



# CTS Group

Globally Renowned Quality



# CTS-Group

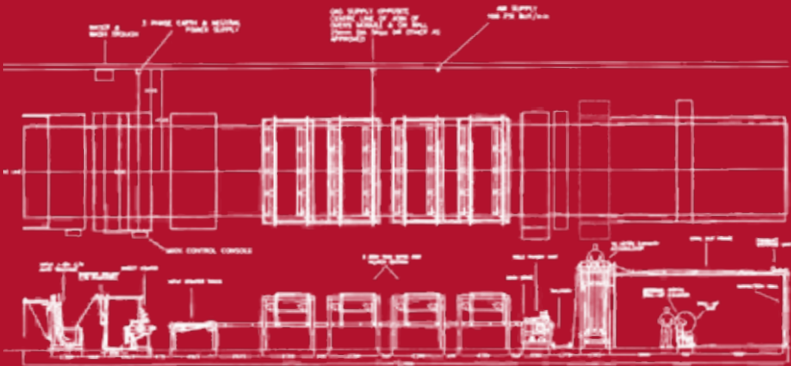


CTS Group was established over 35 years ago by the Cooper family in order to supply & service quality textile machinery and service. The company is run and operated by both first and second generations along with its enthusiastic, experienced, and skilled sales and technical team.

We are a progressively thinking company looking for the competitive edge by continually developing technical knowledge, products and procedures. These benefits are passed on to our highly valued customers. Significant investment has been made over the years in areas of production facilities, machinery, staff and computerization to sustain our position as a competitive global supplier of textile machinery.

Focusing on supplying our customers with a quality product and service at a competitive price, is the philosophy that CTS Group have built upon to achieve a significant and reputable customer clientele around the world. We have supplied plant and equipment to over 20 countries around the world with strong success in several regions including Australia and New Zealand, China, South East Asia and the Middle East. Quality is built into our plant and equipment not added on and this is why we have been so successful in these regions.

CTS Group's strong technical expertise enables us to advise our customers of best manufacturing practices, our senior management and service technicians all have hands on technical experience and production planning knowledge.



**Greater flexibility in choosing the right machinery for their ever changing markets.**

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## Semi Auto Roll

### Carpet Roll-Up Machines

Introducing "Auto Roll" a range of semi automated carpet cut to length roll-up machines.

- Input with auto count, stop, clamp and cut unit
- Auto unload ramp and take-away crane
- Automatic tapping and cutting heads
- Four blade cutting head Control console station

"For use at the end of finishing lines and capable of core placing, roll forming, side tracking, digitally counting, cutting and taping rolls of carpet all at the touch of a button."

### Specifications :

- Auto Core Feed and Storage.
- Quality Rubber Adhered Rollers.
- Auto Roll Form.
- Auto Side Traverse to avoid coning.
- Pre-Set Digital Counter with Auto Stop.
- High Efficiency Inverter Drives and PLC Programming.
- 4 Bi-Directional, Circular Cutting Blades.
- Safety Clamp.
- Auto Start Multi-Tapping Heads.
- Auto Unload and Storage Ramp.
- Crane Unload.
- Roll-up speed up to 20 meters/min.







## Carpet Tile Lines

CTS range of carpet tile lines have been designed and manufactured to meet our customers demand for quality to ensure their product meets the highest standard.

The carpet tile industry is large and expanding due to greater acceptance to the products by the market place. This is due to both new creative designs and the improved quality obtained from better backing.

CTS manufacture a range of tile lines suitable for Bitumen, Felt, TPO, PVC and PU. The most popular of the standard range are the hot oil plate unit and the premium combined line. Our premier range composes the latest technology utilizing a combination of both hot oil plates and gas fired ovens.

“CTS tile lines are among some of the most sophisticated lines available in the world.”

CTS can supply simple stand alone tile lines to the most modern in the world and can back this with the purpose built carpet Pre coat lines essential in allowing the highest quality carpet tiles to be manufactured.

- Features in line cooling and cutting of the carpet tiles to provide a semi automatic turn key line for the customer
- Supply of tile trimming available
- Auto packing



PVC Front of line



PVC line



PVC paste station



PVC End of line





## Compact

### Cut to length & roll-up machine

Introducing a "Compact" range of portable cut length roll-up machines for carpet, vinyl and other floor coverings .

- Compact is made of heavy duty steel construction for long time duration but is very portable in size and manageability.
- The machine comes fully assembled and is just a matter of plugging it into a standard single phase power supply and away you go.
- The machine allows one person to inspect, re-roll, measure, cut and wrap all warehouse orders with speed and accuracy.
- Cutting is kept easy and accurate by sing a cutting head made up of four heavy duty hardened steel rotating blades. Just lower the cutting safety guard and flick the switch. The cutter provides a smooth precise cut edge in just seconds.
- Motor drives are strong quality units providing essential reliability and performance.
- The incorporation of the latest inverter technology enables precise roller speed settings.

"The machine allows one person to inspect, re-roll, measure, cut and wrap all your warehouse orders with speed and accuracy."

- Compact comes with an electronic digital measuring counter complete with a "Preset Length Mode". Just type in the required cut length of material and Compact stops at the preset length.
- The control panel comes complete with counter screen and easy to use joy stick movement control. The emergency safety shut-off switch

and the clamping/cutting cut out switch provide all the safety you require and deserve. If the cutting safety guard is not down you just can't cut.

- The counter balanced roll start enables easy use and provides a tight roll with or without the use of centre cores.
- Compact comes complete with a foot treadle to enable easy roll-up, taping and wrapping.
- The combination of careful design, quality construction and modern technology makes the Compact Cut-Length Machine a must for all floor covering warehouses. We are sure it will become an important integral part of your companies internal structure.

### Specifications:

Size:	5.5 metres x 2.2 metres.
Weight:	1000 Kgs.
Electrical:	single 240V power supply.
Capacity:	up to 800mm diam rolls



## Elite

### Cut length roll-up machines

The CTS range of large capacity cut to length roll-up machines for the flooring industry.

CTS produces a range of Carpet Manufacturing Equipment which combined together can form a quality, low-cost compact tufted carpet producing complex. Our company has developed its range from a long association that its principals have had with the carpet manufacturing industry.

The cutting and roll-up machines manufactured by CTS can accommodate both carpet and vinyl rolls up to 4 metres wide. The machines are made of heavy steel frames for stability, large size motors and gearboxes for durability and the latest technology in control gear for ease of use and accurate measuring.

The system consists of a number of modules which can be incorporated together in differing combinations to form simple or sophisticated carpet handling units.

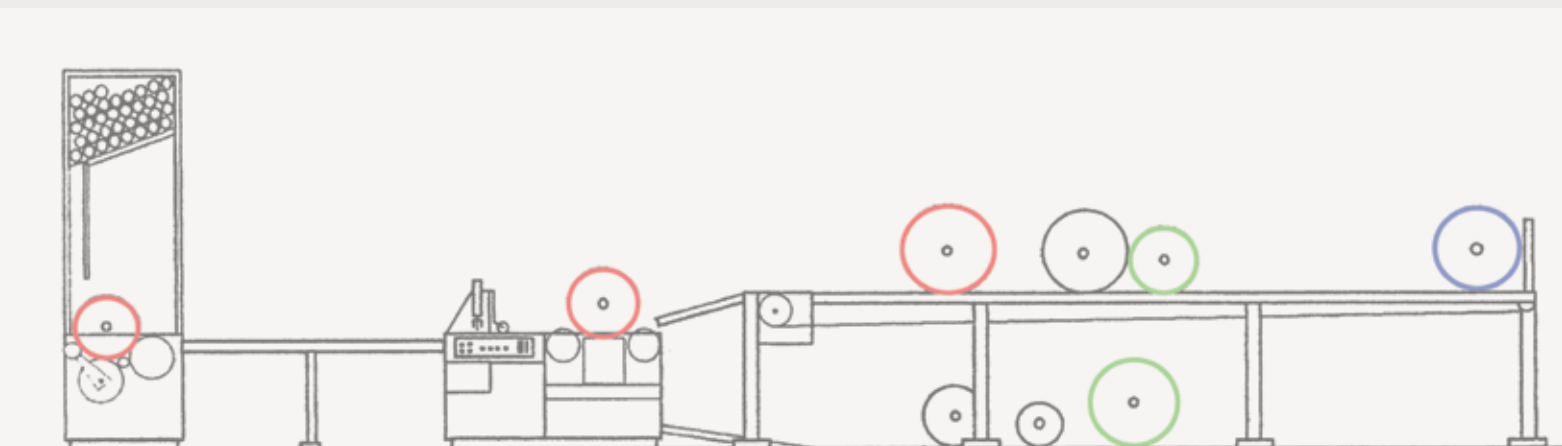
#### Extras:

- Pre-Cut Storage
- Pneumatic Bridge
- Auto Roll-Up
- Post-Cut Storage
- Roll Swivel
- Plastic Wrapping
- Core Storage
- Auto Side Shift
- Bar Coding

“The Elite has been designed with high volume product handling in mind for the requirements of the larger flooring warehouse”.

#### The Convenience Of A Pre-Cut Storage Conveyor

A precut roll storage conveyor with lowering bridge and post cut balance roll storage underneath allows for maximised use of the cut-length machine. By loading several rolls onto the storage conveyor and giving the operator a consolidated cutting list, rolls can be continuously cut to length, taped, unloaded and re-rolled with maximum efficiency. The belts, track and drive for this unit are substantial with the controls either grouped at the table end or situated at the main console. Strong 180mm wide special 3-ply conveyor belts convey the rolls forward to the point where the roll is moved down the slope onto the pneumatic bridge which carries the roll to the unroll unit. This bridge lowered for this operation, is then raised to allow the balance roll to be ejected back underneath.







## Elite

### Unroll Unit

The unroll unit has two large rollers connected by slack multiply rough top belts to give control to unrolling loose ends. It is driven beneath by a 1.1 kw guarded motor unit. The unit can be used also to re-roll carpet rolls up to 800mm wide in diameter (approx 50 metres in length). The unroll unit can be supplied with roll-swivel and side shift (auto or manual) and these are advisable when utilising the unit as a cut-length machine allowing automatic roll straightening and layout.

### Cutting Module

The cutting module can be supplied with 2 sorts of bidirectional cutting heads. The first has a strong traversing rigid knife head which utilises cheap and easy replacement blades for fast, reliable cutting. The second cutting head uses four heavy duty hardened steel rotating blades. This cutter provides smooth precise and consistent cutting in just seconds. These blades rarely need sharpening.

### Specifications :

<b>Type:</b>	Standard Unroll Auto Re-Roll & Cut c/w Table
<b>Power:</b>	3kw 3ph 415V
<b>Air:</b>	1 cfm / 4 mPa
<b>Width:</b>	4.500 metres
<b>Height:</b>	1.500 metres
<b>Length:</b>	5.000 metres



### Electrical Console

The control console is attached to the side of the cutting unit. It can be constructed on the right or left hand side of the machine but this must be arranged at the time of order. The console with push buttons, toggle switches and a main joystick allows one man to control the running of the whole machine. The incorporation of the latest inverter technology enables precise roller speed settings. The carpet is run out to length through the cut off unit, clamped, cut to length and rewound or rolled up. The cutting knife is fully guarded either by the clamp whilst moving or being stabled in the side housings as it ends the stroke. An emergency safety shut-off switch and a clamping/ cutting cut out switch provides safe operation.

The product is lead on by input belts through a cross cut/clamp guard and it is here that digital readout length measurement can be provided.

### Inspection Table

The inspection table module has 75mm wide rough top, non marking belts traversing across the table to carry the cut piece or the new end across it. It is usually supplied 2 metres long but can be manufactured to customers requested length.

### Roll-Up Unit

The roll up unit has 220mm diameter rollers and is powered by a 1.1kw motor. It can be supplied as an automatic roll start version with pneumatic movement which allows the operator to remain at the console whilst starting the roll, rolling up and eventually ejecting the roll from the machine. Rolls up to 500mm diam can be easily accommodated.

### Core Storage

An overhead core storage unit can also be provided. This will hold up to 40 cores and dispense them as required into the roll-up head. The control for this unit is located at the main console for easy centralised operation.

### Bar Coding

A Bar Code and Labelling System for printing cut and stock lengths is available.

CTS can also supply the Automatic Stock Control software making warehouse operations simple and easy



# Jumbo Roll

## Large roll capacity rolling

For use at the end of finishing lines and the back of tufting machines. Capable of rolling lengths of carpet in excess of 300 metres

### SPECIFICATIONS:

- Pneumatic lifting cylinders
- High power 53:1 gear boxes
- Rubber adhesive roller covering.
- Roll up speeds from 20 meters/min
- High efficiency Toshiba motors.
- Painted to customers requirements.
- Flanged end plates for prevention of telescoping of roll.

CTS Group have become one of the largest and most comprehensive suppliers in the Australasian Market







## Secloc

### Secondary backing precoat systems

Introducing 'Secloc' a Range of secondary coating machines for the textile industry.

The Secloc Backing System has been purposely designed to enable clean and efficient applications of latex. It enables the user to save on overall latex usage as specially compounded, stronger latex can be used in a "Smear" type coating process reducing the need for fully filled yarn troughs. Strong and clean secondary adhesion is promoted as lint on the jute fibre is beaten loose and extracted while the fibres are opened out. This enables a stronger bond and keeps the latex in the trough cleaner. Pneumatic or actuated lifting of rolls up to 1 tonne in weight reduces the hassles and strains involved in loading and unloading of heavy secondary rolls.

Photocell tracking keeps the unit on line with the edge of the product enabling consistently cleaner oven stenter pins and rollers.

The latex applicator can be easily unplugged and disconnected from the roll carrier and beater unit. It can then be rolled out on the rail system provided enabling easier cleaning and maintenance. The stainless steel trough and applicator roller prevents rust and assists cleaning of the bath.

Ball bearing vee wheels and a large diameter side shifting screw enables the unit to easily movesideways with the product.

A stainless steel traversing feed tube and hose complete with attached agitator allows even distribution of the latex flow.

A pneumatic spiked tension roller keeps a steady tension on the secondary backing despite decreasing roll size or beating and oining.

Trough level monitors can be fitted to ensure that the latex level is set for constant, even disbursement of latex.

Inverter and PLC technology has been included to smooth reversals and enable the speeds of the drives to be infinitely varied.

"Applicator for secondary backing prior to the marrying of the primary coated product. Including unroll, back-beating and line extract systems".

The complete system includes:

- Heavy duty pneumatic or electrically actuated lifting Unroll Unit.
- Twin Roller Back Beater and Fluff Extraction Vacuum System
- Spiked pneumatically controlled Tension Roller.
- Adjustable Selvedge Lifters.
- Automatic Traversing Latex Feed Tube and Agitator.
- Adjustable Contact Rollers & Stainless Steel Applicator Roller.
- Advanced Auto/Manual Photocell Tracking System
- Inverter driven speed control complete with digital readout.
- PLC based control system

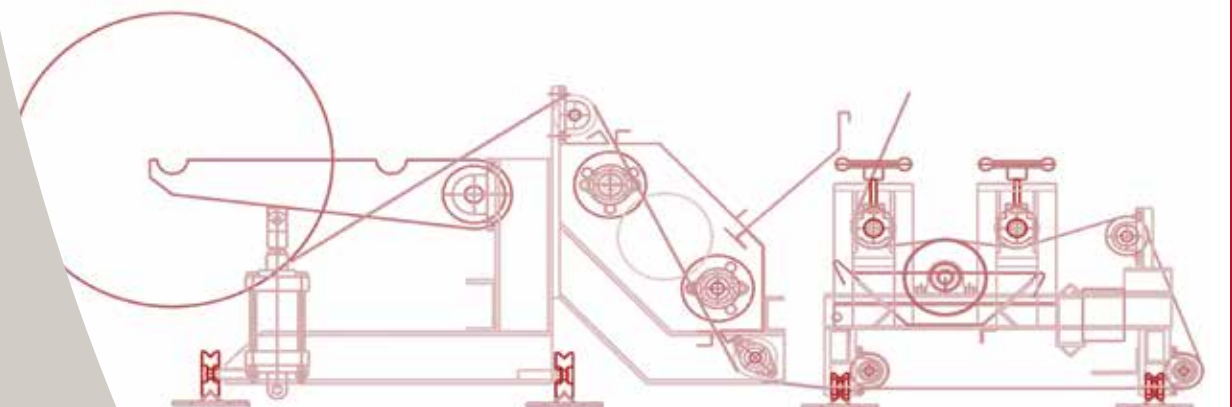
#### Specifications:

**Size:** 5.5 meters x 3metres

**Weight:** 1000 kg

**Electrical:** 240V 415V power

**Capacity:** up to 800mm diam rolls





## Static Foam

### Continuous foaming machines model - static 5

Introducing 'Static-Foam' a continuous automatic stain retardent foaming machine.

STATIC 5 is constructed of a stainless steel frame enclosed in polished stainless steel surrounds. The electrical motor, gearbox and pump are of the highest quality providing essential reliability and performance.

STATIC 5 incorporates the latest electrical inverter technology enabling accurate control and digital speed indication for pump. Speed range from 50 to 500 RPM.

The stainless steel mixing heads are supplied with water flush. The unit comes standard with mechanical gland pump but optional soap seals or ceramic sleeves can be supplied if required. The pump size is selected to suit output requirements. All wetted parts are made of stainless steel and are easily dismantled for cleaning.

The pipe work and fittings are of stainless steel and include a diaphragm isolated back pressure gauge. The air system includes a high quality precision regulator, high quality flowrator and swept flow air injection. The inclined control panel provides good visibility and easy adjustment of the main control settings. Optional remote controls can be supplied if required.

A Static 5 can produce up to 400 Kg wet foam per hour.

"Production model - static 5 chemical low density foam for topical applications such as stain and fire retardents".

### Specifications:

<b>Size:</b>	1.4 meters x 600mm x 1.3metres
<b>Weight:</b>	100 kg
<b>Electrical:</b>	1 PH 240V 10 amp power supply (others available)
<b>Capacity:</b>	up to 400kg per/hour







“CTS offer a state of the art modular oven design with adjustable top conveyor belts.”

## Thermo-Bond

### Thermal bonding oven lines

Introducing “Thermo-Bond” a range of thermal bonding oven lines for the finishing of non-woven natural and synthetic fibre bonded products.

- Adjustable Height Feed Input.
- Top and bottom Woven Teflon Coated Compression Belts.
- High Efficiency DIN Standard Modern Heater units with Modulating 4 to 20 ma. Digital Indicating Temperature Controls for efficient fuel usage.
- Easily serviced, removable externally mounted Burners and Gas Trains.
- High Efficiency Electric Motors.
- Fully Insulated Removable External Panels.
- Low Noise Backward Curved Centrifugal Fans.
- True top and bottom Zone Heating with a evenly distributed Controlled Air Flow Circulation.
- Auto Tracking Belt Control with Limit Switches.



- Internal or external Air Suction Cooling Chamber.
- Latest technology Inverter Driven Speed Control complete with Digital Readout.
- Full height opening doors for easy access to fans and oven cleaning.

### Specifications :

Speed 1 To 15 Metres/Min

Belting 2 To 5 Metres Wide Teflon Coated

Temperature 100 To 200 Deg C

Open Mouth Adjustable To 500Mm High

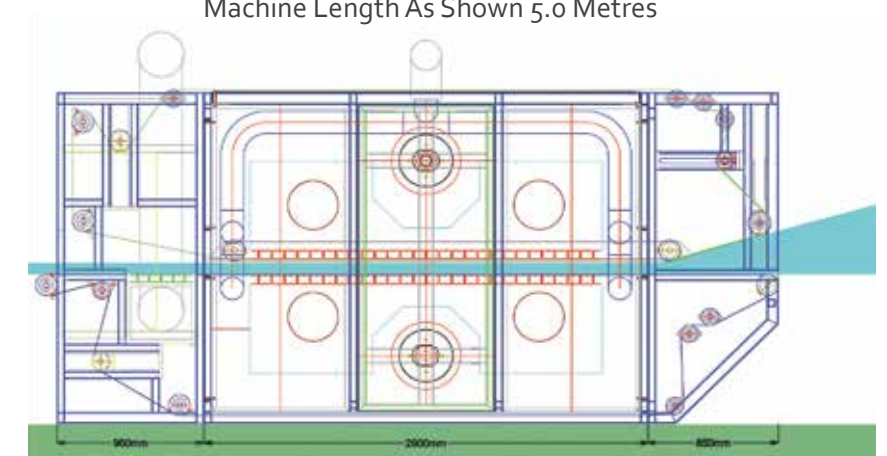
Top Belt 30Mm To 200Mm Height Adjustable

Drive 2 Kw 3Ph 4P Motor (Inverter Driven)

Max Heat Input 500 Mj/Hr Per Heating Module

Air Flow Variable Direction & Velocity

Machine Length As Shown 5.0 Metres





## Top-Coat

### Direct coating machines

Introducing 'Top-Coat' the range of automatic back coating machines.

**TOP COAT** is a roll over roll type unit with an accurately machined hard chrome plated lower roller acting as a gauging bed. Stainless steel tables either side of the gauge roll support the material with its adhesive puddle and allows the direct coater to be operated in either direction. This is desirable for foam, primary or secondary coating. An accurately machined hard chrome plated upper roll is positioned above the lower roller with variable weight balance loading and an accurately adjustable minimum gap setting. A traversing feed tube enclosed in a carry case reciprocates from side to side. This deposits the coating in a controlled width puddle before and against the upper gauging roll. Motorised side guides with infra-red edge detectors keep the puddle located between the selvages and control travel of the feed tube. A strong frame and large diameter rollers allow adequate rigidity and allow for setting accurate deposition rates which control the usage of coating materials. An input dancing roller complete with an electronic sensor automatically controls the input feed rate.

Substantial guards are used to protect the user from driving parts. All gearboxes, motors bearings, screws and chains are prelubricated. The unit comes primed and finished in green or can be painted to suit the customers requirements. The electrical control gear is contained in a splash proof control cabinet conveniently located on the machine. It provides easy access to the control settings and the emergency stop button. The units power requirements are a 415V 3ph 20 amp. power supply.

"Top-Coat is a roll over type unit with accurately machined chrome plated gauge rollers."

If desired the upper gauging roll is manufactured with an internal flow through system. This enables the unit to chill the surface by cold water circulating through the roller. The larger lower gauging roller can also be manufactured to facilitate the flow through system. The input drive roller is rubber covered and driven by a .55kw DC drive. The stainless steel traversing nozzle is supported by bearing mounted vee wheels and move up and down a steel vee track. Geared .18kw motors control floating slideout puddle wings which are made of 12mm thick polyethylene allowing easy cleaning.

### Specifications:

<b>Size:</b>	1.4 meters x 600mm x 1.3metres
<b>Weight:</b>	100 kg
<b>Electrical:</b>	1 PH 240V 10 amp power supply (others available)
<b>Capacity:</b>	up to 400kg per/hour





# Top-Foam

## Continuous foaming machines

Introducing 'Top-Foam' the range of continuous automatic foaming machines.

Top Foam is constructed of a heavy steel frame enclosed in polished surrounds. The electrical motors, gearboxes and pump are quality providing essential reliability and performance.

Top Foam incorporates the latest electrical inverter technology enabling rol of digital speed indication for pump and mixer. Speed range from 50 to 600 RPM.

The fully stainless steel mixing head is supplied with water cooled stators, replaceable shaft sleeve and extractors.

The unit comes standard with water flush glands to mixer and pump but optional soap seals or ceramic sleeves can be supplied if required.

The pump size is selected to suit output requirements. All wetted parts are made of stainless steel and is easily dismantled for cleaning.

The pipe work and fittings are of stainless steel and includes a diaphragm isolated back pressure gauge.

The air system includes top quality precision regulator, high quality flowrator and swept flow air injection.

The inclined control panel provides good visibility and easy adjustment of the main control settings. Optional remote controls can be supplied if required.

Foaming units can produce between 400 and 4500 Kg wet foam per hour.

The combination of careful design, quality construction and modern technology makes Top Foam an ideal choice.

"Top-Foam is a precision unit producing the most consistent continuous homogenised latex polymers."

## Mixing Head

Sizes Range from:

200mm

single or double

250mm

single or double

360mm

single or double

460mm

single or double

## Specifications:

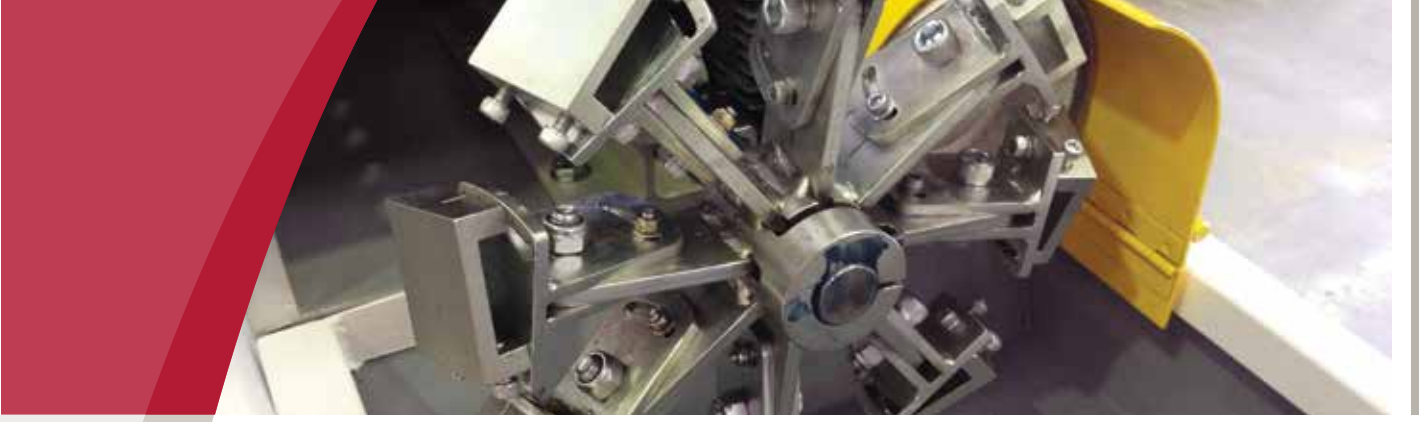
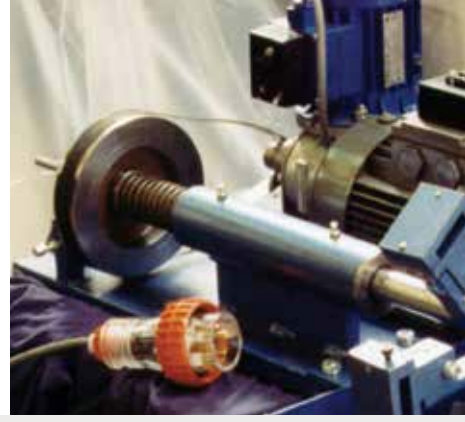
Size: 1.2 meters x 850mm x 1.5 metres

Weight: Up to 500 kg

Electrical: 3PH 400V power supply (others available)

Capacity: 400 to 4500 kg per/hr





## Truecut

### Knife and loop grinder

Introducing "Truecut" a Knife and Looper Grinder for the world wide tufting industry.

#### Specifications:

- Grinds approximately 275 knives per load
- Suitable for any knife angle
- Complete with coolant tray
- Knives held in six separate fixtures
- Bench top setting jig

#### Benefits:

- Automatic feed
- Simple set-up and use
- Mountable to any bench top
- Reliable
- Cost effective

#### Optional Extras:

- Looper grinding attachment
- Diamond dressing attachment

"With the aid of a CTS knife grinder, a tufting plant can keep their cutting knives and loopers in top condition to produce high quality products with minimal cost and fuss."





“Back coating lines for all types of Tufted, Woven, Needle Punch Carpet and Underlay materials”.

## True-zone

### Back coating oven plants

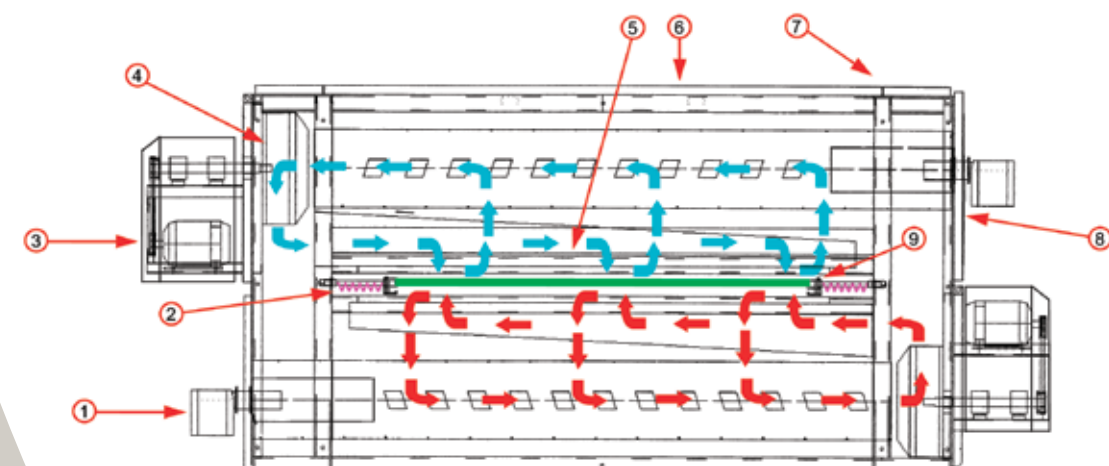
Range of back coating and finishing equipment.

- High Efficiency DIN Standard Modern Heater units. Fully modulating controlled at the Main Console with Digital Indicating Display Units.
- Fibre Glass Heat Resistant Curtain.
- High Efficiency Electric Motors.
- Low Noise Backward Curved Centrifugal Airfoil Fans.
- Evenly distributed Controlled Air Flow Circulation System.
- Anti-Corrosive, Fibreglass Insulated, removable Galvanised Panels.
- Adjustable Air Extraction to each top and bottom zone of each module.
- Fully adjustable Secondary Air Intakes. allowing up to 2.1 metre Width Variation.
- Heavy Duty Stenter Rail System for 3" Pitch Heavy Duty Stenter Chain.

- True top and bottom Zone Heating (separated air flow allows for up to 50°C differential between Top and bottom zones).
- Easy removal burners and fans and simple access to oven and air chambers through side panel doors.
- A diagonal High Flow Air Jet System easily accessible through side panel doors.
- Oven Alternatives : Air Bed, Water Cooled Support Rollers, Spiked Feed Rollers, Fixed or Expanding Width.
- Stenters to customers Requirements.

#### Available Widths:

2.2m/2.5m/3.0m/3.7m/4.0m  
with up to 2.2 metre reduction





CTS manufacture Backing and Finishing Lines for primary, secondary and foam backing of carpet, non woven latex bonding and curing, non woven thermal bonding and foamed underlay products. Oven lines can range from the very simple, for small

operations, to the very sophisticated for higher speed operations. The units are of modular construction with modules being transported in standard shipping containers allowing easy and swift site assembly and installation. Modular components can often be retrofitted to existing lines to enhance performance or extend capacity. Variable and fixed width stenters, spiked rollers or teflon coated belts can be supplied for transporting the product through the oven. The combination of careful design, quality construction and modern technology ensures machine reliability and customer satisfaction.



### Advantages

- Sewing machine
- Unroll (tracking)
- Backbeater
- Unroll j-bin (tracking)
- Steamer
- Dancing roller (electronic)
- Direct coater
- Secondary unroll (tracking)
- Secondary backbeater
- Secondary backing applicator
- Stenter wings
- Balanced nip rolls (neumatic lift)
- Exhaust fan
- Backing ovens (4 module)
- Stenter main drive
- Trim knives
- Walkway
- Accumulator
- Dancing roller (electronic)
- Inspection area

### Input Stenter Wings With Auto Guidance

The input of the stenter chain into the oven is by self tracking stenter wings. These hinged wings automatically side adjust by sensing the selvage position and then compensate for variations in cloth width or total cloth side position. Each wing can also be manually operated by means of a toggle switch located on the wing control box. Two sets of pinning rubbers are attached to each wing to press home the cloth onto the stenter pin plates. The wing frame is floor mounted on legs and forms an input module complete with lead in roller and supports.

### Main Stenter Drive and Pull Roller

The stenter output and chain drive module has carpet de-pinning to effectively detach the carpet from the chain. The chain is driven by large diameter pin sprockets on a main shaft. If mechanised width adjustment is required, these sprockets slide sideways in yokes. The cloth then passes over a bow/pull roller which is driven by an adjustable torque drive. The main shaft is driven through a chain drive sprocket and gearbox to an inverter frequency controlled motor. This controls the speed of product through the oven.

### Foaming Unit

Including :

- Digital speed control
- Stainless Steel
- Enclosure Manual or Automatic

### Oven Line Close-Up

Showing :

- Riello Modulating Gun Type
- Gas Burners
- Overhead Exhaust System

### Electrical Console

Including :

- Digital Temperature Control
- Digital speed control
- Air Flow Indicators

### Output End Cut & Roll Machine

Available with :

- Bi-directional Blade Cutting Head.
- Rotating Disc Cutting Head.
- Auto Digital Pre-Set stop & cut.
- Computer linkedBarcode System.
- Digital Weighing





# Conveyors

## General conveyors for all industry

Introducing a range of conveyor systems for general industry.

What business are you in?  
What criteria do you consider most important when you are looking for ways to make your business run better?

- Increase productivity
- Increase performance
- Increase profits
- Increase plant capacity
- Improve safety
- Improve morale

## CTS Group can provide:

- Ergonomic station
- Scissor lift table
- Pallet dispensing
- Extendable conveyors
- Overhead conveyors
- Pallet turntables
- Lift & tilt table
- Roller conveyors
- Pallet conveyors
- Upenders
- Belt conveyors
- Truck power chain floor
- Pick & place palletizing
- Chain conveyor
- Storage systems
- Accumulation systems
- Truck loading dock
- Truck roller floor
- Timber conveyors
- Palletizing

“PLC integrated conveyor weighing systems. For the textile, food and automotive industries.”





## Conveyors

Additional products that have been revamped include:

Gravity conveyor with new spindles and bolt-on RHS legs for greater sturdiness. Pallet conveyors now features chain over RHS with HDPE protection on the return.

Spiked and plain lattices for the textile and relate industries.

Modular belting system for food, paper and packaging. Economically priced, high quality material handling conveyors.

Modular belting to suit all warehousing requirements.



## The CTS Conveyor Division

The CTS Conveyor Division caters for all types of PVC conveyors for the textile, food and other associated industries including automotive. (Service division included)







“ *Mission Statement:* Providing a complete and comprehensive range of services in the Textile industry to enable our customers to gain a competitive advantage. ”

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