



APEX

Advanced industrial component optimisation

CAPABILITY STATEMENT

 One-stop surface solutions company



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About us

ONE-STOP SURFACE SOLUTIONS COMPANY

APEX ETG leads in industrial surface engineering solutions, delivering superior durability, efficiency, and performance across industries with demanding operational needs, from defence to oil and gas to mining. Our innovative solutions – spanning laser cladding, integrated systems, and advanced materials – reduce downtime, extend equipment life, and set new standards for industrial resilience and performance.

Founded in Western Australia, APEX Engineering Technology Group (ETG) emerged from a commitment to rethink how industries confront their toughest challenges. By focusing on industrial surface engineering solutions, APEX ETG has become a leader in high-durability surfaces that extend the lifespan and reliability of essential components. Driven by a passion for modern, precise and sustainable engineering, APEX ETG is proud to be ISO Certified for Quality, Health and Safety and Environment, demonstrating our commitment to excellence across all operations.

At APEX ETG, we bring together local expertise and cutting-edge technology to meet the unique demands of sectors like mining, defence, and oil & gas.

Our tailored solutions allow clients to overcome specific operational challenges, making sure they not only meet but often exceed their performance goals. Our resilient surfaces withstand the harshest environments, helping industries work with greater efficiency and sustainability.

Beyond our solutions, APEX ETG is focused on forging strong, lasting partnerships with our clients and stakeholders. Through collaboration, transparency, and a shared commitment to excellence, we continue to push the limits of what's possible in industrial technology. Our mission is clear: to deliver high-performance solutions that support a stronger, more sustainable future for Australia and beyond. Together, we're not just solving today's problems – we're shaping the future of industry.

Why choose APEX ETG?

WE ARE COMMITTED TO PROVIDING SUPERIOR INDUSTRIAL SURFACE ENGINEERING SOLUTIONS

Our services are designed for maximum performance, durability, and efficiency. Here's why companies trust us to meet their most demanding challenges:

- Industry-Leading Expertise
- Cutting-Edge Technology
- Customised Solutions
- Comprehensive Support
- Sustainability and Efficiency
- Proven Track Record
- Research and Development Collaboration
- Industry Proven Turn-Key System Delivery



Enhanced equipment longevity



Operational efficiency



Sustainability driven



Innovation and R&D



ISO certified:
9001 - Quality
45001 - Safety
14001 - Environment



Solutions

INNOVATIVE, SUSTAINABLE SOLUTIONS



Wear Resistance

We improve the durability and performance of industrial components with advanced wear-resistant surfaces and treatments. Our engineered

solutions reduce abrasion, erosion, and friction, extending part life and minimising downtime for industries like mining, energy, and heavy machinery.



Corrosion Resistance

We help you protect assets in harsh, chemical, or moisture-prone environments

with tailored corrosion-resistant surface solutions. Our solutions reduce rust and degradation, extend maintenance intervals, and improve long-term reliability.



Dimensional Reclamation

Using precision surface restoration, we return worn or damaged components

to original specifications – often with enhanced performance. This cost-effective process avoids full replacement, maintains critical tolerances, and extends equipment life.



Impact Resistance

For equipment facing heavy loads or shocks, we offer surface treatment solutions

that absorb and disperse impact energy. Our solutions improve toughness and help prevent cracking or failure in demanding, high-impact applications.



Environment
ISO 14001
SAI GLOBAL

Sustainability

We support sustainable operations by extending component life and reducing waste. Our focus on reclamation and repair lowers material use, cuts replacement needs, and helps clients operate more efficiently and responsibly.



Services

ADVANCED SURFACE ENGINEERING SOLUTIONS

Our specialist services are tailored to enhance performance, extend equipment life, and reduce downtime. Combining technical expertise with cutting-edge technology, we supports clients across a wide range of industries. Whether you need to restore critical parts or improve wear resistance, our integrated approach ensures consistent quality and lasting results.



Laser cladding

We use advanced laser cladding to apply wear- and corrosion-resistant surface layers with precision and minimal heat input. This

technique extends component life, enhances performance, and allows us to reclaim high-value parts that would otherwise be scrapped.



Automated Welding

Our automated welding systems deliver consistent, high-quality results for both surface build-up and

structural repairs. By combining automation with welding expertise, we improve efficiency, reduce human error, and ensure repeatable performance.



Laser heat treatment

Our laser heat treatment process precisely hardens targeted surface areas, improving wear and fatigue

resistance without affecting the core material. It's a reliable solution for boosting surface durability in critical, high-load applications.



Metallurgical Laboratory

Our on-site metallurgical lab allows us to thoroughly analyse surface properties, wear patterns, and material

compatibility. This insight ensures our surface solutions are backed by data, quality-assured, and tailored to specific operating environments.



Machining

We offer in-house precision CNC and Manual machining to support our surface treatment solutions, ensuring exact dimensional tolerances

before or after repair. This integrated capability reduces turnaround times and ensures complete control over quality and fit.



Research & Development

We continuously invest in R&D to improve our surface treatment technologies and develop new solutions. From

material testing to process optimisation, our team is committed to innovation that delivers measurable benefits to our clients.

In-house capabilities

SURFACE SOLUTIONS FOR PERFORMANCE AND RELIABILITY

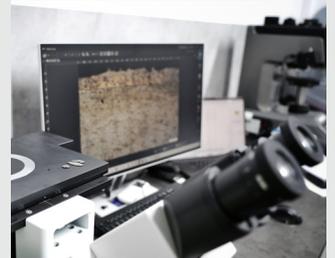
We specialise in delivering tailored industrial solutions that combine cutting-edge technology with a commitment to sustainability. We work closely with our clients to develop solutions that not only meet immediate needs but also contribute to long-term environmental and operational goals.

Laser and welding capabilities



- 4x laser cladding cells
- 1x 10 axis robotic welding cell
- Internal diameter laser cladding
- Large area laser cladding
- Hot wire laser cladding
- High speed laser cladding
- Closed loop laser heat treatment
- Twin wire HyperFill welding
- Twin wire weld hard facing

Laboratory and NDT services



- Metallurgical sample cutting
- Sample mounting, grinding and polishing
- Micro hardness testing
- Macro hardness testing
- G65 wear testing
- 2x metallurgical microscopes
- Analysis software and hardware
- Magnetic particle testing
- Dye penetrant testing
- XRF PMI Scanning

Turnkey systems and automation



- Robotic system design
- 3D modelling and off-line programming
- System design and fabrication
- System build and integration
- In-house pre-acceptance testing
- Application qualification
- Installation and commission
- Application and system support
- Thermal spray, laser and welding systems
- Spare parts and consumables supply

Machining capabilities



- CNC VTL 2.4m swing x 2.4m height
- CNC milling 3m length
- Manual milling and drilling
- CNC horizontal boring
- 4x manual lathes up to 5m
- 3x cylindrical grinders up to 4m
- 2x overhead gantry cranes (10t)
- CMM measurement
- Industrial painting and finishing

Industries

WE PARTNER WITH A DIVERSE RANGE OF INDUSTRIES

We support critical sectors with advanced industrial surface engineering solutions. Our deep industry knowledge, combined with a commitment to innovation and quality, ensures we provide tailored solutions that improve component performance, extend service life, and reduce operational downtime.

APEX
MINING



APEX
OIL & GAS



APEX
PUMPS & VALVES



APEX
DRILLING



APEX
DEFENCE



APEX
CONSTRUCTION



APEX
MANUFACTURING



Applications

INDUSTRY APPLICATIONS FOR DEMANDING ENVIRONMENTS

We deliver advanced surface engineering solutions for high-performance components across demanding industries. Our expertise in laser cladding, heat treatment, and precision machining enhances durability, wear resistance, and service life – where it matters most.



- Fixed Plant Components
- Mobile Equipment Components
- Drilling
- Crushing & Screening
- Hydraulic Cylinders



- Armoured Vehicle Components
- Landing Gear
- Marine Application Components
- Hydraulic Components



- Ball Valves & Seats
- Hydraulic Rods & Cylinders
- Compressor Rods & Pump Shafts
- Downhole Stabilisers



- Excavator Buckets & GETs
- Wear Plates & Liners Replacement Cladding
- Hydraulic Components



- Pump Impellers & Casings
- Valve Seats & Stems
- Shaft Sleeves
- Wear Rings



- Tooling and Dies
- Rollers & Shafts
- Extruders and Molds



- Wear Bands & Stabilisers
- Drill Collars & Heads
- Threaded Connections



Quality
ISO 9001



Occupational
Health and
Safety
ISO 45001



Environment
ISO 14001



What is laser cladding?

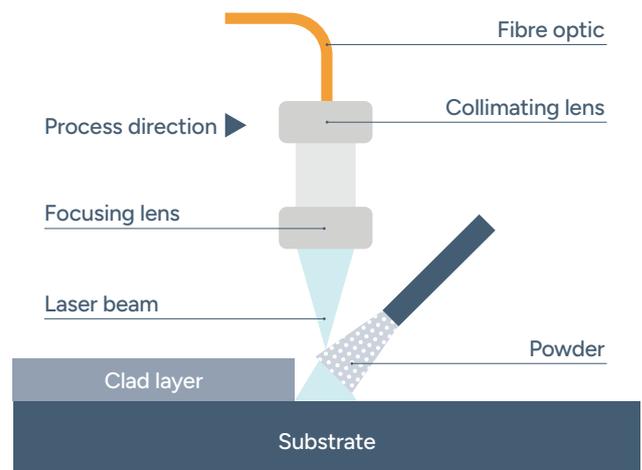
ADVANCED SURFACE TREATMENT PROCESS

Laser cladding is an advanced surface treatment process that enhances or restores the surface of critical industrial components. Using a high-powered laser, we fuse a precisely controlled layer of metal onto a base material, creating a new surface that is highly resistant to wear, corrosion, and impact.

Why Choose Laser Cladding?

Traditional repair methods often compromise the structural integrity of components. Laser cladding offers a smarter, more sustainable alternative. With minimal heat input and distortion, we can accurately build up worn surfaces or protect new components – without affecting the underlying part.

- Low heat input – Less distortion
- High precision – Accurate surface engineering
- Metallurgical bond – Superior durability



Benefits



Extend equipment life – surfaces can perform better than the original OEM parts due to optimisation of the surface material



Enhance performance – tailor the surface for exact operating conditions



Reduce replacement costs – reclaim parts instead of replacing them



Improve sustainability – reduce waste and raw material consumption

Laser cladding
can increase
wear life by



20% – 100%
depending on the application

Our valued customer testimonials



We are all very impressed with your facility, capabilities, strength of knowledge in your products and especially satisfied with the quality of work you deliver. Thanks again to all in the Apex team and look forward to our next project together"

– Asset Manager, Tier 1 Major Mining Company



I just want to convey my appreciation for the good work that APEX has done for us. I have just been informed the components APEX repaired for us have exceeded all expectations. We have just crossed the 3x lifecycle benchmark. We would like to develop more applications with the team at APEX."

– Operations Manager, Oil & Gas Services Company

Our customers



Our partners



Our advanced technology, industry-specific expertise, tailored solutions and reliable outcomes drive exceptional outcomes for our clients.

3,000

components
optimised

\$10M

saved for our clients
by component
reclamation over re-
purchasing

12,000

hours of downtime
saved from our quick
turnaround services

>\$25M

saved in cost of
ownership for our
customers from
extended
component life



Get in touch



 Quality ISO 9001 	 Occupational Health and Safety ISO 45001 	 Environment ISO 14001 
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Partner with Apex ETG to access cutting-edge surface engineering solutions that drive performance, efficiency, and sustainability. Contact us today to learn how we can help optimise your operations and deliver long-term results.

Contact us today for a consultation or to request a quote.

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