



PERFECTUNE ENGINEERING

*Precision Machining Engineering
Service Company*



Mission Statement

- *“We are committed to providing high quality products and the most responsive competitive and professional services within our chosen fields. Together with the building of solid business relationships with clients, suppliers, partners and employees”.*

Jim Petrakis CEO



Company Overview

- PERFECTUNE ENGINEERING-
part of the Jadecoast group of
companies, founded in 1962 in
Melbourne, Australia
 - CEO- Mr Jim Petrakis (BEc MBA)
Monash University
 - Mr George Petrakis (BEng Industrial),
Melbourne University
 - Mr Jack Petrakis (BEng Civil
Engineering, Monash University
- Australian Engineering and
Manufacturing Focused Business
- Private Family Business
- Flat Organization



Perfectune Engineering-Background

- PERFECTUNE Engineering Company established in **1962**
- First CNC Machines in Australia and GM OEM supplier
- Originally provided Precision Machining, Milling & manufacturing alloy engine heads, supercharger compressors, valve train products
- Launched the “The Yella Terra” brand of Hi Performance Racing products in Australia.
- Strong Motorsport Heritage



Perfectune Engineering

Perfectune Engineering-Today

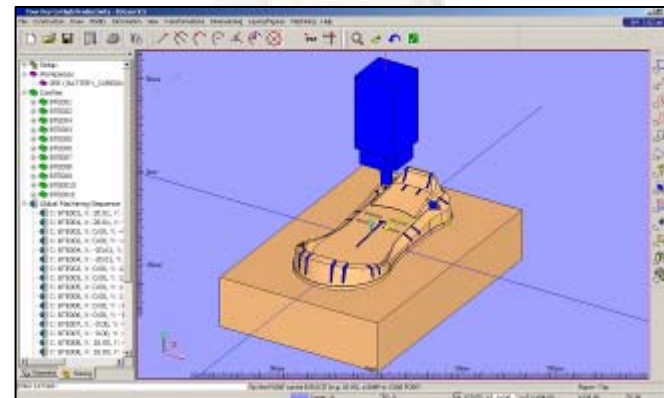
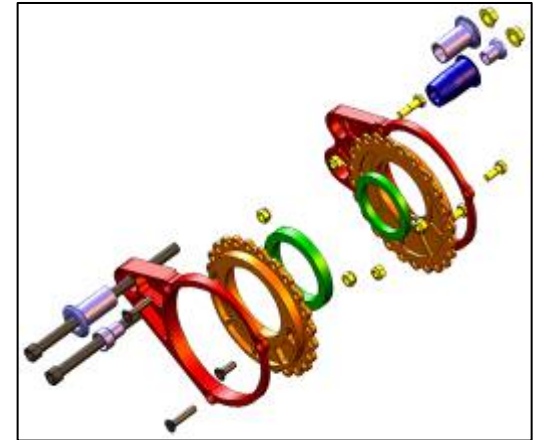
- Design – Engineering-
Manufacturing Company
- Qualified engineering staff
- 30 Employees
- Experienced Technicians
- Qualified 1st Class Machinists
and programmers
- AutoCAD capability
- Medium to Mass Production
Capability
- Wide Customer Base



ENGINEERS
AUSTRALIA

Perfectune Engineering-Services Offered

- Prototyping
- Design
- New Product Engineering
- Reverse Engineering
- Manufacturing
- Production



Perfectune Engineering-Industries Served

- Mining,
- Petrochemical,
- Military,
- Medical,
- Automotive Motorsport hi-performance
- Aero Space
- Research



Perfectune Engineering - Client Base

MONASH
UNIVERSITY



ISUZU



HOLDEN



MACNAUGHT



Perfectune Engineering- Sample of Work



Perfectune Engineering Capabilities- Overview

- **Machining Centers:** (9) 5 Vertical & 4 Horizontal. (Latest 2008)
 - Work envelope from small to 1050x550x550mm.
 - 4 axis capability, up to 20,000 RPM
 - twin pallets for continuous operation.
- **CNC Lathes:** 7 CNC lathes with bar feeders (Latest 2008)
 - Mill-Turn capability and up to 7 axis's.
 - up to 12 driven tools for radial or axial milling, drilling and tapping,
 - Turning capacity is from very small to 400mm dia x 1000 long.
- **CMM Machines.**
 - Co-ordinate measurement of critical components and dimensions is carried out on our Mitutoyo V231 - 5 micron resolution
- **Quality.**
 - Holder of ISO9001-2000 quality accreditation issued through Lloyd's Registry.



Perfectune Capability- Precision Horizontal Machining Centres

COMPUTER CONTROLLED MILLING MACHINES



2 @ MAKINO A55

- Twin pallet High Speed Horizontal Machining Centres
- Work cube 560 x 560 x 600mm
- 20,000rpm
- CNC controlled feeding 4th axis.



HITACHI

2 @ HITACHI HC400

- Twin pallet Horizontal Machining Centres
- Work cube 500 x 500 x 600mm
- CNC controlled 1° indexing 4th axis.



Perfectune Capability- Precision Vertical Machining Centres

1 @ MATSUURA MC 1000V

- Vertical Machining Centre
- Fitted with CNC controlled 4th axis

1 @ HITACHI SEIKI VA55

- Twin pallet High Speed Vertical Machining Centre
- Work cube 1050 x 550 x 550mm

1 @ HITACHI SEIKI VA45

- Twin pallet High Speed Vertical Machining Centre
- Work cube 1250 x 400 x 450mm 6000rpm
- CNC controlled 4th axis

1 @ ENSHU EV450

- Vertical Machining Centre
- Working cube 400 x 400 x 400 10,000rpm
- Fitted with CNC controlled 4th axis

1 @ HAAS MDC-500

- Twin pallet High Speed Vertical Machining Centre
- Work cube 400 x 400 x 400 10,000rpm
- 2 x CNC controlled feeding 4th axis



Perfectune Capability– Precision Turning Centres

2 @ MIYANO 7 AXIS CNC LATHE – MILL TURN MACHINE

- Maximum barfeed dia 51mm

1 @ MORI SEIKI SL-1A

- CNC lathe. Max bar feed dia 32mm
- Max. swing dia 150mm X 315mm BC

1 @ WASINO LJ-103M

- Cnc mill turn machine.
- Max. swing dia 430 x 960mm bc, spindle bore 65mm dia.
- 3 Axial & 3 Radial powered spindles on turret.

1 @ PUMA 300 MS

- CNC mill turn lathe. Max. bar feed dia 101mm
- Max. swing dia 600mm X 700mm BC

1 @ PUMA 250B

- CNC lathe. Max. bar feed dia 77mm
- Max. swing dia 400mm X 650mm BC

1 @ PUMA 240L

- CNC lathe. Max. bar feed dia 76mm
- Max. swing dia 420mm X 650mm BC



Perfectune Capability – CMM & Metrology

METROLOGY AND INSPECTION EQUIPMENT

CO-ORDINATE MEASUREMENT

1 @ MITUTOYO V231

- 3 Axis Computerised Co-Ordinate measuring machine.
- Print out of component dimensions with ability to highlight
- Out of tolerance dimensions. Work cube 700 x 600 x 450mm.
- Ability to transfer co-ordinates of a sample component direct to drafting systems.

HARDNESS TESTING

AVERY HARDNESS TESTER

SURFACE MEASUREMENT

1 RANK TAYLOR HOBSON “TALLY SURF”

- With printout of surface waviness etc.



Perfectune Capability-Other Services

OTHER CAPABILITIES

- Production MIG TIG welding services
- Robotic Welding
- CNC Tube Bending
- Comprehensive toolroom facilities
- Light assembly operations
- Project management from concept to full volume production.



QUALITY

- ***Current holder of ISO 9001:2008***
- ***Accredited since 4th of July 2003***
- ***Approved by Lloyds Register Quality Assurance***
- ***Applicable to the manufacturing of precision components and assemblies to the Aerospace, Automotive, Mining, Medical, Defense and private industries for local and overseas markets***
- ***Six month Audits***



Perfectune Awards

- 1st in the Family Business Awards: First Generation 2003 and 2005
- Industry Achievement Award 2006 – Leading Industry Capability



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