

# CUSTOMER PROFILE

## Our ideal customer

Is a medium to large industrial enterprise with an innovative approach to development. Our customers are often export driven. They typically demand:

- High equipment availability
- Equipment customization
- Import Replacement
- Productivity Improvement

## Key Customers Include

- Axis Intermodal
- Harker Underground Construction
- Holcim NZ
- NZ Steel
- Paper Coaters
- Typhoon Glasshouse Equipment
- Sandvik NZ



# PRINCIPAL PROFILE

Bert Fourie is the owner of Belcher Industries. He is an accomplished engineer, specialising in Design and Build projects for the past 20 years. Bert has been responsible for several leading edge designs, including:



- Micro Tunnelling Equipment
- Tracked Elevated Work Platforms
- Plant Automation Equipment
- Steel Plant Equipment
- Underground Hard Rock Equipment
- Aggregate Plant Equipment
- Water Treatment Systems

Bert aims for innovative yet practical designs, leading to a functional and aesthetically pleasing outcome. He always strives to exceed client expectations.

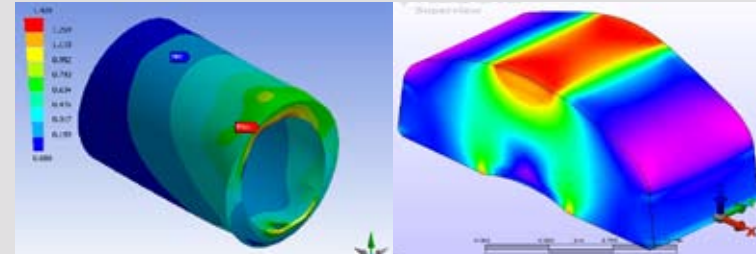
Bert holds a Masters Degree in Mechanical Engineering as well as an MBA. He is a Chartered Professional Engineer and a member of the Institute of Professional Engineers of New Zealand.

## Belcher Industries Ltd.

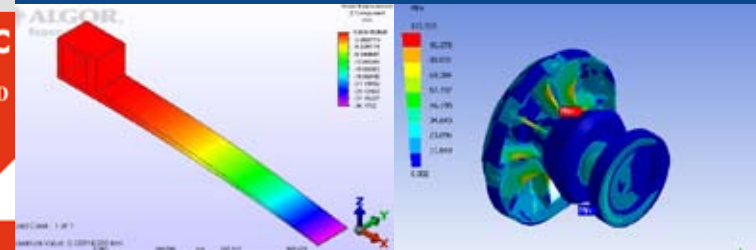
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# TURNKEY DESIGN AND BUILD



[www.belcher.co.nz](http://www.belcher.co.nz)

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# DESIGN SERVICES

# MANUFACTURING FACILITIES

# PROJECT SHOWCASE

**Mechanical**

**Structural**

**Electrical**

**Our facilities and skilled staff allow us to complete the entire project in-house - from inception to commissioning.**

## Micro Tunneling System

- Performed longest drive to date in New Zealand (600m)
- 160kw 1000V Hydraulic Drive
- 2.85m Outside Diameter



## Glasshouse Crop Mulcher

- Most powerful mulcher of its kind in the world - 210kw
- Feed rate: 100m/min
- Modular track based system

## Coil Packing Skids

- Breakthrough in packing skid safety
- Incorporates safety platforms
- Pneumatic operation
- 30t Coil capacity
- Exported to Thailand

## Our Turnkey Approach

1. Customer Brief
2. Concept Design
3. Design Review
4. Detailed Design
5. Build
6. Commission
7. Maintenance Support

## 3D CAD Solid Modelling

State of the art software is used to produce true-to-life models, assisting customers to visualise the design outcome. This facilitates early buy-in by all involved.

## Finite Element Analysis

Sophisticated stress analysis & fatigue design, ensuring long service life and optimised design.

## Fabrication

17500 m<sup>2</sup> Workshop - 3 Overhead Cranes.  
Qualified Welders (NZ 4711) using modern welding equipment.

## Machining

Turning and Milling.  
Hydraulic Cylinder Honing.

## Hydraulics

Hydraulic cylinder manufacture and repair.  
Oil flow and Pressure testing up to 600 l/min. at 450 bar.  
Oil filtering system for workshop and onsite filtering.  
Eaton hydraulic components.  
Duffield hoses and fittings.

## Site Installation

Onsite installation and commissioning.

## Maintenance support

24/7 onsite repair service - 4 support vehicles.  
Workshop repairs and rebuilds.

