



Fixed Knot Fencing Machine



A photograph of a snowy mountain range under a blue sky with scattered white clouds. In the foreground, a fixed knot fence is visible, consisting of several horizontal and vertical wires connected by small, dark, square-shaped knots. The ground is covered in snow, with some sparse, dark vegetation and a small, leafless tree on the left side. The overall scene is bright and clear.

**Fixed knot
remains the
toughest fence
knot on the
market**





Fence Built to Last

The Fixed Knot fencing machine has been designed and developed by South Fence Machinery with their experience of over 85 years in the fence and fence machine manufacturing industry.

This knot is used widely in the North American market and is known for its robust structure and versatility. It features a tightly wrapped t-shaped knot that eliminates any vertical or horizontal knot movement.

Our current model has the ability to run 28-lines with a table width of three meters. This is a dual fence machine, allowing the manufacture of two rolls at the same time. This machine can operate at speeds up to 40 cycles per minute with reliability you can trust.



Full of Features for your Fencing Needs

Our Fixed Knot fencing machines support all the features and functionality expected on any modern manufacturing machine:

- The Human Machine Interface (HMI) facilitates easy setting and adjustment of the machine during operation as well as displaying real time manufacturing information and machine status.
- The direct stay-wire feed system gives versatility of fence specifications and clear uninterrupted operator vision of the knotting boxes. Line-wires can be added or dropped off at the top or bottom of the fence to overcome the necessity of shifting the knotting boxes.
- The servo-driven indexing crimping drum facilitates the effortless change of stay-wire spacing's at the push of a button, eliminating long down times during specification changes.
- The finished fence is wound on to a variable torque roll wind up system that automatically adjusts throughout the manufacturing process to ensure a compact roll is produced for ease of handling and shipping.
- The finished roll is automatically stripped from the mandrel by the stripping system to minimize employee handling and fatigue.

C4C-EA165
30A10000

Ident No.
1211508

Serial No.
18140715

1 2 3 4

OSSD



ERR



SICK

C062-U2

Think Safe, Think South Fence

We take the safety of your operators seriously. To achieve this, a comprehensive safety evaluation is undertaken on each of our machines coupled with a full guarding package including a combination of fixed guards, monitored RFID removable guards, light curtains, and area scanners. You can rest assured that we have your operator's safety in mind.

Supported by the Best

Using reputable products of internationally recognised quality allows our customers to get prompt and reliable part sales and service whenever and wherever required. Our suppliers are industry leaders in their field, supplying only the very best equipment for our machines.



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SICK
Sensor Intelligence.



FESTO



SKF



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Fence Specifications

Maximum Fence Height (Table Width)	3.0 metres (120")*
Maximum Number of Horizontal Wires	26 Line for single fence 28 Line for dual fence
Horizontal Wire Spacings	Minimum 3" (75mm)* with 1/2" (13mm) increments
Vertical Wire Spacings	3", 6", 9", 12", 18", 24", 48" (75mm, 150mm, 225mm, 300mm, 450mm, 600mm, 1200mm)*
Line-wire (Horizontal) Sizes	Intermediate: 2.50mm (.098")Ø** Selvege: 2.50mm to 3.50mm (.098" to .138")Ø 500 - 1390 N/mm ² (32 - 90 Ton/sq in)
Stay-wire (Vertical) Sizes	Standard: 2.50mm (.098")Ø** 500 - 900 N/mm ² (32 - 58 Ton/sq in)
Knot-wire Sizes	Standard: 2.24mm (.088")Ø** 430 - 500 N/mm ² (28 - 32 Ton/sq in)
Maximum Roll Size	800 mm (31.5")Ø

* Machines are available set for either metric or imperial line-wire measurements. Purchasers need to state their preferred option. Additional equipment is available to change from metric to imperial or from imperial to metric if required.

** Custom tooling to suit different wire gauges available on request.

PINCH POINT
CAN CAUSE SEVERE
PERSONAL INJURY

MOVING PARTS
KEEP HANDS
AND FEET
CLEAR

Machine Specifications

Maximum Machine Speed	40 cycles per minute
Motion System	Controlled Siemens Servo Drives
Dual Feed System	Enables 2 rolls to be manufactured simultaneously (2.8 (110") usable width)
Wire Fault Detection System	Standard with all machines
Safety Equipment Utilised	Fixed guards, CAT4 RFID monitored guards, CAT4 Light Curtains, CAT3 Scanners
Centre Twist	Available on request
Automatic Label Inserters (A4 and A3)	Available on request
Automatic Roll Cut, Strip & Restart	Available on request
Lubrication System	Automatic machine lubrication, additional lubrication options available on request
Approximate Floor Area Required	22m x 13m (72ft x 42ft)

Fence Type (Line-wires / Fence Height in cm/ Stay Spacing in cm)	Rolls per shift (8 hours)	Meters per shift	Weight per shift (kg)
(9/125/60) - 200m - Dual	38	7660	3590
(9/125/30) - 100m - Dual	68	6840	4090
(9/122/15) - 100m - Dual	38	3800	3230
(20/244/30) - 100m - Single	34	3420	4480
(25/183/7.5) - 60m - Single	16	980	2980

These values have been approximated and will vary depending on operator competency, fence specification, preventative maintenance, etc.



Our Team

South Fence Machinery Ltd is a privately-owned New Zealand company whose history dates back to the 1930's.

Originally known as NZ Fence & Gate Works the company operated from a small factory at Petone, in the Wellington industrial area, manufacturing wire products for local distribution. Over the ensuing years the company – then known as Hurricane Wire Products Ltd – grew rapidly to become recognised in New Zealand as an industry leader in the manufacture of wire based commodities.

In 1986 the wire products division of Hurricane Wire Products Ltd was sold and the Engineering Division became South Fence Machinery Ltd.

Today, South Fence Machinery is respected worldwide for our machinery's product quality as well as after sales service and support. The company now looks to the future with faster and more productive machine solutions being designed and built by our specialised team of machine designers and engineers.







Our Machines

South Fence Machinery offers a complete suite of fence machines – Stiff Stay, Fixed Knot, and Hinge Joint. With this range of fence types you can meet your fencing needs from camels in desert sands to cows in gentle pastures; from deer in alpine meadows to security alongside motorways, South Fence Machinery does it all.

Our machines are built to provide the best solution for your needs, machine mesh size, fence height, and machine specifications can be fully adjusted to meet and exceed your expectations.

In addition, we also manufacture barbed staple machines and wire coilers as ideal companions for your fence machines.



Contact
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today about the
latest in
fencing machine
technology

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