

CTE ADVANCED TECHNOLOGIES

Fabricating

TITANIUM

GR 2 • GR 9 (TI-3AL-2.5V) • GR 5

Titanium, fabricated to your design — coded, purged and X-ray inspected. Hardlines to complete exhausts, F1 quality.



WHAT WE FABRICATE

- ✓ Hydraulic & cooling hardlines
- ✓ Bleed & pressure lines
- ✓ Titanium exhausts
- ✓ Complex-geometry tube
- ✓ Coded TIG assemblies
- ✓ RT-inspected & certified

HOW WE BUILD IT

Manufactured to your design

We build to your drawings and specification, with DFM input at the design stage — from prototype to series production.

Motorsport timelines & quality

Delivered to the schedules and tolerances demanded at the pinnacle of motorsport: Right First Time, On-Time.

APQP & PPAP production control

Governed by APQP planning and PPAP approval — control plans, inspection and full material traceability (MTR).

Titanium is unforgiving. The welding is everything.

Titanium’s strength-to-weight and corrosion immunity are won or lost in the fabrication. CTE manufactures hardlines to your design — welded by coded hands under controlled purge, X-ray-inspected, built to motorsport timelines and quality, under APQP & PPAP control.

SECTORS WE NOW SERVE

01 Motorsport & niche automotive

Hydraulic, bleed and coolant lines in Ti. CTE: coded, purge-controlled TIG, 100% RT to EN ISO 17636.

02 Defence & naval

Lightweight and precision structures, complex-geometry assemblies. CTE: welded and inspected to prime and MIL requirements.

03 Medical & scientific

Biocompatible, corrosion-immune fluid and instrument systems. CTE: contamination-controlled welding with full certification.

04 Chemical & desalination

Grade 2 titanium in heat exchangers and process piping. CTE: welded process tube, pressure- and leak-tested.

05 Hydrogen & clean energy

Lightweight, corrosion-resistant pressure-bearing lines. CTE: leak-tight, inspected titanium to a consequence-critical standard.

BUILT TO YOUR DESIGN, UNDER APQP & PPAP – EVERY PART CARRIES THE EVIDENCE

Coded TIG welding F1 & WRC audited, coded to your specification	Pressure testing Air underwater & decay transducer, up to 7 bar	X-ray/RT & dye-pen Volumetric & surface NDT	CMM & 3D scanning Dimensional validation
CNC bend & hydroform Complex, repeatable geometry	Integrated machining Finished assemblies, not just parts	APQP/PPAP Control plans & MTR traceability	ISO 9001 & King’s Award International Trade 2026

Hardlines worth the weight saving

Titanium only pays back when the fabrication protects its properties. Bring CTE in early for advice on grade, bend geometry, purge strategy and inspection plan.

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Talk to our commercial team →

MATERIAL READOUT – TITANIUM			
GRADES Gr 2 (R50400) · Gr 9 · Gr 5	WELDING Coded welders · purge-controlled TIG	INSPECTION 100% X-ray / RT capable	STANDARDS ASTM B338 · EN ISO 17636