

PRECISION | AUTOMOTIVE | AEROSPACE | MARINE

BROENS

EXCELLENCE IN ENGINEERING



With superior product knowledge and process expertise, **choose the experts to design and manufacture** to your specifications, on time, every time.

IF YOU WANT A JOB DONE WELL...GO TO BROENS,
WHERE WE GIVE YOU THE COMPETITIVE EDGE.

BROENS

Broens, one of the world's most advanced, high-tech engineering companies, delivers precision engineering, tooling, special purpose machinery and automation solutions across key industries in the industrial, commercial and defence sectors.



Exporting to over 16 countries worldwide, Broens is a proud Australian company with a truly global outlook. Today, we have a dedicated network of sales and service centres throughout Australia, the USA, Asia and Europe.

Quality accredited to AS/NZS ISO 9001:2000, and AS 9100 to be implemented by the end 2006, Broens is leading the way through dedicated quality control and management systems. We're also committed to innovation. As a member of the Australian Industry Group, Tooling Australia, and other key industrial and commercial associations, we are able to utilise the latest technologies and trends.



What makes Broens different?

In short, Broens delivers the right solution at the best possible price. By keeping abreast of super-efficient processes and technology, we can leverage our quality management systems to provide the best in service, quality and time.

Project Management

Broens elite project management team understands the diverse nature of engineering. All our teams are hand-picked for each project, combining experience, specialist skills and problem-solving capabilities.

Skilled Labour

We only employ proven, highly skilled and adaptable colleagues from diverse trade backgrounds. In turn, these are supported by design and engineering teams containing tertiary qualified engineers. So you're guaranteed the best people every time.



CORE COMPETENCES

Product Knowledge

We've been around for a long time and have a wealth of experience to draw on. Our extensive product knowledge is second to none and our development processes finely tuned to cover a massive range of opportunities and projects.

Process Expertise

Through advanced engineering design programs and machining specialists, we have carefully developed ongoing efficient manufacturing solutions.

Bespoke Design

Broens uses the latest 3D modelling software and design applications. We also guarantee customer confidentiality with their intellectual property throughout the project's lifetime, by incorporating high-level, on-site security measures and highly secure links for data transfer.

Mechatronic Augmentation

By integrating our mechanical and electrical engineering design teams with skilled technicians, we believe we can deliver world-class automated, machine-based or combined mechatronic applications.

Manufacturing Capacity

With 12,000sqm of high-tech manufacturing space, our facilities can be adapted to almost any project. We offer dedicated machine shops, production and assembly areas, internal fabrication and a specialist metrology lab. Broens also offers a complete in-house manufacturing capacity by operating the latest in 3, 4 and 5-axis CNC machining centres, CNC turning, cylindrical, surface and jig grinding, wire cutting, EDM, water-jet cutting, fabrication and painting.

Research & Development

Innovation is at the heart of everything we do. Only by heavily investing in R&D programmes, including on-going investment in the latest technology, can we continue to support our world-class design and manufacturing operations.

Quality Control

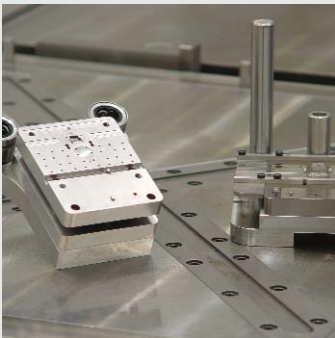
Broens operates a highly sophisticated quality system that ensures output meets product specifications. Already certified to AS/NZS ISO 9001:2000, Broens will be accredited by Q3 2006 to AS 9100 standards. On-site facilities include a specialist temperature controlled metrology lab, with the latest coordinate measuring machines, and laser tracking inspection equipment.

Customer Service

Companies consist of people, not just processes. Broens maintains a strong customer focus through the dedication, ongoing training and support of its employees. This is delivered through a network of sales and service centres throughout Australia, the USA, Asia and Europe.

PRECISION

You need it done quickly, and done well. By integrating Broens superior engineering capabilities, Broens Precision specialises in the design and manufacture of precision engineering applications.



Component Machining:

- Sophisticated manufacturing processes
- One-off or high volume production
- Component inspection facilities

Assembly Manufacturing:

- Advanced processes
- Dedicated facilities
- Specialist technicians



Press Metal Tooling:

- Complete tooling solutions
- Latest equipment
- Tryout and buyoff
- Low to high volume production

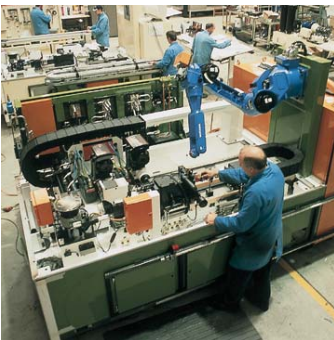


Metal Stamping:

- Pressing capacity up to 700t
- Automatic coil feed system
- Component inspection and storage facilities
- Responsive and flexible service

AUTOMOTIVE

Broens Automotive has driven many major vehicle manufacturers to stay one step ahead of their competitors. This division is exclusively geared to focus on the delivery of special purpose machines and integrated manufacturing systems to the automotive industry.



We take great pride in producing unique, special purpose machines for use across all facets of the automotive industry. By combining our extensive product processing knowledge with state-of-the-art machining technology, Broens Automotive has created a world-leading facility for the production of high volume, precision-machined automotive components. Our facility integrates multi-axis, twin spindle high speed machining technology, live turret CNC lathes, an intelligent conveyor, CCD and CMM in-process gauging, and robotics handling to create a completely automated and highly efficient turnkey system.

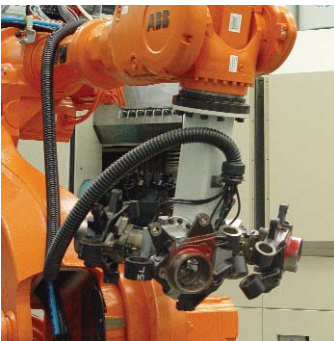
Our specialised applications include:

Machine Technology:

- World-leading technology
- Mechatronic augmentation
- Innovative applications
- Specialist technicians

Machine Tools:

- Precision machines
- Multiple axis centres
- Bespoke systems



AEROSPACE

We've taken the aerospace industry to new heights by integrating Broens superior engineering capabilities into Broens Aerospace. Geared to provide specialist engineering applications to the commercial and military aerospace industry, our integrated manufacturing systems are already in place.



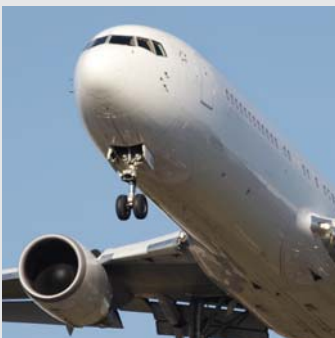
From aircraft components and ground support equipment to automated assembly applications, Broens specialist teams will design, manufacture and project manage large-scale operations. Supported by international offices throughout the USA, Europe and Asia, Broens Aerospace provides a strong local service with true global capability in sales, service and technical support.

We already exceed globally recognised industry certification and expertise and our flexible plant can be configured to exact specifications, utilising large scale, multi-axis CNC machining centres up to 18 metres in length, with temperature controlled metrology inspection labs and laser tracking facilities.



Component & Aerostructure Tooling Systems:

- Layup mandrels up to 30m
- Stringer tooling
- Metal and composite tooling
- Resin transfer moulds



Ground Support Equipment:

- Customer specific applications
- Reliable and cost effective service

Assembly Automation:

- Customer specific applications
- Advanced processes.

MARINE

Broens Marine delivers machined, marine specific components as well as products that exceed the critical performance criteria of the competitive yachting industry. New techniques and continual design improvements have made marine one of the most fascinating areas where manufacturing can really determine performance.



Using specialist materials and the latest advanced manufacturing processes, Broens Marine can provide the competitive edge. We believe we have some of the best engineering specialists in Australia - a dedicated local team with a truly global capability. Key features of Broens Marine include:

Marine Specific Components:

- Machining capability up to 18m and 30t
- Precision-machined scale models
- Fabrication, assembly and painting
- Bulkheads, jigs, dummy templates and tooling dies



Yachting Industry Keels and Bulbs

- Canting, fixed and trim-tab
- +/- 0.1mm tolerance
- Fully machined forged steels and stainless steel struts
- Fully machined calcium and antimony cast lead ballast bulbs.
- Fully machined Tungsten ballast bulbs.





"Over the years, we have gained a growing reputation in many countries throughout the world for excellence in engineering. Today our service centres and sales networks operate in over 16 countries.

We have achieved this, through our people, innovation, technology and by maintaining long-standing partnerships with our clients. We look forward to working with you for many years to come." - Carlos Broens.



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