



Automatic Take-up Options



South Fence  
Machinery



Take your  
roll size  
down & boost  
production



## The Future of Fence Manufacturing

South Fence Machinery has been at the cutting edge of innovative technology advancements within the fencing market. A new addition to our take-up options are customer driven, to reduce roll size and boost productivity for both our Fixed Knot and Stiff Stay fencing range.

This technology was developed from our investigation into the stacking characteristics of fence wound onto the machine's take-up mandrel. It is widely known the fencing rolls that are stacked inefficiently will result in larger diameter fencing rolls due to a bulging effect on the lower section of the fence roll. A common technique to reduce this is to increase take-up torque, however this will result in wire stretch and significantly greater stress on the take-up assembly.

South Fence has combatted this with its development in dynamic fence layering control. Ultimately this results in a significantly smaller roll size and allows for further productivity optimization. We have created a number of take-up options to meet the specific needs of our customers, as follows:

- Option 1: Drive Roller Take-up
- Option 2: Option 1 + Clamping Trolley Take-up
- Option 3: Option 2 + Automatic Cutter Take-up
- Option 4: Fully Automatic Clamp, Cut, Strip & Reload Take-up

Option 1 (AT-OP1)



Option 2 (AT-OP2)



Option 3 (AT-OP3)



Option 4 (AT-OP4)



## Automatic Take-up Options Comparison

|  | AT-OP1 | AT-OP2 | AT-OP3 | AT-OP4 |
|--|--------|--------|--------|--------|
| 800mm Diameter Rolls at 500 meters   | ✓      | ✓      | ✓      | ✓      |
| 10% roll diameter reduction  | ✓      | ✓      | ✓      | ✓      |
| Reduced line-wire stretch & improved fence crimp   | ✓      | ✓      | ✓      | ✓      |
| Clamping trolley to eliminate tie-off time   | ✗      | ✓      | ✓      | ✓      |
| Automatic roll cutting to eliminate operator fatigue   | ✗      | ✗      | ✓      | ✓      |
| Fully automated roll cut, strip, feed, and restart to guarantee consistent roll stripping time | ✗      | ✗      | ✗      | ✓      |
| Additional preventative maintenance time gained through automation                             | ✗      | ✗      | ✗      | ✓      |

## Roll Size Reduction

| 8/90/30 x 100 meter<br>(Line-wires / Fence Height in cm/ Stay Spacing in cm) | Standard<br>Take-up | Automatic<br>Take-up |
|--|---------------------|----------------------|
| Roll Diameter (mm)   | 355                 | 320                  |
| Roll Tension (%)   | 25                  | 25                   |
| Layering Width (mm)  | 70                  | 120                  |
| Roll Diameter Decrease (Compared with Standard Roll)                         | 0                   | 9.9%                 |

Standard Traverse roller compared with Drive Roller for an 8/90/30x100 meter Stiff Stay fence

## AT-OP4 Productivity Comparison

| Fence Type<br>(Line-wires / Fence Height in cm/ Stay Spacing in cm) | Rolls per shift<br>(Standard Take-up) | Rolls per shift<br>(AT-OP4 Take-up) | Production<br>Increase |
|---|---------------------------------------|-------------------------------------|------------------------|
| (8/90/30) - 100m - Dual   | 131                                   | 162                                 | 23.7%                  |
| (8/80/15) - 100m - Dual   | 81                                    | 92                                  | 13.6%                  |
| (13/122/5) - 50m - Dual   | 59                                    | 64                                  | 8.5%                   |
| (19/183/5) - 50m - Single   | 29                                    | 32                                  | 10.3%                  |

The values are based on a 1-minute auto-cut stripping time vs an optimistic 2-minute operator stripping time with the machine operating over an 8-hour shift.



## 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.




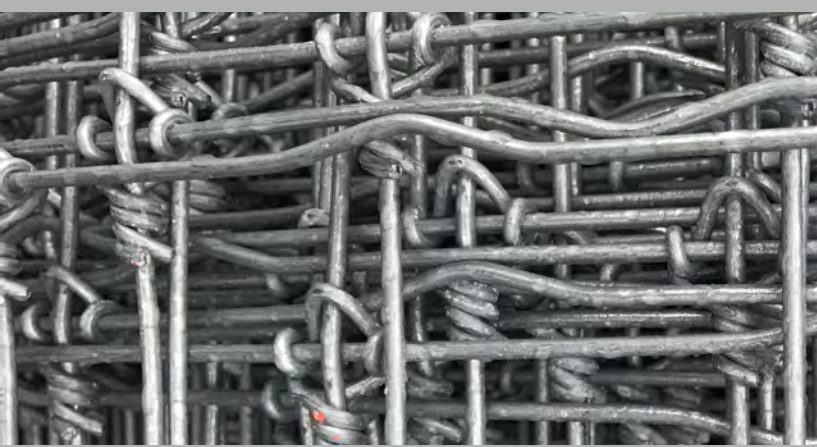


## Our Machines

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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