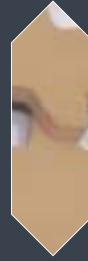
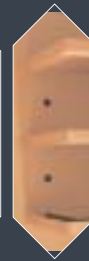
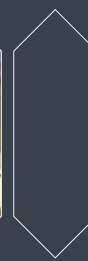
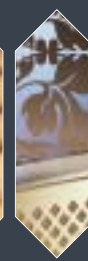
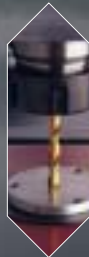


CNC ROUTERS

SHEET LOADERS

DUST EXTRACTORS

PRODUCTION SOFTWARE



COMPANY PROFILE



INTRODUCING  
TEKCEL TECHNOLOGY



NESTED BASED MANUFACTURING  
EXPLAINED



CHOOSE THE SYSTEM  
TO SUIT YOUR BUSINESS

E SERIES 1200 X 2400

E SERIES 2000 X 3000

E SERIES 1800 X 3600

V SERIES 1200 X 2400



CONTACT DETAILS



# COMPANY PROFILE

## THE COMPANY BEHIND TEKCEL



Tekcel CNC Solutions are designed and manufactured by Tommotek, a groundbreaking innovator in the field of electronic motion controllers and a market leader in the design, manufacture and distribution of world class CNC cutting technologies.

Harnessing the latest advances in mechanical engineering using state of the art electronics, Tommotek delivers a range of Tekcel CNC production systems with the 'brains and brawn' to cut your biggest workloads down to size in the fastest times imaginable.

A multi-disciplined organisation, Tommotek is also responsible for the research, development and implementation of the advanced motion control software and firmware that drives Tekcel CNC products and offers you unrivalled levels of speed, accuracy and productivity.

Tommotek's 'intelligent' approach to the manufacturing process has seen it provide CNC solutions to industries making products as diverse as signs, kitchens, furniture, giftware, wetsuits, windows, even musical instruments.

Tommotek complements its core business activities with its role as Australia's Official Distributor of CADlink Technology software, which includes SignLab, ProfileLab, EngraveLab and PhotoScript products.

## A HISTORY OF INNOVATION

In terms of innovation, Tommotek's pedigree in the development of computerised motion control can be traced back to the early 1980s when the company began designing and building custom solutions for manufacturing in Ottawa, Canada.

Tommotek was also instrumental in the development of the PC controlled interface for the early console-based vinyl cutting machines used in the sign and graphics industry at that time. This led to its first commercial product lines, the 'Fastboard' and 'CADlink' software.

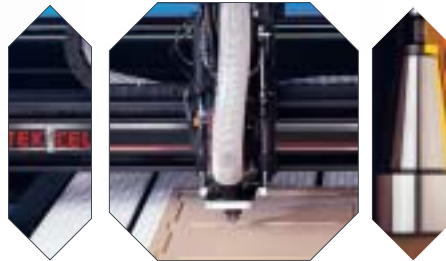
In 1988, Tommotek relocated to Australia and quickly established itself as a premier supplier of CADlink products to the signmaking industry. The first of its Tekcel CNC routing systems appeared on the market in 1992 and is still producing signs today.

Through a process of continuous innovation, driven by the desire to produce 'the best tools for the job', Tommotek now supplies a wide range of CNC solutions to the Sign, Plastics, Woodworking, and metalworking industries worldwide.

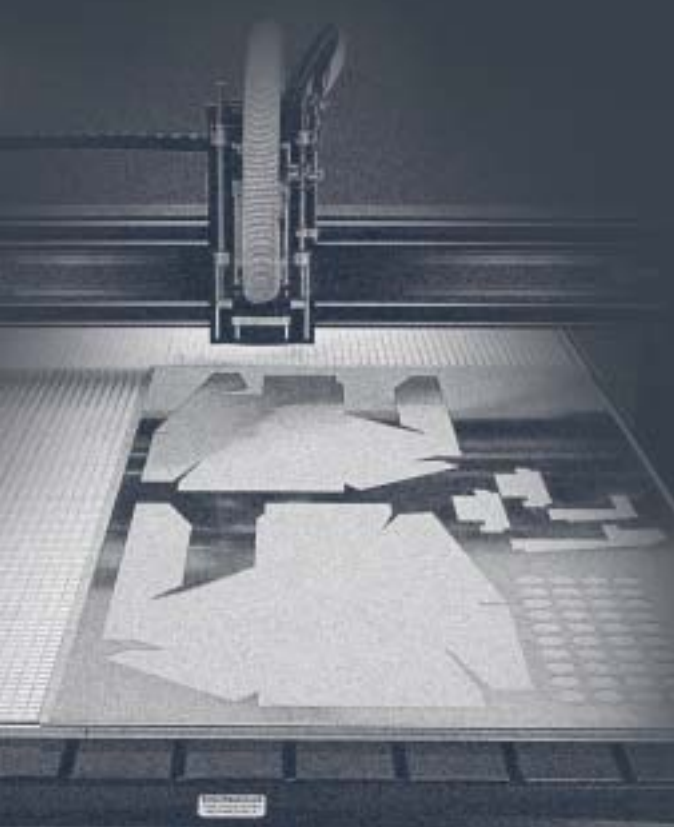
## INVESTING IN THE FUTURE

Tommotek and its Tekcel products are built on the solid foundations of a dedicated and highly motivated team of specialists. In-house resources include experts in mechanical engineering, electronics design and software programming, fully supported by an efficient and effective production, marketing and administration infrastructure.

The company also invests in the very latest software and hardware technologies to ensure that the products it manufactures are produced cost effectively and of a consistently high standard to exceed the expectations of you the customer.



# INTRODUCING TEKCEL TECHNOLOGY



Woods, metals, plastics or composites, TEKCEL routers come big enough to handle the largest sheet materials and tough enough to make light work of the heaviest production schedules. Even in the most demanding manufacturing environments, you can rely on a TEKCEL router to deliver the goods. On time. Every time.

## PERFORMANCE-TUNED TO DELIVER PRECISION AT SPEED

As the market leader and industry heavyweight, you'd expect a TEKCEL router to have some serious power. You won't be disappointed. Thanks to a team of 400-Watt DC servo motors, digitally synchronised to drive a performance-tuned 10hp HSD cutting spindle around the bed (table) with unerring precision, the flagship E Series will sail through your job sheets at speeds up to 400mm per second.

## UNCOMPROMISING QUALITY AT NO EXTRA COST

The use of 'state of the art' technology is the hallmark of a TEKCEL router. In place of the inferior belt or rack and pinion drive systems often seen on lesser machines, all TEKCEL routers feature precision engineered, re-circulating ball leadscrews on every axis. Universally regarded as a far superior power train, TEKCEL leadscrews ensure the highest degree of cutting accuracy and virtually eliminate the potential for drive failure over the lifetime of the machine.

## THE INTELLIGENCE TO INTERPRET THE NEEDS OF YOUR BUSINESS

In fact, wherever you look on a TEKCEL router, you'll see the same careful attention to detail and desire for technical perfection repeated again and again. It's present in the advanced

motion control systems that intelligently interpret the needs of your business into high speed manufacturing activity. It's just as apparent in the optional Auto Tool Change feature that reduces complex, multi-tool cutting down to a one touch, 'fire and forget' operation.

## DESIGNED TO BE EASY TO USE AND EVEN EASIER TO LIVE WITH

TEKCEL routers are designed with the operator in mind. You'll find them easy to use and even easier to live with. A simple joystick control panel provides a friendly interface between you and the equally intuitive digital operating system that controls every move the router makes. Spend some time with these feature-rich manufacturing systems and you'll quickly realise that a TEKCEL router will do two fundamental things for your business...

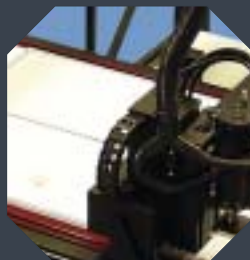


[Return to Index](#)

[Next](#)

[Back](#)

# NESTED BASED MANUFACTURING EXPLAINED



Workcel describes the modular approach to nested based manufacturing (NBM) pioneered by Tekcel CNC solutions. It refers to the unique way in which Tekcel products integrate with one another seamlessly to maximise your productivity and material use efficiency, whilst minimising expensive operator time and overall labour costs. Put simply, a Workcel NBM Solution can reduce a labour intensive production line down to a one man operation.

#### TEKCEL CNC ROUTERS

Available in a range of industry standard sizes to complement your business needs, these versatile routers can be configured with manual, quick change and auto tool change spindles to suit your production requirements. Tekcel routers also offer an auto-nesting feature that maximises the number of parts you can make from a single sheet of material automatically.

#### TEKCEL VACUUM HOLD DOWN SYSTEMS

Tekcel provides a number of powerful, vacuum solutions for the firm and effective 'hold down' of sheet materials. Whatever it is you're cutting, you can depend on precise material hold down and that means maximum productivity with minimal waste.

#### TEKCEL AUTOMATIC SHEET LOADERS

An integral part of the Workcel concept, the option to load full size sheets of material at the touch of a button is an invaluable addition in this production environment and has to be one of the ultimate labour saving devices for high volume manufacturers and one man businesses alike.

#### TEKCEL AUTOMATIC PRODUCT OFFLOADERS

To maintain a constant workflow, Tekcel systems can be optimised to offload products for you automatically once all cutting activity is complete. This presents the operator with a steady supply of components for any secondary processing that might be required.

#### TEKCEL HIGH VELOCITY DUST EXTRACTORS

Throughout the material machining process, a high velocity dust extraction system ensures that dust and swarf particles are removed to provide you with a safe and healthy working environment.

#### TEKCEL PRODUCTION SOFTWARE

Developed in-house and constantly updated, Tekcel firmware is Open Architecture and that means you can use almost any industry standard design and fabrication program with a Tekcel system.

[Return to Index](#)

[Next](#)

[Back](#)



CHOOSE THE SYSTEM  
TO SUIT YOUR BUSINESS



## E SERIES 1200 x 2400

### Cutting Area

1340mm x 2530mm

### Maximum Cutting Speed

400mm per second

### Positioning Speed

400mm per second

### Maximum Material Thickness

140mm

### Gantry Clearance

150mm

### Z Axis Stroke

25mm

### Drive System

Servo Controlled Ballscrews

### Machine Resolution

### Ballscrew Distance Accuracy

+/- .05mm/300mm (C7)

### Power Requirements

Machine: 416V, 16A

Vacuum Hold Down: 416V, 16A

### Overall Dimensions

3507mm L x 1908mm W x 166

### Standard Features

TekMov Machine Controller and Firmware

8kW HSD Spindle

Auto Tool Change - 12 Tool Capacity

Steel Slat T Slot Table Top

7.5kW Vacuum Holddown Pump

High Velocity Dust Extractor Foot

Automatic Tool Length Sensor

Spindle Speed Controller/Reverser

ProfileLab 2-D Software

CE Certification

### E Series Options

- Coolant Atomiser
- Material Thickness Sensor
- Dust Extractor with Articulated Arm
- Barcode Reader
- Vacuum Holddown Bypass Valve
- Spindle Speed Controller/Reverser
- Table Valve Assembly
- Labyrinth Table Top
- 300mm Gantry Clearance
- Pop-up Pins

### Custom Built CNC Solutions

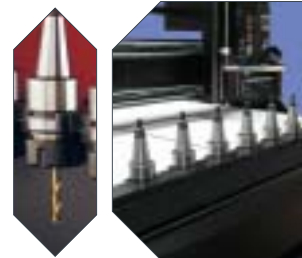
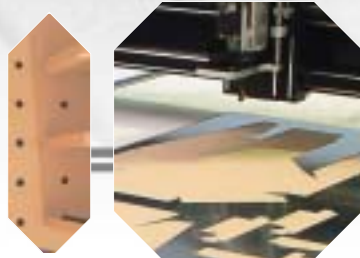
Custom built CNC solutions are available upon request.

Ask your Tekcel dealer for further information.

  
Return to Index

  
Next

  
Back



**TEKCEL**  
CNC SOLUTIONS

CHOOSE THE SYSTEM  
TO SUIT YOUR BUSINESS



## E SERIES 2000 X 3000

### Cutting Area

2075mm x 3100mm

### Maximum Cutting Speed

400mm per second

### Positioning Speed

400mm per second

### Maximum Material Thickness

140mm

### Gantry Clearance

150mm

### Z Axis Stroke

225mm

### Drive System

Servo Controlled Ballscrews

### Machine Resolution

### Ballscrew Distance Accuracy

+/- .05mm/300mm (C7)

### Power Requirements

Machine: 416V, 16A

Vacuum Hold Down: 416V, 16A

### Overall Dimensions

4107mm L x 2610mm W x 1661mm H

### Standard Features

TekMov Machine Controller and Firmware

8kW HSD Spindle

Auto Tool Change - 18 Tool Capacity

Steel Slat T Slot Table Top

7.5kW Vacuum Holddown Pump

High Velocity Dust Extractor Foot

Automatic Tool Length Sensor

Spindle Speed Controller/Reverser

ProfileLab 2-D Software

CE Certification

### E Series Options

- Coolant Atomiser
- Material Thickness Sensor
- Dust Extractor with Articulated Arm
- Barcode Reader
- Vacuum Holddown Bypass Valve
- Spindle Speed Controller/Reverser
- Table Valve Assembly
- Labyrinth Table Top
- 300mm Gantry Clearance
- Pop-up Pins

### Custom Built CNC Solutions

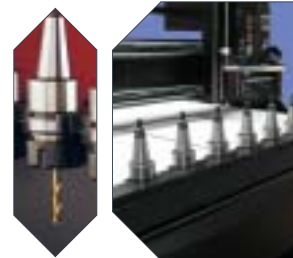
Custom built CNC solutions are available upon request.

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Return to Index

  
Next

  
Back



**TEKCEL**  
CNC SOLUTIONS

CHOOSE THE SYSTEM  
TO SUIT YOUR BUSINESS



## E SERIES 1800 X 3600

### Cutting Area

1850mm x 3650mm

### Maximum Cutting Speed

400mm per second

### Positioning Speed

400mm per second

### Maximum Material Thickness

140mm

### Gantry Clearance

150mm

### Z Axis Stroke

225mm

### Drive System

Servo Controlled Ballscrews

### Machine Resolution

### Ballscrew Distance Accuracy

+/- .05mm/300mm (C7)

### Power Requirements

Machine: 416V, 16A

Vacuum Hold Down: 416V, 16A

### Overall Dimensions

4556mm L x 2405mm W x 1661mm H

### Standard Features

TekMov Machine Controller and Firmware

8kW HSD Spindle

Auto Tool Change - 16 Tool Capacity

Steel Slat T Slot Table Top

7.5kW Vacuum Holddown Pump

High Velocity Dust Extractor Foot

Automatic Tool Length Sensor

Spindle Speed

Controller/Reverser

ProfileLab 2-D software

CE Certification

### E Series Options

- Coolant Atomiser
- Material Thickness Sensor
- Dust Extractor with Articulated Arm
- Barcode Reader
- Vacuum Holddown Bypass Valve
- Spindle Speed Controller/Reverser
- Table Valve Assembly
- Labyrinth Table Top
- 300mm Gantry Clearance
- Pop-up Pins

### Custom Built CNC Solutions

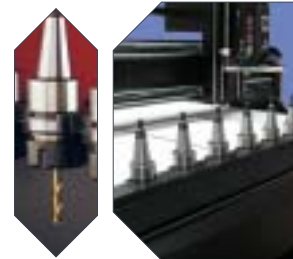
Custom built CNC solutions are available upon request.

Ask your Tekcel dealer for further information.

 Return to Index

 Next

 Back



**TEKCEL**  
CNC SOLUTIONS



## V SERIES 1200 x 2400

### Cutting Area

1340mm x 2530mm

### Maximum Cutting Speed

250mm per second

### Positioning Speed

250mm per second

### Maximum Material Thickness

115mm

### Gantry Clearance

125mm

### Z Axis Stroke

180 mm

### Drive System

Servo Controlled Ballscrews

### Machine Resolution

### Ballscrew Distance Accuracy

+/- .05mm/300mm (C7)

### Power Requirements

Machine: 416V, 16A

Vacuum Hold Down: 416V, 16A

### Overall Dimensions

3400mm L x 1700mm W x 1600mm H

### Standard Features

TekMov Machine Controller and Firmware

3hp Perske Spindle

Steel Slat T Slot Table Top

75kW Vacuum Holddown Pump

High Velocity Dust Extractor Foot

Automatic Tool Length Sensor

ProfileLab 2-D software

CE Certification

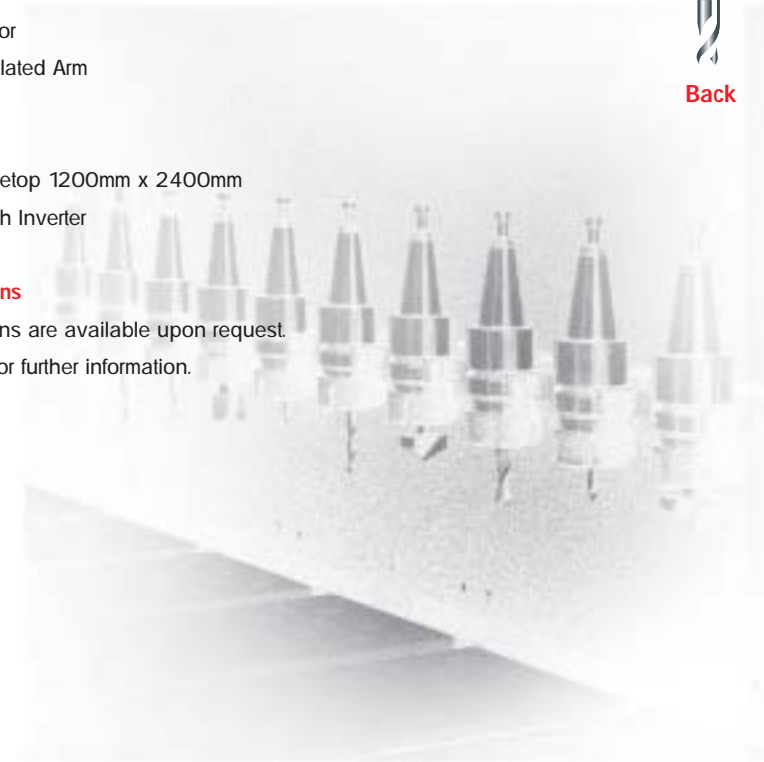
### V Series options

- Nosecone Engraving Kit
- Coolant Atomiser
- Spindle Pen
- Trailing Blade Knife
- Material Thickness Sensor
- Dust Extractor with Articulated Arm
- Barcode Reader
- Table Valve Assembly
- Extruded Aluminium Tabletop 1200mm x 2400mm
- 7hp Perske Upgrade with Inverter

### Custom Built CNC Solutions

Custom built CNC solutions are available upon request.

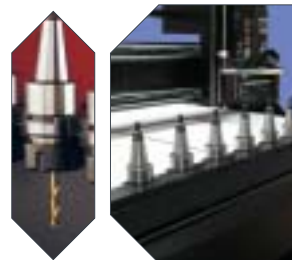
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 Return to Index

 Next

 Back





Return to Index



Back

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