

Design Develop Prototype Manufacture



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The logo consists of a horizontal line with four green circles of increasing size from left to right, ending in a larger green circle with a white 'C' inside, all enclosed in a thin grey border.
B&C PLASTICS
INNOVATION • MANUFACTURE • SUSTAINABILITY

B&C Plastics provide leading injection plastic moulding solutions.

At B&C Plastics, we work with some of Australia's most respected brands to design, develop and manufacture premium plastic components. We also do things a little differently. With a real focus on customer service we ensure that we are with you every step of the way and manufacture robust products that always get the job done.

Solutions for the mining industry

Whether you require us to manufacture components from existing moulds or generate new designs and prototypes, we can work directly with you to develop the solution. We can also come to you and ensure that no matter your location, whether in regional Queensland, Western Australia or otherwise, we will ensure that you have support and guidance through the entire experience.



Coal Seam Gas Solutions

QGC has solved a technical problem in Queensland coal seam gas extraction that not only saved hundreds of thousands of dollars but improved safety and resulted in a global innovation and technology award.

Background

It is necessary to estimate and model how productive a coal seam will be in order to value a CSG company's assets and the total amounts of coal seam gas in reserve. Traditionally a core sample is taken and studies are carried out on the coal to work out how productive the coal seam is likely to be.

This means lots of testing and lots of holes being drilled and plugged with cement to meet regulatory requirements for abandonment of wells that are no longer required.



The Solution

The solution was to take one of these core holes, re-enter it and place vibrating wire piezometers attached to capillary string coil tubing. Gauges were positioned alongside selected reservoir intervals. These holes measure between 350~900 metres deep. Up to 8 gauges are required to be set at varying depths.

The gauges need to be isolated from each other in order to be able to compare the readings at different depths. The main problem that presented itself was that the cables were 'bunching' and providing the opportunity to introduce micro annulars which could lead to communication between each gauge and therefore, introduce pressure and temperature errors between these respective zones.

A cable spacer was needed to allow the cement grout to make a perfect seal around the hole, thereby isolating each zone needing to be monitored.

Gerard Norton, an engineer at QGC (Queensland Gas Company) searched for a company that was willing to take on the challenge of designing and manufacturing a product that could solve this problem. It wasn't as simple as sending a brief and getting a product back. After much discussion B&C Plastics were appointed and they designed and created the cable spacer using their 5 step manufacturing process.

The Result

The result was a product that enabled the installation of the gauges and cabling using a 2 part piece that clipped together rather than the 11 parts that had previously been used. This reduced the install time from approx 15 mins to around 2 mins and reduced a day and a half process to around 4 or 5 hours.

According to Gerard "It used to be a very time consuming process. We now estimate to be saving more than \$300,000 per annum. This is a combination of reduced installation time and a reduction in the actual product cost. Creating parts with plastic injection moulding is a very cost effect process."

"B&C Plastics were the right partners for this project, the owners of B&C Plastics (Royston and Bob) are good blokes, extremely professional and have a 'can do' attitude. As the mould designer Bob produced the components with the latest computer aided design. This allowed the concepts to be shown at meetings as 3D models which ultimately led to the funding for the project to be approved. I was involved at every step of the manufacturing process directly with the owners of B&C."



Building & construction

We tailor-make robust, environmentally sustainable and innovative plastic injection moulded products for the building and construction industry.

We work with you to design your unique injection moulds. The B&C Plastics team assist in developing the design, choosing the right polymer and creating the product you need.

We can develop new products or utilise “off the shelf” designs to create injection moulded components for a wide range of applications including:

- Termite barriers
- PVC plumbing fittings (waste/rain water)
- Rio bar caps
- PVC conduits
- Spigots
- Protection caps and covers
- Spacing blocks and brackets, and
- Heavy duty light housings

Electronic housing

We design and manufacture high quality electronic housing units that focus on aesthetics, durability and improving the function of your product.

We understand the importance of having well designed electrical components in terms of overall build quality, aesthetics and performance.

Small scale operators

We have a diverse range of clients ranging from leading international mining organisations right through to small scale start-ups and entrepreneurs.

Using our five stage B&C Process, we work with smaller scale operators who aren't familiar with the manufacturing process to give them the support they need to get their product manufactured and onto store shelves.



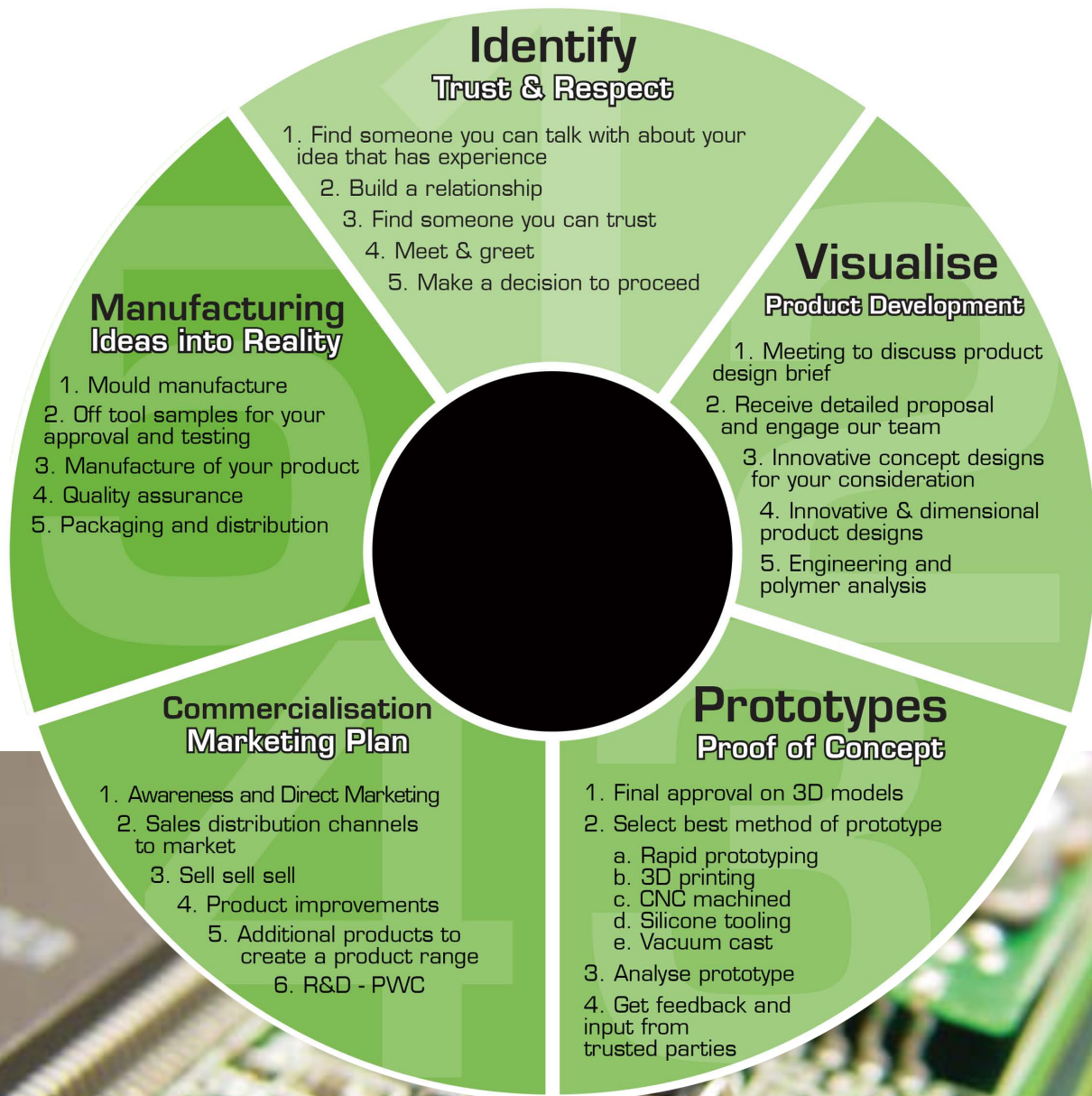
The B&C five stage development process.

As part of the B&C experience, we cater for all of your injection plastic moulding needs. We are a contract manufacturer and specialise in the design, manufacture and decoration of plastic moulds and products.

We offer an extensive range of ISO9001 certified plastic injection services using the most advanced machines on the market to design and develop components of the highest standard.

To keep things simple, all of our available services are grouped under our unique five stage B&C process (see next page), with a full range of options available within each.





Call one of our experienced team members to start your process today! +61 07 3208 0555

The B&C experience.

Based in Brisbane Queensland, B&C Plastics is one of Australia's most trusted injection plastic moulding specialists. With decades of experience, we have one of the most respected teams in the country and are well versed in all stages of plastics development.

At B&C Plastics, we also like to do things a little differently.

Even though we are a contract manufacturer, we have total focus on customer service. We are large enough to utilise industry leading technology but small enough to be responsive to all of our clients' needs.

We also like to keep things simple.

We have developed the B&C Process, a five stage development cycle to ensure that our clients are fully up to date and well informed at all stages of production.

We are a member of the Queensland Tooling Network and pride ourselves on providing sustainable injection moulding options for our clients with a full range of quality control systems based on ISO9001. We are also working towards ISO14001 before 2013.



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