



Hinge Joint Fencing Machine











**The  
Hinge Joint  
creates a cost  
effective and  
economical  
fence solution**





## Cost Effective Fence Solution

The Hinge Joint 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 fence style was one of the first woven wire fences to come on to the market in the late 1800's and is still used worldwide as a cost-effective wire fence solution.

Our current model has the ability to run 14-lines with a total machine table width of 2 meters. This allow for the manufacturing of a single fence with machine speeds of 130 cycles per minute. This results in our fastest fence machine currently on the market.





## Fast and Efficient Fence Manufacture

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

- Simple and well-engineered components ensure the machine runs reliably. If desired, the machine can be designed to support custom wire specifications.
- A range of crimping drum change gears along with simple mechanical adjustments ensures the machine operator can change and manufacture many common stay-wire spacing sizes.
- The machine has a comprehensive arrangement of electric trip systems to ensure the machine stops in the event of wire tangle, breakage, or incorrect machine function.
- The take-up assembly incorporates a driven stripper trolley and support trolley for easy roll removal to minimise operator fatigue.



## 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 guards, and safety Light Curtains. You can rest assured that we have your operator's safety in mind.

**SIEMENS** CE 2017  
3SE6 315-0BB02 IP69K LISTED 80SA  
IEC 60947-5-3 Ue 24VDC -Ie 0.6A IND. CONT. EQ.  
Siemens AG DE-92220 Amberg Type 4X, 12, 13  
MADE IN GERMANY Safety Component 170221 (CS)  
UL<sup>us</sup>





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**B013-U1**

**SKF**

## 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.





## Fence Specifications

|   |  |
|---|--|
| <b>Maximum Fence Height (Table Width)</b> | 2.0 metres (79")*  |
| <b>Maximum Number of Horizontal Wires</b> | 14 Line  |
| <b>Vertical Wire Spacings</b>             | 150mm (6") and 300mm (12")<br>Custom spacing available on request  |
| <b>Line-wire (Horizontal) Sizes</b>       | Intermediate: Up to 2.80mm (.110")Ø**<br>Selvege: Up to 3.5mm (.140")Ø<br>500 - 1400 N/mm <sup>2</sup> (32 - 90 Ton/sq in) |
| <b>Stay-wire (Vertical) Sizes</b>         | Standard: 2.00 (.079") to 2.80mm (.110")Ø**<br>500 - 900 N/mm <sup>2</sup> (34 - 58 Ton/sq in)                             |
| <b>Maximum Roll Sizes</b>                 | 625 mm (24.5")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.

### Typical Fence Specifications

| 10"<br>254mm | 9 1/2"<br>241mm | 9"<br>229mm | 8"<br>203mm | 7"<br>178mm | 6"<br>152mm          | 5 1/2"<br>140mm | 5"<br>127mm | 4 1/2"<br>114mm | 4"<br>102mm | 3 1/2"<br>83mm |
|--------------|-----------------|-------------|-------------|-------------|----------------------|-----------------|-------------|-----------------|-------------|----------------|
|              |                 |             |             |             | 6 Line 28" (717mm)   |                 |             |                 |             |                |
|              |                 |             |             |             | 7 Line 28" (722mm)   |                 |             |                 |             |                |
|              |                 |             |             |             | 8 Line 32" (805mm)   |                 |             |                 |             |                |
|              |                 |             |             |             | 7 Line 36" (921mm)   |                 |             |                 |             |                |
|              |                 |             |             |             | 8 Line 36" (902mm)   |                 |             |                 |             |                |
|              |                 |             |             |             | 9 Line 39" (985mm)   |                 |             |                 |             |                |
|              |                 |             |             |             | 10 Line 47" (1189mm) |                 |             |                 |             |                |
|              |                 |             |             |             | 11 Line 62" (1580mm) |                 |             |                 |             |                |
|              |                 |             |             |             | 12 Line 72" (1834mm) |                 |             |                 |             |                |
|              |                 |             |             |             | 13 Line 75" (1917mm) |                 |             |                 |             |                |
|              |                 |             |             |             | 14 Line 79" (2000mm) |                 |             |                 |             |                |



## Machine Specifications

|  |  |
|--|--|
| <b>Maximum Machine Speed</b>                       | 130 cycles per minute  |
| <b>Motion System</b>                               | Siemens Motion Control   |
| <b>Dual Feed System</b>                            | Available on request   |
| <b>Wire Fault Detection System</b>                 | Standard with all machines   |
| <b>Safety Equipment Utilised</b>                   | Fixed guards, CAT4 RFID monitored guards,<br>CAT4 Light Curtains                                     |
| <b>Automatic Label Inserters<br/>(A4 and A3)</b>   | Available on request   |
| <b>Automatic Roll Cut, Strip &amp;<br/>Restart</b> | Available on request   |
| <b>Lubrication System</b>                          | Automatic machine and twister<br>lubrication, additional lubrication options<br>available on request |
| <b>Approximate Floor Area<br/>Required</b>         | 10m x 9m (33ft x 30ft)   |

| Fence Type<br>(Line-wires / Fence Height in cm/ Stay Spacing in cm) | Rolls per shift<br>(8 hours) | Meters per<br>shift | Weight per shift<br>(kg) |
|---|------------------------------|---------------------|--------------------------|
| (8/90/15) - 100m  | 51                           | 5050                | 3170                     |
| (8/115/15) - 50m  | 78                           | 3900                | 2680                     |
| (8/115/15) - 100m   | 51                           | 5050                | 3470                     |
| (6/70/30) - 200m  | 42                           | 8340                | 2940                     |
| (8/80/15) - 100m  | 51                           | 5050                | 3050                     |

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.





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