

COILTEK

**COILTEK
MANUFACTURING**

ABN: 97 150 548 874



Capability
Statement

INDUSTRIES SERVED

| DEFENCE | MEDICAL | MINING | RAIL | SPACE | MANUFACTURING |



Company Details

Address: 5 Mengel Court, Salisbury South SA, 5106 Australia

Email: trevor.f@coiltek.com.au

Web: www.coiltekelectronics.com.au

ICN Gateway Business ID: 1598633

Employees: 13

ABN: 97 150 548 874

Local Manufacturer: Yes

Foreign Manufacturer: No

Importer: Yes

Exporter: Yes

NT CAL Accredited: No

Works in Remote Locations: No

Australian Indigenous Owned: No

Contacts

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COILTEK MANUFACTURING

For over 20 years, Coiltek have been the specialists in custom wire wound parts, including custom wound transformers, toroids, bonded coils, inductors, transmitters, solenoids, power supply windings, metal detector coil winding and other precision electro-mechanical wire winding solutions.

Summary

Coiltek Manufacturing – Trusted Partner in Advanced Manufacturing

Coiltek Manufacturing has built a strong reputation as a reliable and innovative leader in precision manufacturing. For over two decades, we have partnered with leading organisations across the defence, rail, medical, space, mining, and manufacturing sectors, delivering tailored solution that meet the highest standards of quality, reliability, and performance.

Our expertise spans coil winding, metal detector coils, and customised wire-wound components, alongside electronic assembly, contract manufacturing, cable assemblies, and advanced 3D printing services.

With extensive experience in global export markets and long-standing relationships with internationally recognised companies, Coiltek is trusted by industry leaders including Codan Limited, Minelab Electronics, Thermo Fisher Scientific, Leica Geosystems, APC Technologies, Entech Electronics, Base2, CSIRO, Daronmont Technologies, L3Harris, and Neumann Space.

Description

Coiltek – Precision Wire-Wound and Advanced Manufacturing Solutions

For over 20 years, Coiltek has specialised in the design and manufacture of intricate wire-wound components, including custom transformers, toroids, bonded coils, inductors, transmitters, solenoids, power supply windings, and advanced metal detector coil winding solutions. Our expertise extends across multiple industries, with growing alignment in the defence, rail, medical, space, mining, and manufacturing sectors, where precision, reliability, and performance are paramount.

In addition to our wire-wound capabilities, Coiltek provides a comprehensive range of services including PCB mounting, finished electronics assembly, cable manufacturing, and termination solutions. Working in close collaboration with your engineering teams, we deliver tailored solutions to meet specific design, technical, and operational requirements.

Our facility incorporates advanced automation and precision machinery, enabling greater consistency,

efficiency, and productivity across all manufacturing processes. With onsite engineering support, Coiltek partners with clients from concept to completion, ensuring uncompromising quality and dependable outcomes.

Coiltek also offers advanced additive manufacturing (3D printing) as part of our broader manufacturing capability. While we are not the only provider of this service, our highly skilled engineering specialists, combined with a focus on high-performance materials, allow us to deliver complex, high-strength, and cost-efficient prototypes and components to support defence and other high-specification applications.

With extensive experience in export markets, an established network of international distributors, and trusted supply chain relationships, Coiltek ensures seamless component procurement and delivery worldwide.

Coiltek is committed to innovation, precision, and partnership – delivering advanced manufacturing solutions trusted by defence and industry leaders across critical sectors.

COILTEK MANUFACTURING

Industries Served

- Audio
- Automotive
- Communications
- Defence
- Industrial
- Manufacturing
- Medical
- Mining
- Rail
- Research & Science
- Space

Products & Services

- 3D Printing Service & 3D printing
- Solenoids and Trigger Systems
- CNC Epoxy Dispensing and Encapsulation
- Conformal Coating
- Contract Manufacturing Service
- Electronics
- Wire Wound Products & Coil Winding
- Mechanical Design & Assembly
- Customised Wound Components
- Electronic Assembly Service
- Metal Detector Coils
- Inductors & transformers
- Custom Wound Coils & Bonded Coil Winding
- Toroid Winding
- High Precision Manual Coil Winding
- Assistance with Design for manufacture

Key Partners

- APC Technology
- Australian Rail
- Boeing Defence
- Codan
- CSIRO
- Daronmont
- Electromagnetic Imaging Technology Pty Ltd
- Entech Electronics Pty Ltd
- Fowlerex
- Halcro
- Hendon Semiconductors Pty Ltd
- Hydro Tasmania
- Halcro
- L3 Harris
- Leica Geosystems Pty Ltd
- Minelab Electronics Pty Ltd
- Monitor Sensors
- Neumann Space
- Sato Australia Pty Ltd
- SRO Technology

Facilities & Equipment

- Markforged industrial 3D printers
- CNC epoxy dispensing machines
- Robotic CoBots for automation
- Curing oven
- Laser engraving
- Automatic winding machines
- Automatic and semi-automatic toroidal winding machines

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Previous Significant Projects

Client: Sato Vicinity Group

Project: Toroidal Transformers and Inductors

Year: 2024

Value: \$200,000

Description: Procurement and winding of specific transformers and inductors to customer requirements. Handling multiple sizes wire types and complexities for fully automated machines designed for low-high customised wound parts.

Client: Atrad

Project: PCB Board Assembly for Amplifier Power Unit

Year: 2020

Value: \$100,000

Description: Through hole and surface mount soldering and assembly of components to a high spec PCB board. Mounting board to housing and heat sync. Final assembly and QA checks.

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Client: Thermo Fisher Scientific

Project: Tramp Metal Detector Coils

Year: 2015

Value: \$700,000

Description: Specialising in the manufacture of metal detector coils for conveyor belt metal detection technology in the global mining sector. Our end-to-end, turnkey service covers every stage from purchasing, sourcing, and engineering components to delivering fully assembled products. With in-house capabilities for multiple coil sizes and configurations, we combine precision wire winding, advanced electronic assembly, epoxy encapsulation, and 100% quality testing to ensure unmatched reliability and performance. Built to thrive in the harshest mining environments, our coils are trusted by operations worldwide to keep production running efficiently and safely.

Client: Hexagon Group

Project: BMM Transmitters

Year: 2009

Value: \$10,000,000

Description: Manufacturing of transmitter assembly including, wire winding, electronic assembly, epoxy encapsulation and 100% testing to customer requirements. Manufacturer of a custom receiver coil for use in mine sites globally.

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Client: SRO Technology

Project: Metal Detector Coils

Year: 2024

Value: \$500,000

Description: Specialising in the manufacture of metal detector coils designed for conveyor belt metal detection technology for the global mining sector. This comprehensive, turnkey service includes purchasing, sourcing, and engineering components, ensuring a seamless solution from concept to completion. Our in-house assembly capabilities cover multiple coil sizes and configurations, with expertise in wire winding, electronic assembly, epoxy encapsulation, and rigorous 100% quality testing delivering reliable, high-performance coils built to excel in the toughest mining environments.

Client: Coiltek Manufacturing Pty Ltd

Project: Consumer Metal Detector Coils

Year: 2007

Value: \$26,000,000

Description: Specialising in the design and manufacture of metal detector coils for gold prospectors and treasure detectorists. Our end-to-end capability spans specialist research and development, precision manufacturing, ISO9001-certified quality assurance, global distribution, and strategic marketing. With in-house expertise across multiple coil sizes and configurations, we combine advanced engineering, precision wire winding, electronic assembly, epoxy encapsulation, and 100% quality testing to deliver coils trusted for their performance, sensitivity, and durability. Exporting to over 36 countries worldwide, Coiltek brings decades of experience and long-term knowledge in international trade, ensuring reliable products and seamless delivery to detectorists across the globe.



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