



# QUALITY ENGINEERING SINCE 1953

## INDUSTRIES SERVED

- > AUTOMOTIVE
- > NUCLEAR SCIENCE
- > CLEAN ENERGY
- > DEFENCE
- > HEALTH
- > MANUFACTURING
- > MINING
- > OIL, GAS & ENERGY
- > PROFESSIONAL SERVICES
- > RAIL
- > STEEL
- > TRANSPORT

SERVICING INDUSTRY  
AND GOVERNMENT  
SINCE 1953'

Over 65 years  
of **quality**  
**engineering.**

## Company Details

Address: 11/63 Norman Street, Peakhurst  
NSW 2210

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Email: [sales@barrow.net.au](mailto:sales@barrow.net.au)

Website: [www.barrow.net.au](http://www.barrow.net.au)

ICN Gateway ID: 109685

Employees: 16

ABN: 83 151218 638

Locations: 2

Local Manufacturer: Yes

Importer: Yes

Exporter: Yes

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## Summary

Barrow Engineering specialise in CNC Machining for Defence, government science technology and research. While having extensive experience across the mining, rail and high voltage industries.

Barrow Engineering operates a LEAN manufacturing facility based on SixSigma and industry 4.0 principles. We work closely with our customers to continually look for opportunities to make them more competitive throughout their industries.

Barrow Engineering is part of the Australian Precision Manufacturing Group (APMG), AIDN and AUKUS Forum.

## Core Competencies

CNC Mill Turn Lathes, CNC Milling, CMM, LEAN Manufacturing, Automation, project management, through-life support

## Key Discriminators

1. The machining of small to medium components to extremely high tolerances.
2. Machining specialty in a variety of standard and exotic materials.
3. Quality assurance through total life cycle (AS:9100 Compliant).
4. Automation of production.
5. Export facilitation and capabilities.
6. Digital ERP/QMS system with live order tracking and quality/conformity document transparency.

## Machining Capabilities

CNC Multi-Axis- 5 Axis continuous machining. CNC Twin Spindle Mill Turn Lathes. 3 and 4 Axis Milling. Automatic loading and unloading. Zeiss CMM. On machine temperate control probing.

## QA Capabilities

Quality assured production, inspection, testing, validation and traceability from raw material to manufactured product as per AS1199. We employ Zeiss Contura CMM during component machining.

## Government Customers and Experience

ANSTO (Australian Nuclear Science and Technology Organisation) – Waste uranium filter cup assemblies. Various laboratory safety equipment.

Raytheon Technologies - SubSea project preferred supplier. Sonar and Tactical unit manufacture. On-going supply partner for various projects and machined component requirements.

## Industry Customers and Experience

Valley Longwall International – Longwall drilling gear box assemblies. Longwall drill rod assemblies. Underground diesel exhaust and flame-proof components. Roof stabilising assemblies.

Hitachi ABB – Various High voltage components.

Siemens - Signaling and motion control components for Railway systems. Ongoing repeat supply of Investment casting and machined components. Custom production cells for product specific manufacturing processes.



## Major Machine Listing

We currently operate the following machines:

- Mori Seiki NT4300 DCG – 5 axis simultaneous machining 1.5m x 400y x 800 in X with 680 diameter turn capacity, 100 tools to reduce set up times
- Okuma MacTurn 250W – 3 + 2 Mill/Turn, 1m x 400 x 70 Twin Spindle with Gantry Loader, 70 tools to reduce set up time
- Hyundai Kia Horizontal Mill – 900 x 900 x 750 twin pallet
- Okuma MB56VA Axis Vertical Mill – 1.1m x 560 x 600
- DMG Mori CMX600 Vertical Mill – 600 x 550 x 550
- DMG Mori NLX 2500 700 – 4 axis twin spindle lathe with an 80mm spindle bore, Automated with robotic interface
- DMG Mori NLX 1250 – Travelling steady, 1250mm chuck to center, programmable tail stock
- Mazak Quick Turn 40 – 2 Axis Lathe 750 Z x 320mm diameter
- Okuma LB300M – 3 Axis lathe, 520 Z x 370 x 70 diameter bar capacity
- Okuma LB300BB – 3 Axis lathe, 520 Z x 450 x 100 diameter bar capacity
- Okuma LB300MYW-4 axis twin spindle lathe

## Associations

- Australian Precision Manufacturing Group (APMG)
- Australian Industry Defence Network (AIDN)
- ICN Gateway



## PRODUCTS & SERVICES

- Design, engineering, prototyping, CAD
- Make-to-print
- CNC Mills (5 Axis) and CNC Multi Function
- CMM and Metrology
- Manufacturing and Fabrication
- Part manufacture and assembly
- Assembly Tools, Welding Fixtures, Jigs and Gauges
- Project Management
- Through Life Support
- Prototype Manufacture
- Precision Machining
- Volume Machining
- Value Added Services
- Cost Down Analysis
- Reverse-engineering
- Fabricated & Machined Foundations

## ACCREDITATIONS

- ISO 9001:2015

## FACILITIES AND EQUIPMENT

- CMM Measurement
- CAD/CAM
- 1200m2 of hard-standing floor space
- Jib and overhead cranes

## INDUSTRIES SERVED

- Automotive
- Clean Energy
- Defence
- Health
- Manufacturing
- Mining
- Oil, Gas & Energy
- Professional Services
- Rail
- Steel
- Transport
- Water
- Nuclear Science

## MAJOR CLIENTS

- ANSTO (Australian Nuclear Science and Technology Organisation)
- Raytheon Technologies
- Valley Longwall International
- Hitachi ABB
- Enware
- KNORR-BREMSE
- Siemens
- Monroe Springs

## PREVIOUS SIGNIFICANT PROJECTS



### VALLEY LONGWALL INTERNATIONAL (DIESEL DIVISION)

#### DES Exhaust Scrubber Systems

\$3,500,000.00

Development, manufacture and supply of fully assembled Underground Flameproof Exhaust Scrubber Systems. Individual components of the assemblies needed to be transferable between a large fleet of different machinery which was previously not achievable.

Barrow streamlined the designs and manufacture procedure to ensure repeatability through tight tolerances, extensive jiggging, advanced machining capabilities and stringent quality checks. All aspects of the Barrow Engineering manufacturing capacity required to ensure machining and fabrication tolerances were adhered too.

### VALLEY LONGWALL INTERNATIONAL (DRILLING DIVISION)

#### Directional rotating Longwall Drill head and Gearbox Arrangement

\$2,500,000.00 per year (7 years of continual supply)

Advanced CNC manufacturing of all critical and non-critical components relating to the directional drilling assembly. Including the facilitation of all HVOF and additive manufacturing components and final machining.

Up to 5-axis machining required, variety of exotic materials and post heat treating machining methods used. Full life cycle of project facilitated by Barrow Engineering

Full scope of work undertaken by one manufacturer to ensure the correct fitment and repeatability of components for transferability between project builds. \$1mil capital investment made at beginning of project scope to streamline methods and ensure continuous cost saving to end client.



**Raytheon**  
Australia

### Raytheon Technologies

#### Tactical and Sonar Sub Kit Consoles

\$1,200,000.00 (5 month Project)

Full scope manufacture of complex assembly builds - CNC machining, surface treatment, painting and assembly with approximately 1500 individual BOM items.

Design and manufacture process liaison and advisement with Raytheon Technologies engineering departments.

Supply direct to site assembly from Barrow Engineering facility.

# Want to find out more?

## Let's chat.

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