXelements

Hiring this scanner is more cost-effective than an outright purchase — and lets you access large-volume metrology-grade 3D scanning only when your project needs it.

WHAT DO I NEED TO BOOK A RENTAL?

Provide us with some key documents — then enjoy your hire.

01 Insurance

Insure your rental under a Hired-in (non-owned) equipment cover policy — to the full cost value of the equipment and for the duration of your hire period.

02 Proof of ID

Submit a copy of your passport or driving licence, plus a utility, bank, or council tax statement that matches your name and delivery address.

03 Contact for Quote

No pricing is shown for this equipment. Contact D2 Rentals for availability and a bespoke quote based on your project and hire duration.

READY WHEN YOU ARE

Available now from D2 Rentals — function-checked, complete, and field-ready.

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