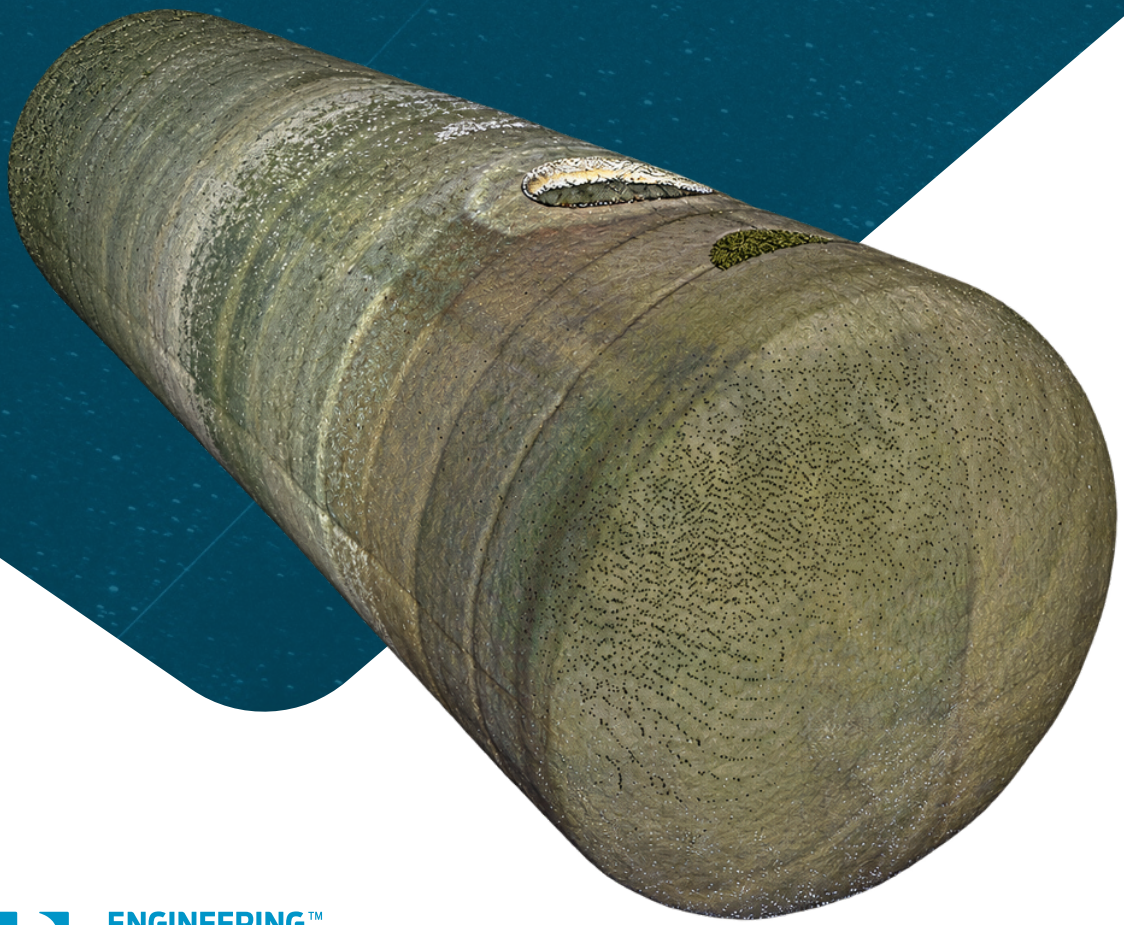
TANK MEASUREMENT SOLUTIONS

Tank Scanning & Strapping Chart Calibration

Accurate 3D Capture.

Practical Level to Volume data.



ENGINEERING™
fuel storage & delivery
system specialists

ENGINEERED_SAFE

consultation_ construction_ compliance_

Measure the tank you actually have

Nominal dimensions and legacy charts do not always reflect the tank in service.

Relining, repairs, slope, settlement and deformation can change usable capacity and reference heights.

TRL captures the as-found internal geometry, builds a 3D volume model and converts it into a practical strapping chart for operations, gauging and asset records.



LEICA BLK360

Compact scanner. Mobile workflow.

Easy to carry and reposition between scan locations, with a simple standalone field setup.

0.75 kg	Scanner body / 0.85 kg with battery
155 x 80 mm	Height x diameter
One button	Standalone battery-powered capture
Wifi & USB-C	Flexible transfer with onboard storage

From field capture to calibrated data

01 Capture

Collect overlapping full-dome scans and panoramic imagery.

02 Register

Combine and clean the point cloud to isolate the tank interior.

03 Model

Create a watertight 3D model and align the agreed zero reference.

04 Calculate

Derive level-to-volume data at the required increments and units.

Why Clients Use It

- ✓ Replace nominal assumptions with measured internal geometry
- ✓ Update capacity records after relining, repair or modification
- ✓ Support inventory reconciliation and gauge configuration
- ✓ Retain a reusable digital record for future engineering work

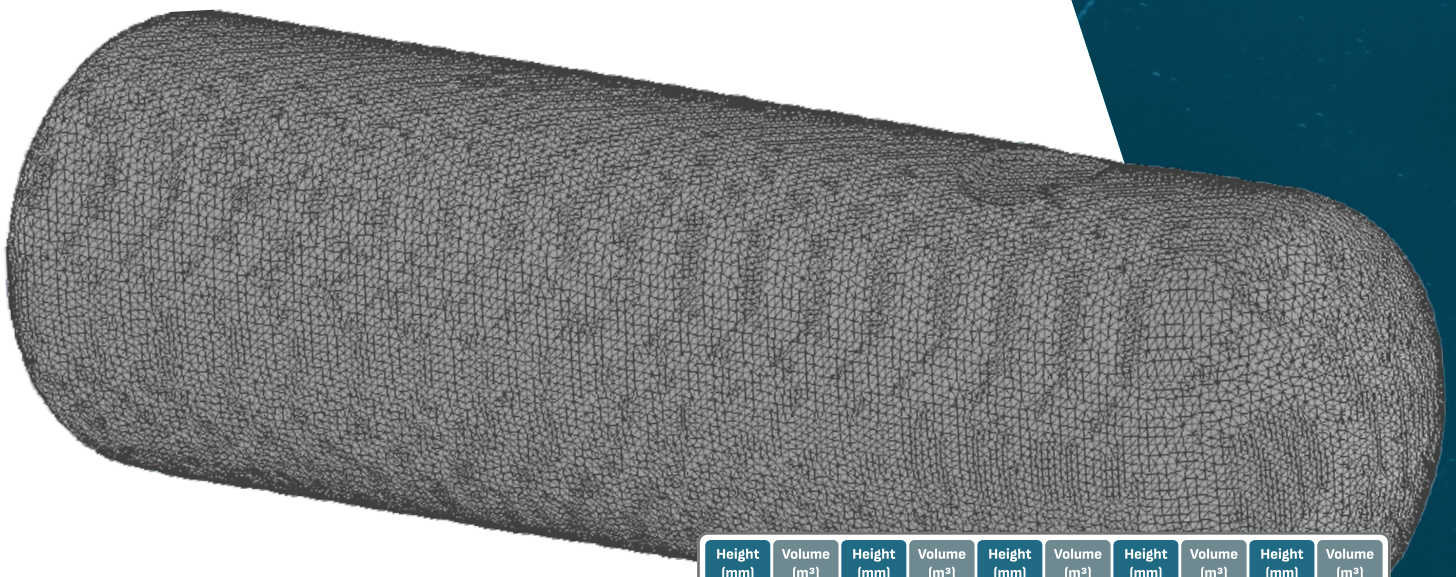
consultation_ construction_ compliance_

ENGINEERED_SAFE

A scan becomes a usable tank record

The deliverable is more than a point cloud.

TRL turns the survey into a clear capacity record with defined reference points, agreed units and a level-to-volume table that can be used by site teams.



What you receive

- ✓ Vessel dimensions, gauge height and total fill capacity
- ✓ Output in the requested depth and volume units
- ✓ Strapping chart at any required depth resolution
- ✓ Bottom, strike, gauge and overflow reference locations where applicable
- ✓ Report of assumptions, calculation basis and key outputs

Height (mm)	Volume (m³)	Height (mm)	Volume (m³)	Height (mm)	Volume (m³)	Height (mm)	Volume (m³)	Height (mm)	Volume (m³)
10	1.194	510	5.576	1010	15.052	1510	25.478	2010	34.835
20	1.296	520	5.741	1020	15.258	1520	25.682	2020	34.995
30	1.399	530	5.908	1030	15.464	1530	25.887	2030	35.154
40	1.506	540	6.077	1040	15.671	1540	26.091	2040	35.311
50	1.617	550	6.246	1050	15.878	1550	26.294	2050	35.467
60	1.732	560	6.418	1060	16.086	1560	26.497	2060	35.622
70	1.849	570	6.590	1070	16.294	1570	26.699	2070	35.774
80	1.969	580	6.763	1080	16.502	1580	26.901	2080	35.925
90	2.091	590	6.938	1090	16.710	1590	27.102	2090	36.074
100	2.215	600	7.113	1100	16.918	1600	27.303	2100	36.220
110	2.341	610	7.289	1110	17.126	1610	27.503	2110	36.365
120	2.467	620	7.467	1120	17.335	1620	27.703	2120	36.508
130	2.595	630	7.646	1130	17.544	1630	27.902	2130	36.650
140	2.727	640	7.826	1140	17.753	1640	28.100	2140	36.791
150	2.860	650	8.008	1150	17.962	1650	28.298	2150	36.930
160	2.996	660	8.190	1160	18.172	1660	28.495	2160	37.067
170	3.135	670	8.373	1170	18.381	1670	28.692	2170	37.201
180	0.021	680	8.557	1180	18.591	1680	28.888	2180	37.334
190	0.047	690	8.742	1190	18.800	1690	29.083	2190	37.463
200	0.078	700	8.928	1200	19.010	1700	29.277	2200	37.590
210	0.115	710	9.115	1210	19.220	1710	29.470	2210	37.715
220	0.156	720	9.302	1220	19.429	1720	29.663	2220	37.839
230	0.200	730	9.491	1230	19.639	1730	29.855	2230	37.961
240	0.249	740	9.680	1240	19.849	1740	30.047	2240	38.081
250	0.300	750	9.871	1250	20.059	1750	30.237	2250	38.200
260	0.353	760	10.062	1260	20.269	1760	30.427	2260	38.315
270	0.408	770	10.254	1270	20.479	1770	30.616	2270	38.428
280	0.469	780	10.447	1280	20.689	1780	30.804	2280	38.538
290	0.539	790	10.640	1290	20.899	1790	30.991	2290	38.644
300	0.618	800	10.834	1300	21.109	1800	31.177	2300	38.746
310	0.704	810	11.029	1310	21.319	1810	31.362	2310	38.847
320	0.796	820	11.224	1320	21.529	1820	31.546	2320	38.949
330	0.892	830	11.421	1330	21.738	1830	31.730	2330	39.050
340	0.991	840	11.618	1340	21.948	1840	31.912	2340	39.150
350	1.092	850	11.816	1350	22.158	1850	32.094	2350	39.246
360	3.275	860	12.014	1360	22.367	1860	32.274	2360	39.337
370	3.417	870	12.213	1370	22.577	1870	32.454	2370	39.423
380	3.561	880	12.413	1380	22.786	1880	32.632	2380	39.501
390	3.706	890	12.613	1390	22.995	1890	32.809	2390	39.571
400	3.852	900	12.813	1400	23.203	1900	32.984	2400	39.630

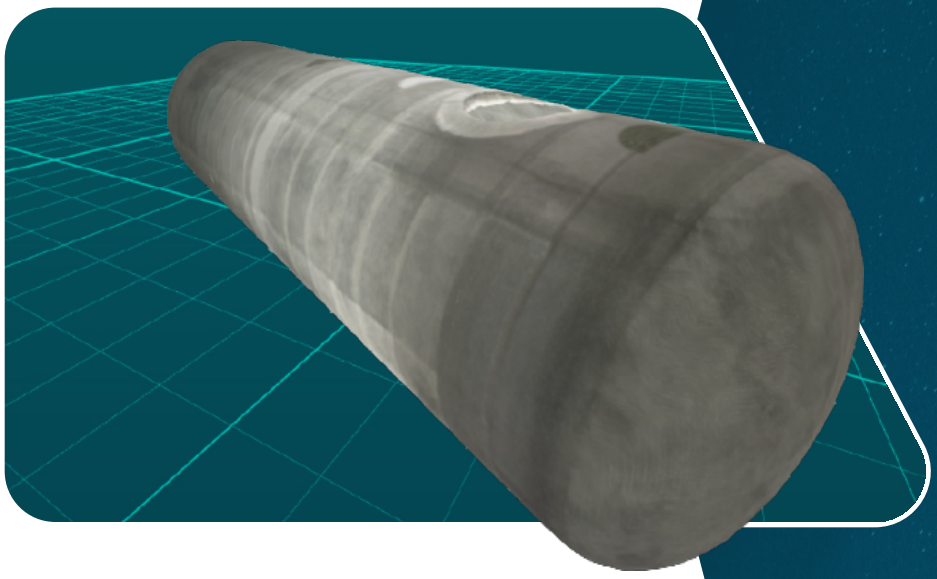
Any resolution. Any agreed unit.

Simply specify the depth resolution you need [1], and the units your operation uses [2]

[1] e.g. 10 mm or 100 mm
[2] Litres or gallons / millimetres or inches

Better capacity data. Better fuel decisions.

Talk to TRL about scanning an existing tank, validating capacity after works, or replacing an outdated or missing strapping chart.



Typical Applications

- ✓ Recalibration after tank relining, repair or modification
- ✓ Replacement of legacy, incomplete or missing capacity tables
- ✓ As-built records for new or recommissioned tanks
- ✓ Assessment of slope, deformation or non-standard geometry
- ✓ Support for inventory reconciliation and tank gauging setup

Request an obligation-free discussion about your tank and required outputs.

consultation_ construction_ compliance_

Transport & Logistics

Marine & Aviation

Mining & Refinery

Critical Infrastructure

Commercial Facilities

Service Stations

TRL ENGINEERING™
fuel storage & delivery system specialists

1300 850 971
Unit 1, 68-70 Township Drive, Burleigh QLD 4220
info@trlengineering.com.au
www.trlengineering.com.au

ENGINEERED_SAFE