

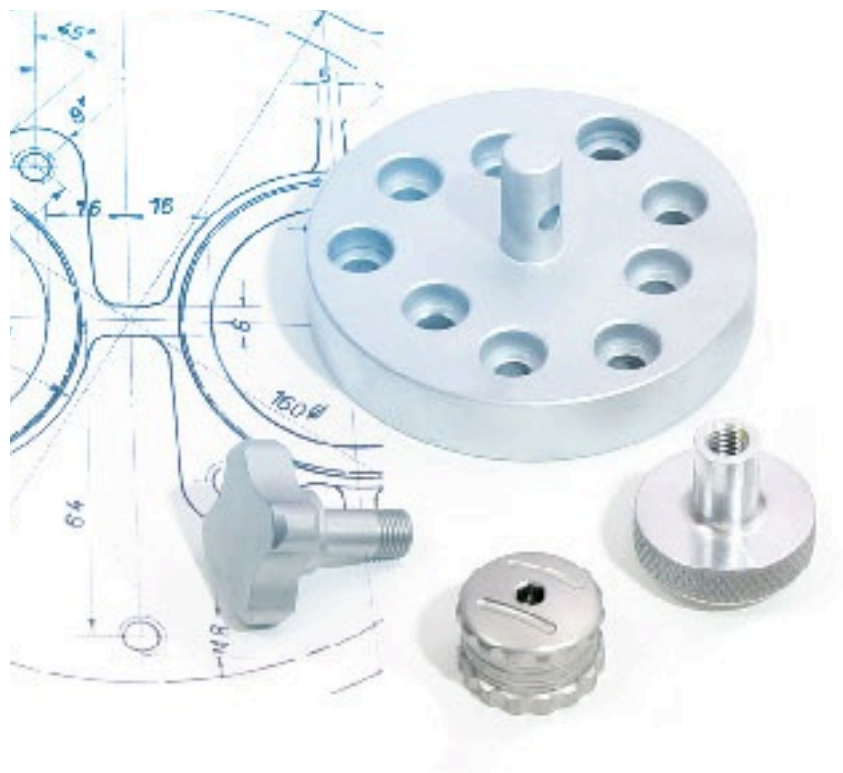
# Perfectune

ENGINEERING

---

PRECISION  
MACHINING  
ENGINEERING  
SERVICE  
COMPANY





## MISSION STATEMENT

---

“We are committed to providing high quality products and the most responsive, competitive and professional service within our chosen fields. This is achieved by building solid business relationships with clients, suppliers, partners and employees”.

Jim Petrakis, CEO



# HISTORY

---

Established in 1962 by "Dyno" Dave Bennett, Perfectune Engineering was the first engineering company in Australia with CNC machining capabilities. During the late 1970's to the mid 1980's, the company was a 1st Tier supplier to General Motors for OEM engine components.

During this time Dave Bennett and his team launched Yella Terra, Australia's leading brand of high performance racing parts. To this day, Perfectune Engineering and Yella Terra are leaders of innovation and development in the motorsport and high performance industries.

# COMPANY TODAY

---

Today Perfectune Engineering is a Design, Engineering and Manufacturing Company that is able to serve diverse industries and is recognised nationwide for its technical excellence and the development of innovative products.

Perfectune Engineering has seen expansion in the industries it serves through its capabilities and in the people that help make the company function on a day-to-day basis. The Engineers, Technicians, 1st Class Machinists, Programmers and CAD designers manage the company's vast capabilities, which range from design/prototype work to medium and mass production runs.





# INDUSTRIES SERVED

The automotive industry may be the heartland of the company, however it is not constrained to this arena. During its long history, Perfectune Engineering has procured a client base that spans the globe, from Australasia, Europe and America, and firms that operate in a wide range of industries including:

- Mining
- Research
- Petrochemical
- Military
- Medical
- Automotive Motorsport
- Aero Space
- Power Generation
- Fabricators







## SERVICES OFFERED

---

Perfectune Engineering is dedicated to providing the ultimate precision engineering service. Engineering excellence, innovation and design flair is instilled within all aspects of the business, from prototyping and design, through to project management and manufacturing.

***Prototyping, Design & New Product Engineering*** - New products are designed and developed constantly and demand for high quality prototypes is becoming even greater. Perfectune Engineering's expertise in product design has led to the development of a strong design team, that is capable of building professional & high quality prototypes and products on a quick turn-around and to specification.

***Project Management and Fulfillment*** - Project management begins with a knowledgeable account manager who guides your project from quote through to delivery. All account managers have worked in the field, and bring a hands-on experience to work for you.

***Manufacturing & Production*** - Advanced CNC manufacturing techniques have earned the company a reputation as an efficient and reliable source for a large range of components. From process design and production layout to a supply chain management that delivers materials on a "just-in time" basis at competitive costs. Perfectune Engineering helps clients create a complete manufacturing solution customised to each client's unique requirements.

### ***Other Services***

- Extensive tool room facilities
- Robotic Welding
- CNC Tube Bending
- Production MIG TIG welding
- Light assembly operations
- Contract Work
- Complex Machining Processes
- Process Design Development



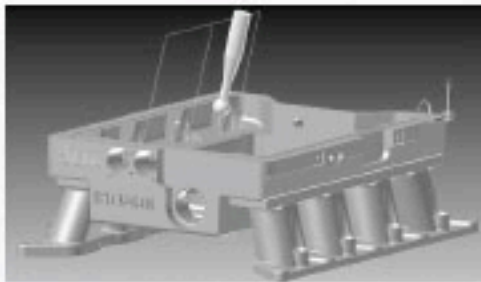


# CAPABILITIES

Perfectune Engineering's workshop facilities and machining centers are among the largest in the country and include premium brands that are trusted and highly dependable within the industry, such as Makino, Hitachi, Matsuura, Enshu and HAAS.

Using state of the art manufacturing software and machinery Perfectune Engineering is able to produce a wide range of parts of varying size and shape, made from the latest materials, including aluminium, brass, castings, bronze, steel, copper, peak plastics and exotic metals such as Inconel, magnesium, titanium and monel.

## **SURFCAM SOFTWARE**



As a user of SURFCAM, a state of the art machining software, the team of engineers and machinists are able to gain precise control over every aspect of multi-axis machining and Lathe turning, facing, grooving, boring and threading, ensuring safe tool motion in the most challenging applications.

- True simultaneous 4 axis machining allowing full visualisation and verification of tool motion
- Multi surface 4 and 5 axis machining that supports all standard tools
- Advanced strategies for face, groove, corner round and chamfer milling
- Sub-spindle programming and automatic retract logic for complex inner diameter machining
- One-step ID/OD roughing and finishing for turning
- Seamless integration of live tooling and off-centre operations for mill/turn programming

## **HORIZONTAL MACHINING CENTERS**

### **2 MAKINO A55**

- Twin pallet high speed horizontal machining centers
- Work cube 560 x 560 x 600mm, up to 20,000RPM
- CNC controlled feeding 4th axis



### **2 HITACHI HC400**

- Twin pallet horizontal machining centers
- Work cube 500 x 500 x 600mm
- CNC controlled 1° indexing 4th axis





## VERTICAL MACHINING CENTERS

### 1 MATSUURA MC 1000V

- Vertical machining center
- Fitted with CNC controlled 4th axis
- 800mm x 1000mm x 710mm



### 1 ENSHU EV450

- Vertical machining center
- Work cube 400mm x 400mm x 400mm, up to 10,000RPM
- Fitted with CNC controlled 4th axis



### 1 HITACHI SEIKI VA55

- Twin pallet high speed vertical machining center
- Work cube 1050 x 550 x 550mm



### 1 HITACHI SEIKI VA45

- Twin pallet high speed vertical machining center
- Work cube 1250 x 400 x 450mm, up to 6000RPM
- Fitted with CNC controlled 4th axis



### 1 HAAS MDC-500

- Twin pallet high speed vertical machining center
- Work cube 400 x 400 x 400, up to 10,000RPM
- 2 x CNC controlled feeding 4th axis



## CNC LATHES

### 2 MIYANO 7 AXIS CNC LATHE

- Mill turn machine
- Max bar feed 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





## CMM & METROLOGY

### 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

### AVERY HARDNESS TESTER

- Hardness testing

### 1 RANK TAYLOR HOBSON "TALLY SURF"

- Surface measurement with printout of surface quality.

# PROJECTS COMPLETED

---

Below are examples of projects completed that show Perfectune Engineering's capabilities.





# QUALITY ACCREDITATIONS

---

## *Quality Policy*

Perfectune Engineering is totally committed to providing zero defects and zero late deliveries at competitive pricing, with a focus and commitment to consistently meet and exceed every customer's expectations through continuous improvement.

Perfectune Engineering's quality policy is more than a statement, it's an attitude, the company's highly skilled workforce stands behind this statement everyday in an effort to deliver the highest quality service and product possible.

Quality is at the core of the business and the policy of putting the customer first is built on a foundation of providing the highest levels of quality and service. This is achieved by absolute conformance to all specifications, constant process improvements and a robust training program to enhance employee skill levels.

- Holder of ISO 9001: 2008, accredited since 4th of July 2003 and approved by DQS Certification.
- Six-month audits are completed to ensure our processes are up to date to ensure 100% client satisfaction
- Advanced measurement capabilities including vertical CMM







**PERFECTUNE ENGINEERING**

273 Wickham Road

Moorabbin

Victoria 3189

AUSTRALIA

Ph: +613 9555 5990

Fx: +613 9555 5993

[www.perfectune.com.au](http://www.perfectune.com.au)