

Waterjet Cutting

Service Brochure



Examples of our work

Here are some of the things we've developed for customers. Some of our work is confidential so we can't share all of our best work, but here is a range of materials, thicknesses and applications of our work.





How waterjet cutting works

CNC MOTION CONTROL SYSTEM

A high-precision motion control system accurately guides the movement of the multi-axis cutting head along a predetermined cutting path.

HIGH PRESSURE PUMP

The waterjet uses a high-pressure water pump that creates a pressure level of approximately 55,000 psi to make the cutting stream.

ABRASIVE DELIVERY

A hopper delivers crushed garnet powder, the abrasive material, through piping to the cutting head. A predetermined amount of abrasive is fed to the cutting head.

CUTTING HEAD AND NOZZLE

At the cutting head, the pressurised water flows through a small hole to create a very fine high-speed jet of water. The abrasive is fed into the water, the water accelerating the abrasive through the nozzle to do the cutting.

CATCHER TANK

The energy of the jet is dissipated in a water-filled catcher tank below.



Materials That Can Be Cut

Materials		✓ Yes	× No
Metals	Aluminium, Stainless, Corten, Mild Steel, Cooper, and Brass	✓	-
Plastics	Fibre-reinforced plastic - eg carbon-fibre	✓	-
Glass		✓	× Toughed Glass × Safety Glass × Windscreens
Stone	Granite Synthetic stone Concrete	✓	× Diamond
Tiles / Ceramics	Floor tiles Wall tiles Glass-coated tiles	✓	-
Rubber	Gaskets	✓	× Foam



About Scott's Steelworkz

Scott's Steelworkz offers waterjet cutting, unique art, sheet metal fabrication, welding and engineering maintenance services in the Franklin Region. We are located in Waiuku and service the South Auckland region.

Our equipment includes a Waterjet Cutter, Press Brake Folder, Punch Shear, Band Saw, Double Pulse Ali MIG Welder, TIG Welders, Hand Roller and forming machines.

Contact us for further enquiries

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Didn't see what you like? Contact us today to learn more about our Waterjet Cutting services and how we can assist you with your next project.

REQUEST A QUOTE

SCOTT'S STEELWORKZ LTD.

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