

Capability Statement

07 Sep 2020

QPE ADVANCED MACHINING PTY LTD



INDUSTRIES SERVED

AUTOMOTIVE

CLEAN ENERGY

DEFENCE

HEALTH

IT &
COMMUNICATIONS

MANUFACTURING

MINING

OIL, GAS & ENERGY

PROFESSIONAL
SERVICES

RAIL

STEEL

TRANSPORT

WATER

Company Details

Address: 1 Matson Court
Gillman SA, 5013 Australia

Ph: +61 8 8241 0888

Email: sales@qpeadvancedmachining.com

Web: www.qpeadvancedmachining.com

ICN Gateway Company ID: 106686

Employees: 50

ABN: 83 634 263 791

Locations: 4

Local Manufacturer: Yes

Foreign Manufacturer: Yes

Importer: Yes

Exporter: Yes

NT CAL Accredited: No

Works in Remote Locations: No

Australian Indigenous Owned: No

Contacts

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Qpe - Advanced Machining Qpe - Advanced Machining

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Core Competencies

CNC Mill Turn Lathes, CNC Boring, CNC Milling, CMM, EDM, Wire Cut, Wire EDM, Precision Grinding, NRE manufacture, assembly services, project management, installation, through-life support, service and repair

Key Discriminators

1. The fabrication of large exotic material components into pre-machined assemblies
2. The machining of large components and assemblies to extremely high tolerances - typically associated with aerospace components
3. Full maintenance schedule (service/repair/overhaul) of components, sub-assemblies and higher assemblies (a unique capability-service)

Machining Capabilities (general)

CNC multi-axis (3/4/5) stations, including CNC Mill Turn Lathes, CNC Boring, CNC Milling, Wire Cutting, Wire EDM and Precision Grinding. Latest generation CMM, EDM.

Summary

QPE Advanced Machining specialises in precision machined components and assemblies for defence, medical, electronics, mining, aerospace and renewable energy. QPE provides quality assured production incorporating processes for CNC machining, assembly, inspection, validation and traceability.

QPE operates a clean manufacturing facility based on lean principles. We work closely with our customers to continually look for opportunities to make them more competitive.

QPE Advanced Machining is part of the Precise Advanced Manufacturing Group (PAMG)

Description

Core Competencies

CNC Mill Turn Lathes, CNC Boring, CNC Milling, CMM, EDM, Wire Cut, Wire EDM, Precision Grinding, NRE manufacture, assembly services, project management, installation, through-life support, service and repair

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Machining Capabilities (general)

CNC multi-axis (3/4/5) stations, including CNC Mill Turn Lathes, CNC Boring, CNC Milling, Wire Cutting, Wire EDM and Precision Grinding. Latest generation CMM, EDM. Faro Laser tracking is employed for real time CMM during large component precision machining

Service Capabilities (general)

Project management, engineering design, prototyping, design iteration development, manufacturing design, production and through-life support, development, modification / enhancement, service and repair

QA Capabilities (general)

Quality assured production, inspection, testing, validation and traceability from raw material to manufactured product. We employ Faro Laser tracking for real time CMM during large component machining

Intellectual Property and Technology Partnerships Commonwealth of Australia/Defence Science and Technology, Australian Manufacturing Technology Institute Limited (AMTIL), Society of Plastics Engineers (SPE).

1. Emergency Pipe Repair Clamp (DST Aust Gov patented lever clamps)
2. Rivet Hole Alignment Tool (DST Aust Gov patented tooling)

Affiliated Companies

QPE Fabrication, Precise Global, Valley Precise Global

Defence Customers and Experience

Thales - Clip On Influence Sweeps (CLOIS) as part of Minesweeping System (AMAS). AAG & IAAG Projects MacTaggart Scott Australia - Fabrication and Precision Machining of Nickel Aluminium Bronze Castings of Assemblies on the Auxiliary Drive Units of the Collins Class Submarines.

ASC - Auxiliary Drive Units of the Collins Class Submarines and various machining parts

BAE Systems - Various machining parts and Rivet Hole Rework Tool for BAE Hawk and RAAF

PMB - Spanners, battery blocks

EOS - Optical mounts, Gun mounts

Babcock - RFTP & parts for Collins Class Submarine

DST - Emergency Pipe Repair Clamp (DST Aust Gov patented lever clamps), Rivet Hole Alignment Tool (DST Aust Gov patented tooling)

Varley - Machining Components

Ultra-Electronics - Arrays machining

Wartsila - Spacer Ring (Starboard) SEA 4000 AIR WARFARE

X-Tek - Rifle parts

RAAF, DST & Commonwealth of Australia - Rivet Hole Alignment Tooling

United States Navy - Emergency Pipe Clamps

Major Machine Listing (Capability)

1 x Doosan DBC Series - CNC Boring Machine with latest FANUC 31i Five Axis Simultaneous Controller (X2500, Y2000, Z1500, W550, 10 Ton capacity)

2 x Mazak Quick Turn 350MY Mill Turn Lathe (Z-1500, Diam-500)

2 x Mazak Quick Turn 200 Mill Turn Lathe (Z-700, Diam-200)

2 x AG80L Linear Motor EDM (X-600, Y-400, Z-400)

1 x AD35L Linear Motor EDM (X-350, Y-250, Z-270)

3 x Sodick 4 axis CNC EDM (X-850, Y-600, Z-750)

2 x DMG 5 axis CNC Milling machines (X-1050, Y-900, Z-750)

1 x Sigma 3 axis CNC Milling machine (X-4050, Y-2200, Z-750)

1 x Nicolas Correa 3 axis CNC Milling machine (X-4100, Y-2200, Z-1200)

1 x Hartford 3 axis CNC Milling machine (X-5100, Y-3400, Z-1250)

1 x Zayer 3 axis CNC Milling machine (X-8050, Y-3000, Z-1500)

We employ Faro Laser tracking for real time CMM during large component machining
Latest generation CMM and Metrology lab

Soft Discriminators

ADF (RAAF) solution provider - QPE, DST and Commonwealth Government shared IP experience, Large capacity (over 50 people), Latest CNC Mills and Lathes, Highly-skilled and diversified workforce accustomed to Defence work and standards

Associations

- > Commonwealth of Australia/Defence Science and Technology
- > Australian Industry Defence Network (AIDN)
- > Defence Teaming Centre
- > Australian Manufacturing Technology Institute Limited (AMTIL)
- > Society of Plastics Engineers (SPE)

Products & Services

- > Design, engineering, prototyping, CAD
- > Make-to-print
- > CNC Mills and CNC Lathes up to 5 axis
- > 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

Industries Served

- > Automotive
- > Clean Energy
- > Defence
- > Health
- > IT & Communications
- > Manufacturing
- > Mining
- > Oil, Gas & Energy
- > Professional Services
- > Rail
- > Steel
- > Transport
- > Water

Accreditations

- > ISO 9001:2015
- > ITAR Approved (QPE Advanced Machining)

Major Clients

- > Thales
- > MacTaggart Scott Australia
- > ASC
- > BAE Systems
- > Babcock
- > General Dynamics
- > Air Warfare Destroyer
- > Attorney Generals
- > US Armed Forces
- > Canadian Armed Forces
- > RAAF
- > DST & Commonwealth of Australia (Rivet Hole Alignment Tooling)
- > United States Navy (Emergency Pipe Clamps)
- > Maptek
- > Gamsee Industries
- > Leica Biosystems
- > Bishop Steering Technologies
- > Ellex Medical Lasers
- > EOS

Facilities and Equipment

- > 1 x Doosan DBC Series - CNC Boring Machine with latest FANUC 31i Five Axis Simultaneous Controller (X2500, Y2000, Z1500, W550, 10 Ton capacity).
- > 1 x Faro Laser Tracker X.
- > 2 x Mazak Quick Turn 350MY Mill Turn Lathe.
- > 3 x Sodick 4 axis CNC EDM.
- > 2 x DMG 5 axis CNC Milling machines.
- > 1 x Sigma 3 axis CNC Milling machine (X axis - 4050mm).
- > 1 x Nicolas Correa 3 axis CNC Milling machine (X axis - 4100mm).
- > 1 x Hartford 3 axis CNC Milling machine (X axis - 5100mm).
- > 1 x Zayer 3 axis CNC Milling machine (X axis - 8050mm).
- > Mori Seki CNC Mill-Turns.
- > 4, 5, and 7 Axis.
- > Sodick EDM's, CNC Wire and RAM.
- > Surface Grinding.
- > CMM Measurement.
- > CAD/CAM.
- > Turret Punch & Fabrication Equipment.
- > 12,000m² of hard-standing floor space.
- > Rail Bending & Manufacture Equipment.
- > 3 x 5 tonne cranes.
- > 3D Printing.

Previous Significant Projects

2019

Clip On Influence Sweeps (CLOIS) as part of Minesweeping System (AMAS)
\$1,500,000

Client: Thales Australia

As part of the Thales Australia's Minesweeping System (AMAS) Thales Australia is also supplying Clip On Influence Sweeps. QPE was contracted for manufacture of critical components. No other information can be given unless client authorised.

2010

Assorted Defence projects demonstrating diversity
\$1,500,000

Client: Assorted

ASC - Auxiliary Drive Units of the Collins Class Submarines and various machining parts
BAE Systems - Various machining parts and Rivet Hole Rework Tool for BAE Hawk and RAAF
PMB - Spanners, battery blocks
EOS - Optical mounts, Gun mounts
Babcock - RFTP & parts for Collins Class Submarine
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Varley - Machining Components
Ultra-Electronics - Arrays machining

2019

Collins Class Auxiliary Drive Cross-Head
\$1,000,000

Client: MacTaggart Scott / ASC

QPE was selected by MacTaggart Scott Australia for the Fabrication and Precision Machining of Nickel Aluminium Bronze Castings and Assemblies on the Auxiliary Drive Units of the Collins Class Submarines.

Tolerances for welding, alignment and machining of separate castings into a single structure were extreme. Laser tracking was employed within this process to ensure success.

No other information can be given unless client authorised.



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