

BECOME A WORLD LEADER IN YOUR INDUSTRY

Business efficiency, shorter production cycles, quality, flexibility, health and safety - these are just some of the factors that drive today's high paced marketplaces. Many companies battle to keep up with the global players, but with a world-class automation partner at your side, you can leverage technology to stay internationally competitive in your field.

CNC Design is New Zealand's leading provider of cutting-edge automation solutions. Whether you're a machine builder or an end user, we help you become a global leader in your industry by bringing you the world's best technology and backing it up with comprehensive expertise and support.

“CNC helped us by unlocking a lot of potential from existing equipment, allowing us to be the first port in the world to twin lift containers from the decks of ships with mid-lock fittings. A true competitive advantage.”

John Miller, Operations Engineer at Ports of Auckland

TECHNOLOGY + EXPERTISE + SUPPORT

Technology Partners: **SIEMENS** *STÄUBLI*

ER STRY



TECH



Technology Partners: **SIEMENS** *STÄUBLI*

NOLOGY

Empowering your business with the world's best automation equipment

CNC brings you the very best automation technology available worldwide - technology designed to empower you by optimising production processes and increasing productivity. Working with Siemens and Stäubli equipment, we offer controllers, drives, sensors and robotics that can be provided as new turnkey systems or integrated with your existing machinery.

Both Siemens and Stäubli are global leaders in their fields, backed by proven performance, reliable support networks and continuous investment in research and development. Holding the majority share of the world market, Germany's Siemens is the largest automation and drive systems provider. Swiss-based Stäubli produces top end robots including the world's finest robotics for hygienic environments.

“CNC's technology (both hardware and software) is so good compared to anything else. We've found their Siemens products to be extremely reliable and user-friendly. They're far superior to other providers in the marketplace.”

Glenn Morgan, Engineering and Production Manager at Patience & Nicholson





Technology Partners: **SIEMENS** *STÄUBLI*

PERTISE

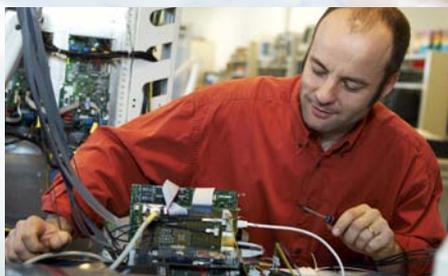
Knowledge and application expertise that give you a competitive advantage

Having good equipment is one thing, but having the expertise to implement the latest technologies, speed up production times and reduce downtime - that's where international competitiveness comes in. When you choose to work with CNC, you choose to work with highly qualified and experienced engineers. From programming and design through to service and training, we're here to help you compete with the best in the world.

In New Zealand and internationally, we have automated machines and processes across a wide range of industries. Our in-depth know-how covers key sectors such as food and beverage, forestry, energy, logistics and manufacturing, as well as many specialised niche segments.

“CNC technology and expertise help us build world-leading machines for our clients, which ultimately translates into export sales. That speaks for itself.”

Rob Craigie, Business Development Manager at Production Machinery Limited



SUPPO

Service and support when and where you need it

At CNC, we are committed to helping you compete with the best in the world. That's why our service and support specialists provide a reliable supply of spare parts, solutions to problems, and expert advice when you need it. We also train you, so you can take control and grow your business.

With a successful track record that spans more than 20 years, CNC is at the forefront of international technology and well placed to help you gain a competitive advantage. We have strong relationships with specialists at Siemens and Stäubli, and can call on their global support network to ensure cost-effective and timely service.

“All around, CNC provides a good turnkey package with world-class service and support. They've performed to target and they have met the schedule. In other words: they're delivering exactly what we require.”

Steve Honey, Project Manager at Production Machinery Limited



RT





Production machines
Motion controllers



Machine tools
CNC



Factory automation
PLCs



Drives
Variable speed drives



Drives
Servo drives



Robots
Standard and specialised robots

TECHNOLOGY PARTNERS

Working with the best in the world

SIEMENS

Why we work with Siemens

Siemens is the world's leading automation, drive systems and motion control provider, holding the majority share of the world market. Having worked with Siemens for over 20 years, we believe in the quality and reliability of their products and have developed strong relationships with key Siemens developers and engineers in Germany.

Why you should choose Siemens

As a leading global player, Siemens offers reliable, top quality products engineered in Germany. They invest 4 billion Euro in research and development every year and employ 360,000 people in more than 100 offices worldwide - so you can be assured that you get the latest technologies from a trusted supply source.

Not only does Siemens offer a wide range of products based on their 150 years of experience, the scale of their operation allows them to back this up with worldwide support and service. Even after product obsolescence, you can rely on a further 10 years of support.

STÄUBLI

Why we work with Stäubli

The Swiss company Stäubli produces superbly engineered robots, including specific versions designed for humid and sterile environments. They are ideally suited to New Zealand's leading industries including meat processing, food handling, plastics, forestry, pharmaceuticals and healthcare.

Stäubli products are fast, easy to install, easy to use, clean - they are completely sealed and resistant to washdown chemicals.

Why you should choose Stäubli

Stäubli has been producing high quality robotics for over 30 years - so when you buy a Stäubli robot, you get a reputable and reliable product, backed by extensive experience, continuous research and development, and excellent service.

Stäubli robots are accurate and have an extremely long lifespan, which reduces lifecycle costs. The standard arm is fully enclosed with internal wiring and pneumatic services running to the wrist. The special humid environment version is fully washable. Designed with hygiene in mind, it is better suited to sterile environments than the automotive robots typically found in the market.

MACHINE BUILDERS

Empowering you to build world-leading machines

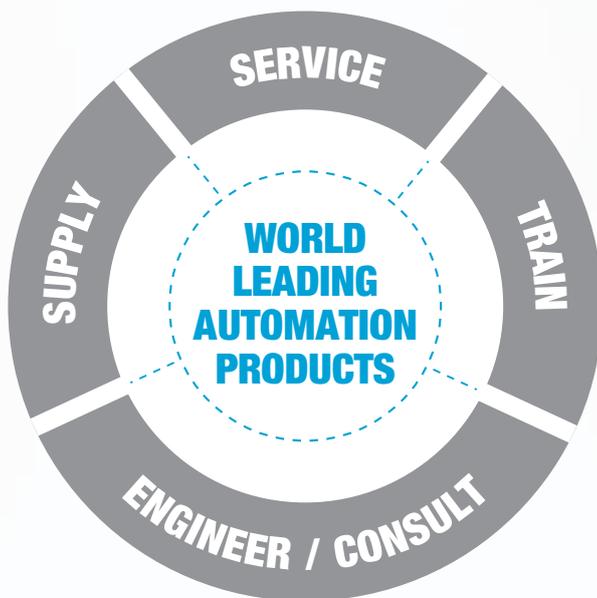
By choosing to work with CNC, you choose a reliable partner who empowers you to leverage new technologies and build better machines. We work alongside your team of experts when you need us, bringing the world's leading automation technology to life in your application.

Your international competitiveness is at the heart of what we do. Working with highly successful and reputable brands, we are up to speed with global trends and help you utilise the latest research and development outcomes.

Services

At CNC, we offer a unique skill set that combines the provision of leading technology with in-depth expertise and long-term support. Our experts are highly qualified - we know how to make new technology work for you.

Our approach is based on four key aspects of service delivery: offering outcome-focused consultation and engineering support, ensuring a reliable supply of products and spare parts, providing excellent service, and training you so you remain masters of your own destiny.



We are highly experienced in designing and programming control and drive systems to meet your requirements. Our offer can include consultation, concept design, part selection, electrical drawings, cabinet layouts, customised software, installation, commissioning, upgrading and support.

Benefits

Having worked with OEM's in New Zealand for over 20 years, we understand the issues and challenges machine builders are likely to face. Our long track record of success has provided us with invaluable experience in solving problems.

We can help you manufacture more accurate, more flexible and more efficient machines for your clients. Our specialty is to find new, innovative and effective production methods. This expertise allows us to help you build machines that reduce servicing and repair needs - resulting in less downtime - and increase production speeds and productivity - enhancing overall efficiency.

No matter where in the world your equipment is operating, support is near at hand. CNC has offices in New Zealand, Australia and South East Asia and our technology partners, Siemens and Stäubli, have service networks around the globe.

Clients

We have worked with numerous machine builders over many years, among them Fisher & Paykel, South Fence Machinery, Patience & Nicholson, Scott Technology and GEA Avapac.



We empower you

“CNC has been instrumental in building stages for a number of appliance production lines over the years. They complement skills that we have in-house. Their technology and expertise help us build world-leading machines”

Rob Craigie, Business Development Manager at Production Machinery Limited



CASE STUDY:

Drill bit machines that leave holes in the competition

CLIENT: Patience & Nicholson
Industry: Manufacturing
Business: Machine builder and user
Project: Providing control systems for drill grinding machines

SIEMENS

CASE STUDY: PATIENCE & NICHOLSON

Drill bit machines that leave holes in the competition

The company

Producing 60,000 drill bits for hand tools every day, New Zealand based Patience & Nicholson is a global supplier of high quality drill components, which are sold under its own brands and those of its OEM customers. The company not only produces the drill-bits, but also builds the machines that manufacture them.



The challenge

“In our business, we need to implement new ideas and build machines from scratch,” says Glenn Morgan, Engineering and Production Manager at Patience & Nicholson. “When CNC comes in to help us with the control system of a machine, they have to analyse the requirements and invent a new production method each time. From experience I can say that they do this very well - they always come through.” For the TSX grinder, for example, CNC had to develop special algorithms that allow the machine to cut specified drill point shapes.

The TSX also meets another challenge, that of having to be highly flexible in New Zealand’s low volume market - it can grind flutes, reliefs and points all on one machine.

Why CNC?

Collaborative relationship

“We’re working very closely with CNC - with our specialists on the mechanical side and CNC’s experts handling the control systems,” explains Glenn. “It works perfectly every time. Should a problem arise, we can get on the phone to them anytime and they’ll find a solution. They communicate well with us and are very good to deal with.”

Expertise and excellent service

Glenn describes CNC as a trusted supplier that goes above and beyond the call of duty with everything they do. “We never have to worry about their products. They always do a very good job and deliver what we need. The skills and abilities of their staff are second to none.”

Quality equipment

“By using Siemens, CNC offers some of the best technology you can get,” says Glenn. “We’ve found their products to be extremely reliable and user-friendly. In fact, we’re thinking about changing most if not all of our control systems over to CNC and Siemens. They’re far superior to other providers in the marketplace.”

The result

Having worked with CNC for over 10 years, Glenn believes that the company helps businesses become more internationally competitive. “Our machines are now arguably the best in the world,” he says. “They are flexible, so we can reset them quickly to perform different tasks. They’re also very easy to handle, so our productivity has improved dramatically.”

MACHINE USERS

Enabling you to produce internationally competitive products

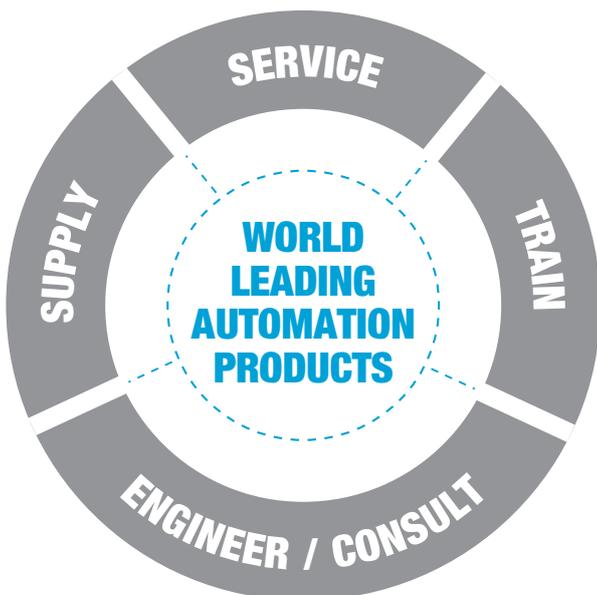
Competing on world markets means you have to be efficient and keep up with international trends and developments. CNC helps you achieve this. We offer a winning combination of world-leading, quality equipment, expertise and support - where and when you need it.

CNC is always at your side as your outsourced partner. Our experts have the technical know-how, experience and product knowledge to solve your problems. They undergo international specialist training with our supply partners Siemens and Stäubli.

Services

At CNC, we offer a unique skill set that combines the provision of leading technology with in-depth expertise and long-term support. Our experts are highly qualified - they know how to make the machines work for you.

Our approach is based on four key aspects of service delivery: offering outcome-focused consultation and engineering top quality systems, ensuring a reliable supply of products and spare parts, providing excellent service, and training you so you can maximise system performance.



We are highly experienced in designing and programming control systems - from building turnkey projects through to retrofitting, upgrading and enhancing existing machinery, and from providing field service through to offering skilled outsourcing.

Benefits

We're focused on building long-term relationships and have your business aims in mind. We begin by listening to you, by understanding your objectives and challenges. It's a true partnership, enabling you to compete with the best in the world.

We can help you streamline your production processes by combining our automation expertise with reliable Siemens and Stäubli products. Our systems are easy to integrate and use. They allow you to improve productivity, accuracy, speed and overall efficiency, and to reduce downtime, wastage, variability and costs. Automating difficult and dangerous tasks also creates a safer work environment for your staff.

Via our offices in New Zealand, Australia and South East Asia, we offer expert support in the required timeframes and ensure a dependable supply of spare parts. We build our solutions using Siemens and Stäubli equipment, because it is backed up by reliable global support.

Clients

Our machine user clients include Ports of Auckland, Chelsea Sugar, New Zealand Steel, Independent Liquor and Carter Holt Harvey. All of them are repeat customers and we have partnered with most of them for many years.



We make your business more efficient

“Our machines are now arguably the best in the world. They are flexible, so we can reset them quickly to perform different tasks. They’re also very easy to handle, so our productivity has improved dramatically.”

Glenn Morgan, Engineering and Production Manager at Patience & Nicholson



CASE STUDY:

Kiwi team develops the world's first twin container lifting system from the decks of ships with mid-lock fittings

CLIENT: Ports of Auckland
Industry: Logistics
Type: Machine user
Project: Maximising container lifting and unloading operations

CASE STUDY: PORTS OF AUCKLAND

Kiwi team develops the world's first twin container lifting system from the decks of ships with mid-lock fittings

The company

Covering two seaports, an inland port as well as road and rail links, Ports of Auckland is New Zealand's largest container port. The container terminal houses the country's biggest crane and straddle carrier fleet, which operates 24 hours a day, seven days a week. Approximately 720,000 containers are handled here each year - equating to nearly 2,000 containers per day. Most of these are 20-foot containers (60%) with the rest made up of 40-foot containers.



The challenge

With such a mass of containers coming through, Operations Engineer John Miller turned to CNC to find a solution that would allow the Ports of Auckland to unload two 20-foot containers end-on-end from the decks of ships with mid-lock fittings at the same time. "This has been tried in other parts of the world - but it has never actually been achieved," he says. "We wanted to make it work with our existing equipment, despite the fact that the container fittings didn't seem to allow twin lifting."

Why CNC?

Expert knowledge

The development process involved rigorous testing, data collection and data analysis. "These are the skills that CNC brings to the table. They apply a structured methodology to refine and optimise production processes," says John. "Their ability to take production type technologies and apply them to another industry is a real strength that sets them apart from other companies."

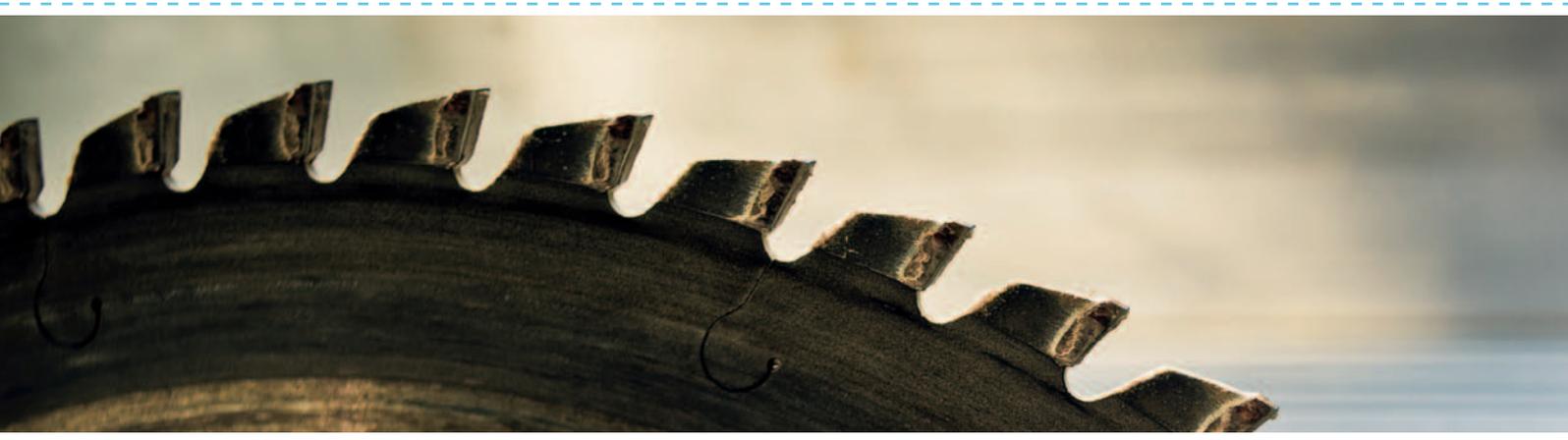
Enabling technology

CNC enabled the Ports of Auckland to optimise their existing equipment. As John puts it: "CNC provided the technical expertise and software to customise our hardware. They've successfully completed the project and we can now utilise their technology. Our workers fully buy into it as the twin lifting and its automated container unlocking system makes their work easier and safer."

The result

"The Twin Deck 40 is a significant breakthrough," says John. "We can now twin out a large proportion of the containers, which increases our productivity. We're also able to use more cranes on a ship, as the cranes' movements don't restrict each other."

John concludes: "CNC helped us unlock our equipment's potential, giving us a true competitive advantage in the marketplace. Shipping companies like to use our ports as we can service and turn their ships around quicker than other ports."



MANUFACTURING

The New Zealand manufacturing industry needs to be able to cope with very short production runs and numerous changes in machine set-up, while at the same time ensuring low costs and a fast return on investment. CNC is New Zealand's pre-eminent provider of retrofit solutions for machine tools and production machines. We offer world-leading processing equipment and technology, providing speed, accuracy and repeatability.

Fisher & Paykel
HEALTHCARE

Execut
PATIENCE & NICHOLSON INC LTD



FOOD & BEVERAGE

From dairy and meat processing through to wine and beer bottling, the food and beverage industry is extremely diverse. Specific challenges vary, but hygiene and health and safety are common concerns across the industry. We have experience in most segments, with projects ranging from upgrading machines through to building OEM systems. We offer advanced packaging solutions and our Stäubli robots are hygienic, fully washable and fast to help improve productivity and efficiency.

CarterHoltHarvey
Packaging



Fisher & Paykel
production machinery

FORESTRY

Here, the key challenges for production are speed, accuracy, reliability and waste minimisation. In other words: optimising recovery while maximising efficiency and productivity. Robust and reliable automation equipment increases output and improves accuracy and health and safety. With over 20 years of experience in the forestry industry in New Zealand, CNC offers unique solutions for machine centres in sawmills, board mills and frame and truss plants. We also provide machine upgrade services and support.



 **Ports of Auckland**

LOGISTICS

Moving products and goods efficiently and quickly - that's what logistics is all about. Providers need to get products to their destination fast and reliably, while ensuring correct deliveries and low costs. Automation is key in this industry. CNC brings together innovative Stäubli robotics and world-leading Siemens technologies. We have extensive experience in automating handling and logistics processes - reducing health and safety issues for staff, increasing reliability and speeding up loading and unloading.



ENERGY

Electricity consumers are facing increasing energy costs and pressure to reduce their carbon footprint, which demands more efficient utilisation and increased generation from renewable energy sources. At CNC, we're able to leverage world-leading Siemens technologies and know-how to provide you with efficient and reliable solutions for energy generation. Our products include controls, generators, inverters, drives, servos, cabinets, HMIs, instruments and switchgear.



Milmeq
engineering for the future

BOOST YOUR INTERNATIONAL COMPETITIVENESS

CNC brings you the world's best-in-class automation technology and expertise, so you can compete with manufacturers from the most automated countries around the globe. Whether you're a machine builder or a machine user, and whether you need a stand-alone automation solution or a fully integrated system, we can help you boost your international competitiveness.

CNC HAS THE SKILLS TO DELIVER:



Contact us to discuss your challenges, issues and requirements. We're keen to help you compete with the best. Email us at cncnz@cncdesign.co.nz or call us on 09 274 1280.

Technology Partners: **SIEMENS** *STÄUBLI*

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