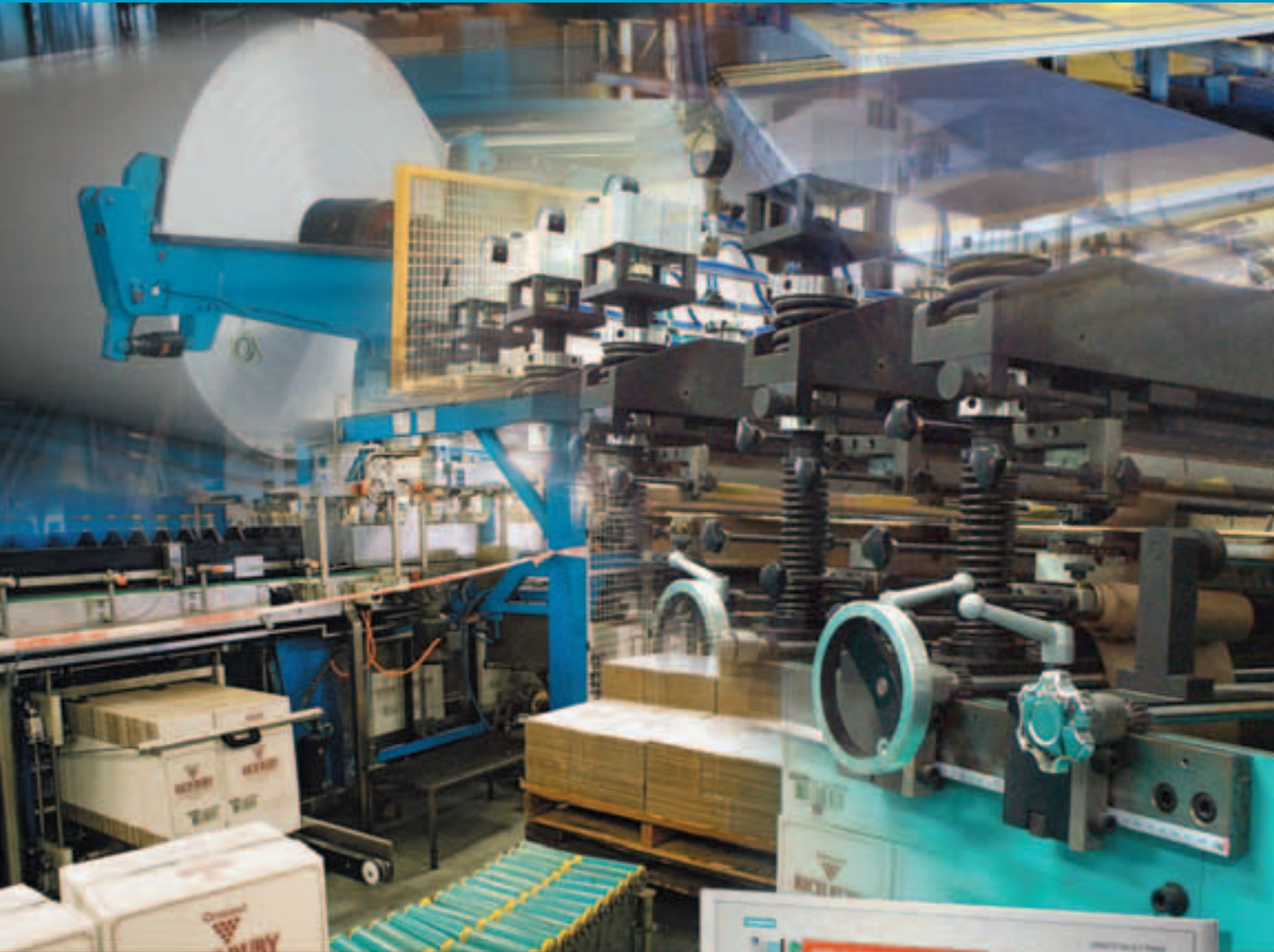


# PRODUCTION MACHINE TECHNOLOGY



Solutions to improve your productivity



**CNC**design  
Machine Automation Solutions

# Company Profile



Since 1984, CNC Design has grown to become a leader in Australasia and South East Asia in Motion Control Solutions for Production Machines.

Offering complete automation solutions to manufacturers and users of production machines, our strength is our advanced engineering and technology knowhow.

With major OEMs and many of the larger engineering companies in the region having partnered with us for new machine and retrofitting projects, we have completed more than 700 projects.

During 2004 CNC Design celebrates 20 years of commitment to our customers. Our Key partner is Siemens AG. We are their representative for Motion Control products and services in Australia, New Zealand, Indonesia, Thailand and Malaysia.

As we employ people from more than 15 countries we understand your local culture and language. We look forward to discussing ways that CNC Design can improve the productivity of your production process.

- **Motion control solutions for machine tools and production machines.**
- **Active partner of Siemens AG Automation & Drives Motion Control Division.**
- **Internationally established with a business focus in Asia, Australia and New Zealand.**
- **Turnover \$16 million.**
- **Offices in 5 countries.**
- **Staff 80 People.**

## Service Network

CNC Design is part of the Siemens worldwide service network for Motion Control Products.

### Field Service

Our local factory-trained service personnel provide on site repairs and hotline support to machinery agents, machine builders and end users.

The Siemens Repair Service Contract (RSC) covers an all costs worldwide rectification warranty against any fault arising from failure of a Siemens product.

### Spare Parts

We hold local spare parts stock. Non-stock items are quickly procured from Siemens.

### Training

CNC Design has accredited SIEMENS TRAINING CENTRES for Automation and Drives in Australia and New Zealand.

## Engineered Solutions

CNC Design offers Engineered Solutions for production machines supported by a large team of Electrical and Software Engineers in our various local offices.

### Technology Capability

Within our scope are the mechatronic disciplines required for machine automation including multi axis motion control, tension and registration control, temperature control, network systems, HMI, measuring systems, hydraulics and mechanics.

### Planning and Design

These are the most crucial stages of any project. Our project managers work closely with customers to ensure that every project benefits from the best solution with optimum timing and logistics.

## Assembly & Installation

We manufacture and deliver electrical cabinets to customers worldwide. All cabinets are fully tested and comply with relevant wiring, EMC and safety standards. Each office supports on site installation and machine wiring

### Commissioning

Includes software and drive optimisation on site which may be part of a project or charged at a daily rate.

### Documentation

All of our projects are comprehensively documented to ensure ease of machine operation and maintenance.

# Machine Builder Support



## Machine builder partnership program

CNC Design has developed a comprehensive machine builder partnership program to meet all of your needs. By combining leading mechatronic technology from Siemens, extensive automation know-how from CNC Design and your mechanical expertise in machine design we can help you make your machines the best in the world.

## Design

We work as part of your team from an early stage to ensure your machine can take full advantage of the latest concepts in automation technology and motion control, replacing shafts, clutches, brakes

and gearboxes with synchronous servo drives to make your machines simpler, faster and more accurate.

Siemens expertise in machine technology, automation, motion control and drive systems allows you to take advantage of the vast Siemens R&D investment in all areas of Mechatronics.

## World leading products and technology

- Siemens' technology, expertise, R&D, quality, reliability and unrivalled product range makes them world leaders in Automation.
- CNC Design's expertise, skills, experience, competence, close cooperation with Siemens and local knowledge will add value to your business.
- Very high brand acceptance for Siemens worldwide means it will be easier to sell your machines overseas. Siemens controls are number one in the world (one third of all PLC's sold are Siemens!) and are especially dominant in Europe and China
- Siemens adopts an open standard, no black box products. Availability of most spare parts are guaranteed for 10 years.

## Training

Training is provided at our in-house facilities. Modular courses are available in PLC programming, CNC, HMI, networks, motion control, system integration and maintenance. Special on site training can also be arranged.

## TIA (Totally Integrated Automation)

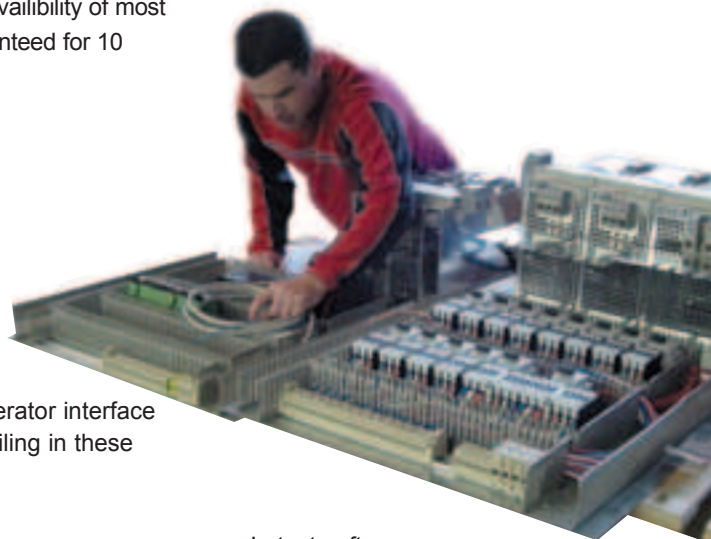
TIA means seamless integration between machine components. Difficult communication protocols between different devices is a thing of the past. TIA really is plug and play.

Controls, drives, HMI's and networks all from one manufacturer simplifies service calls. One service person for the complete machine automation system.

## Worldwide service

Siemens global service network ensures skilled personnel are close at hand if your customer needs help.

The Siemens Repair Service Contract (RSC) provides an all costs worldwide rectification warranty against any fault arising from failure of a Siemens product.



# Machine Retrofits

Retrofitting will breathe new life into your old production machine.

Our comprehensive upgrade service covering control systems, operator interface panels, drives and motors will tune up your machines which are failing in these areas by replacing them with the latest state of the art technology.



## You will achieve:

- Less downtime and breakdowns
- Significant cost savings compared with purchasing a new machine
- Up to date quality and precision
- Latest operator interface
- Latest software
- Secured spare part supply
- Local service, technical after sales support and training
- High speed Ethernet networking to other systems

# Advanced Technology f

As the foremost supplier of motion control systems in Australasia, CNC Desi

## TOTALLY INTEGRATED AUTOMATI

- Tension control • Speed control • Servo positioning control • Registration mark control • Tact synchronous control • Temperature and pressure control • Cam profile control • Synchronised feeders • High speed actions • Electronic gearboxes • Electronic line shafts • Cut on the fly

Machine Automation made simple through combining totally integrated automation products

### PACKAGING

- Bag / pouch making
- Palletizing
- Bottle packing
- Carton erecting
- Powder packing
- Bottling
- Folding / wrapping
- Labeling
- Sealing
- Strapping



### SIZING

- Cut to size board saws
- Flying saws
- Optimised saws
- Cut to length saws
- Trim saws
- Guillotines
- Laser cutters
- Water jet cutters
- Folders
- Meat slicing



### HANDLING

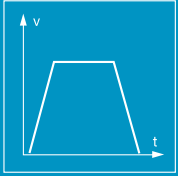
- Pick and place
- Sorters
- Robotics
- Conveyors
- Roll feeders
- Winders
- Turners
- Stackers



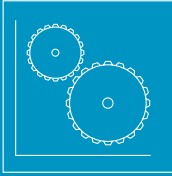
# or Production Machines

is the perfect partner to add value to your machines and production lines.

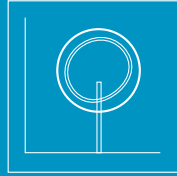
## ON + TECHNOLOGY MODULES



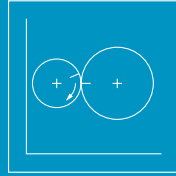
Controlled positioning



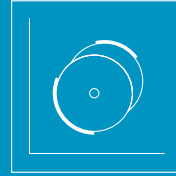
Gearbox synchronism



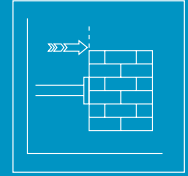
Electronic cam plate



Print mark correction using measuring input



Path or time-dependent cam sequencing



Travel to fixed stop

h ready to use advanced technology modules. • High performance • Saves time • Low risk

### MANUFACTURING

- Sawmills
- Board plants
- Furniture
- Whiteware
- Metal stamping and forming
- Sawblades
- Paper converting and finishing
- Wire and cable
- Injection moulding
- Tube mills
- Textiles



### PRINTING

- Cut sheet presses
- Web presses
- Shaft and shaftless
- Gravure
- Flexographic
- Litho
- Winders / Rewinders



### PROCESSING

- Food
- Beverage
- Wood
- Metal
- Plastic
- Paper
- Pharmaceutical
- Glass



# Products

## Totally Integrated Automation

Totally Integrated Automation (TIA) from Siemens is a range of products which are optimally adapted to each other covering the entire spectrum of industrial automation.

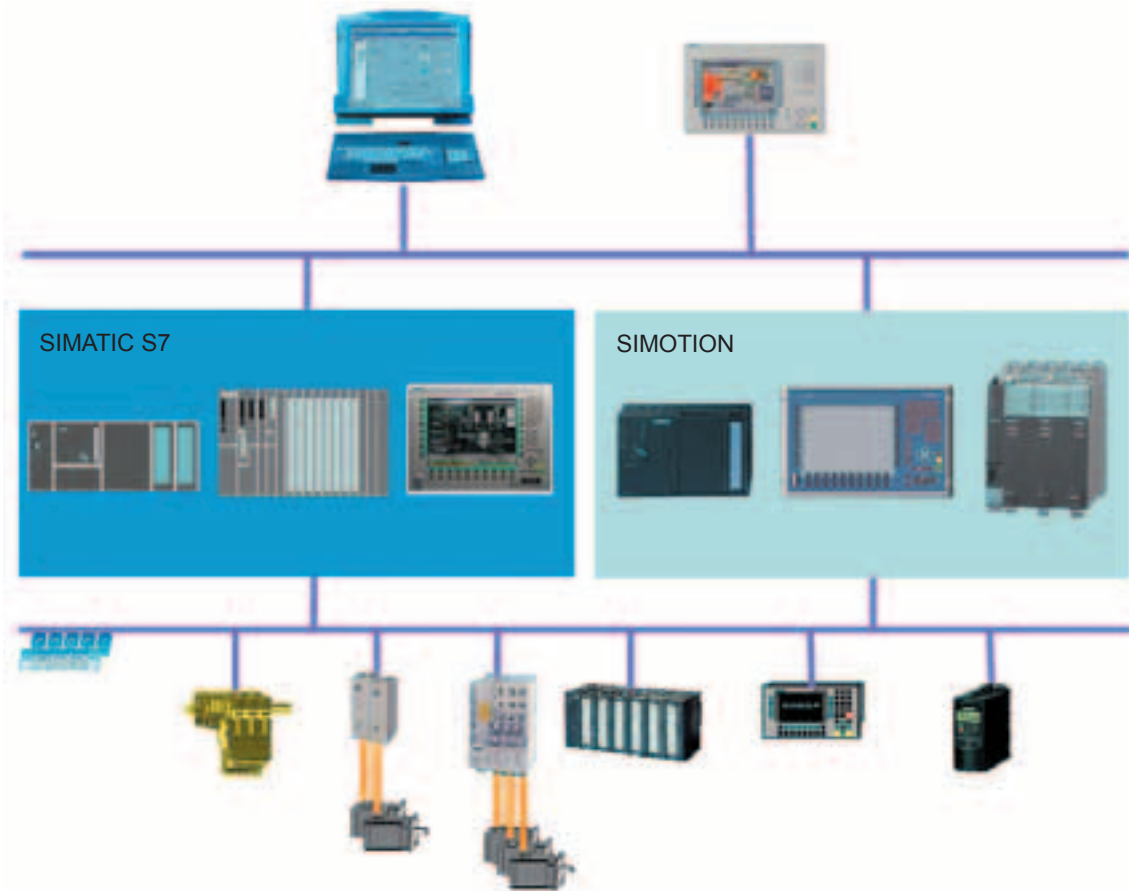
Fundamental to TIA is the uniformity of data management, configuration tools and communication networks across the whole product family.

As part of ongoing product development Siemens has now introduced the revolutionary new SIMOTION range of products that complements the existing PLC, CNC and drive based motion control systems.

**SIMOTION** is a new member of the TIA family, it therefore can be combined simply with other components from the TIA range (e.g. drives, motors, I/O modules, HMI, controls and networks) to form a complete automation system.

TIA offers a simple, efficient and flexible modular system for the implementation of automation solutions in a wide variety of applications:

- from stand alone compact machines
- right up to fully integrated production lines



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