

*a company profile*

Corrosion  
Environmental  
Engineers and  
Fabricators



## Overview

Maskell supply a wide range corrosion resistant fibreglass (FRP) pipe and process equipment for industrial applications in the Australasian region. Maskell have proven international competitiveness in the fibreglass industry through engineering expertise and automated manufacturing plant and equipment. In house engineering is supported by a range of international associations, to provide clients with the world's latest technology. Services to clients extends from manufacturing to complete design, manufacture and install packages.



## Corrosion Environmental Engineers

Over 35 years ago, Maskell was a pioneer in the use of plastics and fibreglass for engineering applications in New Zealand. Today the company continues to be a market leader in the use of fibreglass for containment, handling and treatment of corrosive industrial chemicals and gases. In order to provide high performance cost competitive solutions to the diverse needs of industry, we draw upon international expertise where required, which complements our internal skills and proven experience. The result is a unique organisation - one capable of the design, production, supply and installation of equipment which handles corrosive and polluting materials for the needs of industry today, and into the future.



Managing Director David Craig, explains, "When we established Maskell back in 1968, it was clear that industry's demand for high performance, non-metallic equipment was not being met. For this reason we sought and established technology agreements with leading international organisations in this and allied fields. We now have licence and marketing agreements with numerous overseas companies, all highly successful in their particular fields. They have all contributed greatly over the years to our capabilities and on-going success." "We are very proud of the quality and engineering of our products, and take equal pride in the results we have achieved with clients. We look forward to the challenges of the future - as the acceptance of glass reinforced products and the application of plastics to engineering continues through industry' government and local body organisations alike.

## Design Engineering

Maskell have built their reputation on the supply of professionally engineered equipment. We design, build and erect to suit a client's performance specification. Our engineers utilise design software for many applications including pressure vessel, stack and tank design, seismic review and wind loading analysis. We also access leading world experts in composites to ensure that each project receives the most economical and efficient design possible.



## Maskell Plant

The Maskell production floor has been designed for optimum manufacturing efficiency, quality assurance and flexibility. It is our policy to constantly upgrade and replace production equipment. Plant installation includes the equipment required to produce filament wound or contact moulded fibreglass pipe and tanks, and reinforcing of PVC or other thermoplastic pipe, vessels and tanks. In addition, Maskell have a second manufacturing plant in Melbourne to provide region capability.



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## Key Personnel ...The People behind Maskell

Maskell's experienced management also has extensive technical qualifications. This blend of business and technical expertise binds together a facility dedicated to design, testing, manufacture and installation of a wide variety of specialised industrial products. All Maskell senior management have international experience in engineering and plastics which benefits all client projects.



**Managing Director David Craig** graduated from Auckland University in Mechanical Engineering and completed post graduate work at McGill University, Montreal. David established Maskell in its present form in 1968 and has over 30 years experience in the plastics and fibreglass industry.



**General Manager Don Craig** graduated from Auckland University in Mechanical Engineering and has worked with Maskell since 1988. Don has a strong background in design and project management, and site supervision in multi-million dollar projects with over fifteen years experience in the industry.



**Engineer Tony Davis** completed a Masters Degree from Auckland in Mechanical Engineering, specialising in composite materials, and has worked in this field for over 10 years. Tony also has specialist expertise in computational analysis of fibreglass structures.



**Accountant Bryan Wentworth** graduated as a Chartered Accountant from Auckland University of Technology in 1972. As well as his accounting knowledge, he has gained experience in transport, hydraulics and telecommunications industries. Bryan joined Maskell Productions Ltd as their accountant in 1992 and since then has also taken the role of Purchasing and Supply Manager for the business.

## Quality Assurance



ISO 9001

We are totally committed to international quality standards and technology developments. This means Maskell is always capable of supplying New Zealand and world markets with products incorporating the industry's latest technological developments. The companies in-house quality assurance system and QA laboratory have been certified to ISO 9001.

## Project Capabilities

The specific engineering problems Maskell have dealt with often involve corrosive situations with fibreglass offering the most cost effective solution. However, fibreglass is by no means Maskell's only capability. When projects call for traditional materials, the company is totally equipped to meet the requirements.

## Water and Water Treatment

Fibreglass pipe is used extensively in water and wastewater treatment plants and reticulation systems for its corrosion resistance. Its high strength to weight, ease of fabrication and support, and excellent flow characteristics allow low cost upgrading of existing plants and maximum economy on new installations.



## Pulp and Paper Industry

Fibreglass Reinforced Plastics play a major role in handling the highly corrosive materials used in the preparation and handling of bleaching materials and the bleaching of pulp. Use in other services has expanded from this. FRP is widely used in air cleaning equipment in pulp processing. These systems offer lower first cost, improved corrosion resistance and ease of installation.



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## Primary Food Processing Industries



Factories are all extensive users of corrosion resistant equipment provided by Maskell. These include:

- Flumes for flow measurement.
- Wastewater piping systems.
- Tanks for hot water storage.
- Complete odour control systems for rendering plants small and large.
- Effluent lines, clean in place chemical lines and other pipelines for corrosive fluids.



## Fertiliser Industries



Acidulation of phosphate rock in the Fertiliser Industry produces an extremely corrosive gas stream. Fibreglass piping, ducting, fans and stacks provide the ideal solution in these extreme circumstances. In this industry, as in many others, the Government's air emission policies come into sharp focus. Maskell Fume Scrubbers solve the problems - often exceeding the legislative requirements.



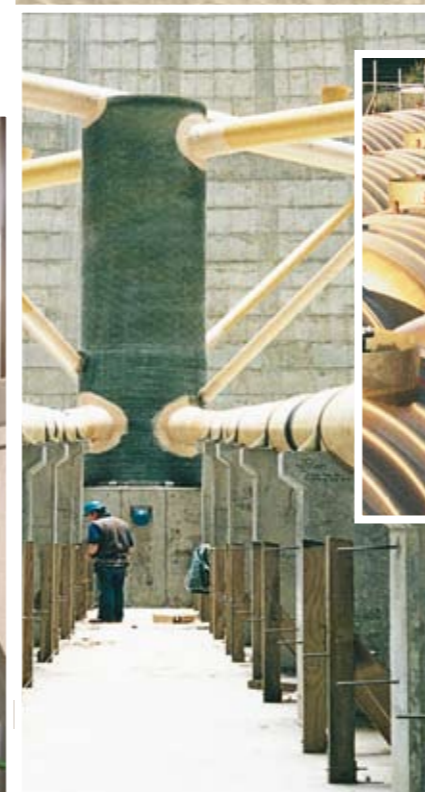
## Power Generation Industry

The corrosion resistance of fibreglass has resulted in extensive use in geothermal, hydro-electric and gas power stations. Saline cooling water and wet gas streams containing hydrogen sulphide at temperatures up to 130°C are corrosive to many materials but GRP offers longevity and strength in these applications. Subsea cooling water intakes and outfall pipelines and diffusers are also manufactured from GRP which offers longevity in the salt water environment. "Maskell have completed circulating and cooling water pipe projects as far afield as Kenya and in diameters ranging from DN100-DN2800."



## Petro-Chemical/Petroleum Industry

"Fibreglass products are used in the petro-chemical industry from the refining process through to the retail fuel sector. In refineries GRP find uses for fire water mains, process and cooling water piping and odour control equipment. Subsea crude oil pipelines use GRP in providing insulation jackets to protect pipeline anodes. In the retail fuel industry Maskell manufacture fibreglass underground fuel storage tanks for the containment of automotive and aviation fuels, diesel and oil. These tanks have been proven through continuous service for over 30 years in the United States, preventing the environmental problems associated with leakages of fuel from corroded steel tanks."



## Metalurgical Industries



Maskell has played a major role in supplying equipment for a spectrum of applications within New Zealand's steel and metallurgical industries. These include pickling, tank sand ventilation systems for paint pre-treatment and plating operations, chemical storage tanks and lining of dipping tanks.



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## International Associations

While Maskell Productions has always had full design and engineering capabilities, we have also recognised the benefits of using the international experience of other companies and have licence and/or technology agreements with many of the world's leaders in the plastics field.

**1. AMIANTIT/FLOWTITE.** Maskell are New Zealand and South Pacific distributors for the Flowtite range of fibreglass (FRP) pipe systems, ranging from DN802 to DN4000 and pressures up to PN40. Amiantit are the largest manufacturer of fibreglass pipe systems in the world with over 30 manufacturing plants.

**2. CONTAINMENT SOLUTIONS INC. – U.S.A.** Maskell has an exclusive licence with Containment Solutions Inc. formerly Owens Corning Fibreglass, for the manufacture of underground storage tanks, in New Zealand and Australia. Containment Solutions Inc. is the largest fibreglass tank manufacturer in the world. Their evaluation of our company and its facilities and quality assurance was extensive before signing a licence with us.

**3. FIBREGLASS STRUCTURES INC – USA.** Maskell employ the consulting services of FSI for design expertise by this company in the field of fibreglass dome tank covers, and recently worked together on the supply of 53 metre diameter self supporting covers for the Auckland sewage treatment plant.

**4. JAEGER PRODUCTS INC – USA.** Jaegar supply a complete range of air pollution scrubbing packing and tower internals in a wide range of materials. Jaegar Tri-packs offer high scrubbing efficiency with reduced head loss.



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