Stiff Stay Fencing Machine
South Fence’s forged Stiff-Stay knot features a distinctive smooth, strong, and economical knot.
The South Fence Machinery Ltd Stiff Stay Machines have been developed from the company’s extensive experience of over 85 years in the manufacture of fence and fencing machinery.

Initially designed for the North American horse fence market, the Stiff Stay fence features a distinctive smooth, strong knot used in a wide variety of applications such as stock fence, game fence, security, and construction.

Our current model has the ability to run 26-line at a total bed width of 2.6 meters. With dual fence capabilities, the machine can manufacture two rolls simultaneously. This machine can operate at speeds up to 80 stays per minute and the patented South Fence knot forging system allows for the manufacture of a mesh as close as 50mm x 50mm.
All the Features you Need in One Machine

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

- The Human Machine Interface facilitates easy setting and adjustment of the machine during operation as well as displaying real time manufacturing information and machine status.

- The innovative Tri-drive feed unit ensures rapid and accurate wire delivery directly into the knot forging system.

- The servo-driven indexing crimping drum facilitates the effortless change of stay wire spacings 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 manufacture process to ensure the most compact roll practical is produced for ease of handling and shipping.

- The finished roll is finally mechanically removed from the slotted mandrel by the automated stripping system to minimize employee handling and fatigue.
Think Safe, Think South Fence

We take the safety of your operators seriously here at South Fence. To achieve this, a comprehensive safety evaluation is undertaken on each of our machines coupled with a full guarding package with a combination of fixed guards, monitored RFID removable guards, Safety light curtains, and safety scanners. You can rest assured that we have got your operators safety in mind.
Supported by the Best

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

SIEMENS

SENSING INNOVATION.

FESTO

SKF

Sensor Intelligence.
# Fence Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Fence Height (Table Width)</strong></td>
<td>2.6 metres (102&quot;)¹</td>
</tr>
</tbody>
</table>
| **Maximum Number of Horizontal Wires** | 25 Line for a single fence  
                                           26 Line for a dual fence                              |
| **Horizontal Wire Spacings**          | 50mm, 75mm, 100mm, 125mm, 150mm, 175mm,  
                                           200mm, 225mm, 250mm, 275mm, 300mm  
                                           (2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12")¹ |
| **Vertical Wire Spacings**            | 50mm, 75mm, 100mm, 150mm, 225mm, 300mm,  
                                           450mm, 600mm, 1200mm, 1800mm  
                                           (2", 3", 4", 6", 9", 12", 18", 24", 48", 72")¹ |
| **Line-Wire (Horizontal) Sizes**      | Standard: 2.50mm (0.098")Ø*  
                                           Salvage: 2.50mm to 3.55mm Ø  
                                           500 - 1390 N/mm² (32 - 90 Ton/sq in) |
| **Stay-Wire (Vertical) Sizes**        | Standard: 2.50mm (0.098")Ø*  
                                           500 - 900 N/mm² (32 - 58 Ton/sq in) |
| **Knot-Wire Sizes**                   | Standard: 2.50mm (0.088")Ø*  
                                           430 - 500 N/mm² (28 - 32 Ton/sq in) |
| **Maximum Roll Size**                 | 800 mm (31.5")Ø                                                           |

¹ These 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.
Machine Specifications

Maximum Machine Speed
80 cycles per minute

Motion System
Controlled Siemens Servo Drives

Dual Feed System
Enables 2 rolls to be manufactured simultaneously (2.4m or 96” useable width)

Wire Fault Detection Systems?
Yes, this is standard equipment

Safety Equipment Utilised
Fixed guards, CAT4 RFID removable guards, CAT4 Light curtains, CAT3 Scanners

Centre Twist Compatible?
Yes, available on request

Automatic Lubrication System
VOGEL automatic machine and knot box lubrication, more lubrication options available on request

Automatic Roll Cut and Strip Compatible?
Yes, available on request

Approximate Floor Area Required
22m x 12m (72ft x 40ft)

<table>
<thead>
<tr>
<th>Fence Type</th>
<th>Rolls per shift (8 hours)</th>
<th>Meters per shift</th>
<th>Kg’s per shift</th>
</tr>
</thead>
<tbody>
<tr>
<td>(8/90/30) - 100m – Dual</td>
<td>114</td>
<td>11,300</td>
<td>5,160</td>
</tr>
<tr>
<td>(8/90/15) - 500m – Dual</td>
<td>16</td>
<td>8,085</td>
<td>4,860</td>
</tr>
<tr>
<td>(13/122/15) - 100m – Dual</td>
<td>68</td>
<td>6,800</td>
<td>6,210</td>
</tr>
<tr>
<td>(20/244/15) - 100m – Single</td>
<td>34</td>
<td>3,400</td>
<td>5,240</td>
</tr>
<tr>
<td>(13/122/5) - 50m – Dual</td>
<td>49</td>
<td>2,430</td>
<td>4,220</td>
</tr>
</tbody>
</table>

1 These 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.

These times have been approximated and will vary depending on operator competency, fence specifications, 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 – Fixed Knot, Hinge Joint and Stiff Stay. 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 South Fence today to ask about the latest in fencing machine technology.

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