



Find out how we helped this business reduce manufacturing costs by 65%

Micro Quota manufacture food and water testing equipment which allows the user to test for the presence of bacteria before product is sold for consumption.

Before coming to see the ES Plastics team Micro Quota manufactured their testing products from PET-G jars and PE caps, bases and other components. The process was slow but at an adequate pace for the quantity required for the NZ and AU markets.

Given the growing popularity of the product in New Zealand and Australia, Micro Quota began preparing to sell their product on a global scale. To make entering the global market worthwhile, Micro Quota needed to find ways to increase production rates and decrease the cost per unit of production. They also wanted to keep manufacturing the product range in New Zealand.

The ES Plastics team worked with Micro Quota to come up with a solution. The end result was a completely redesigned product range which still looked and fitted the same as the original but offered dramatically reduced production costs.

Here's a snapshot of some of the changes which we were able to put in place:

- ⦿ The existing PET-G, extrusion Blow Mould product was replaced with a PET stretch Blow Mould.
- ⦿ The base and cap were redesigned for snap-fit and quicker thread attachment.
- ⦿ We also used multi-cavity tooling (which meant many products could be made from one tool in each round of production).
- ⦿ Redesigned the product so that it looked and worked the same as the original but became far less costly and much quicker to make.

The changes that have been made now allow Micro Quota to economically enter the global market while keeping their product NZ made. The manufacturing cost per unit has dropped to only 35% of the original and production rates are 100 times faster now a new product version has been made.

QUICK FACTS

Business Name:

Micro Quota

What they do:

Manufacture and sell equipment to test for the presence of harmful bacteria in food and water.

What they wanted:

To reduce production costs, increase production rates to meet global demand and keep manufacture in NZ.

What we did:

Redesigned the product so that it looked and worked the same as the original but became far less costly and much quicker to make.



After changing the way Micro Quota's product was made, per-unit product costs dropped by 65%.