

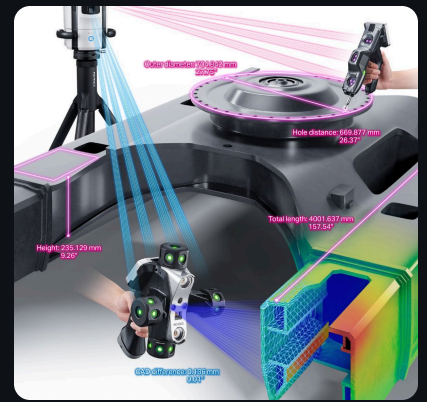
NEW AT SPARK · RICHMOND, BC

We now measure in 3D. Anything, anywhere.

Spark has added a **KEYENCE WM-6000 Wide Area CMM**: a portable, handheld coordinate measuring machine with a touch probe for exact dimensions and a laser scanner for whole-part 3D capture. Inspection reports, CAD comparison and reverse engineering are now part of every job we quote.

■ **SPARK LASER** · custom automation

■ **SPARK FABRICATION** · CNC, fabrication, foam



Up to 25 m

measuring range from one camera position: 25 × 11 × 12.5 m

±28 µm + 5 µm/m

contact-probe accuracy, ±(28 + 5L/1000) µm, ISO 10360-2

2.4 M pts/s

laser scanning, 0.025 mm repeatability, 30 line lasers

2 min

set-up on a tripod, 0–40 °C, no measuring room needed

WHAT WE CAN DO FOR YOU

Inspection reports

Measured values against your tolerances, OK/NG per feature, PDF or Excel, with a photo of each probed point.

CAD comparison

Scan the part and overlay your 3D model: a colour map shows where it is high or low, and the machining allowance on castings and weldments.

Machine installation and alignment

Live XYZ coordinates while equipment is set, levelled and squared, then an as-built record for your files.

First-article and repeat checks

A guided routine saved once; every following part is measured the same way, with trend graphs and Cpk on request.

Reverse engineering

No drawing? We scan the part and deliver STEP, IGES, DXF, STL or point-cloud files to machine, redesign or archive it.

On-site measurement

Frames, tanks, piping and assemblies measured at your plant by one operator. Nothing to ship, no controlled room.



Contact probe

Wireless, with a touch screen. Distances, diameters, hole positions, flatness, squareness and other GD&T, judged against tolerance.



Laser-scanning probe

Sweep it over the part for a full mesh. Violet laser scans glossy, plated and mirror surfaces. Cross-sections without cutting.

HOW A JOB RUNS

1

Send the part or CAD

Drop it at the shop, or book a visit for anything too big to move.

2

Probe and scan

Exact dimensions on critical features; a full scan where you want a map.

3

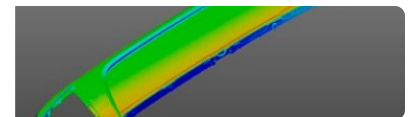
Judge to tolerance

Design values from your CAD; each feature marked OK or out.

4

Report and files

PDF or Excel report plus STEP, IGES, DXF, STL or point cloud.



Scan vs CAD colour map. Red is high, blue is low, scale set to your tolerance. Click any spot for its exact deviation.

Spark Laser · custom automation

Machines built to the drawing, proven with data

- Frames and bases checked for flatness, squareness and hole position before assembly
- Rails, stages and fixtures aligned with live coordinates; as-built records with the documentation
- Retrofits: your existing line scanned so the new equipment fits first time

Spark Fabrication · CNC, fab, foam

Every part can leave with its inspection report

- Dimensional reports on machined and fabricated parts, with every order on request
- Welded frames and tube-laser structures checked against CAD after welding
- Scanned tools, cases and products become exact foam inserts and fixtures

Spark Laser Inc.

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Spark Fabrication

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Visit the shop

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