



FLM-10 & FLM-12

The only machines in the world capable of producing **two different types of fence knot.**

● Models: FLM-10S & FLM-12S

FIXED LOKK

STAY LOKK

UP TO 1,500 KG

ENQUIRIES

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Design Offers

The FLM-10 & FLM-12 Fence Lokk Machines are engineered for exceptional versatility and efficiency in wire fence manufacturing. The following design advantages are built into every machine.

MAINTENANCE

- Knot system requires fewer parts and less complexity
- Quick change components for ease of maintenance and rapid replacement of wire contact area components
- Additional height back-frame for better coiled wire payoff
- Rockwell AB Automation and hardware used throughout
- Automatic distribution of alerts or remote reports for faults and production data

OPERATOR

- Integrated PLC Machine Safety with light curtains, laser scanner, and magnetic RFID guard sensing
- Lifting operator platform for ease of wire threading
- Front and rear HMI interfaces for operators with hand wheel adjustment for slow speed operation and machine set-up
- Individual axis control over knot tying motion
- Machine sits on feet allowing all-round access for cleaning and machine inspections

ENVIRONMENTAL

- Machine flexibility means a smaller factory footprint, with fewer cables and air lines required to produce two types of fence
- Lower noise dB levels in the factory

ECONOMIC

- Fixed Lokk production at up to 70 BPM (stay wires per minute)
- Stay Lokk production at up to 80 BPM (stay wires per minute)
- Long roll length capability; roll size up to 1,300mm diameter / 1,500kg maximum
- Regenerative power convertors supply excess power back into the factory-wide grid
- Modular design requires less time to install and commission

Machine Specifications - FLM-10S

The FLM-10S can produce both Fixed Lokk and Stay Lokk fence types. Where specifications differ between knot types, both values are shown below.



Specification	Fixed Lokk	Stay Lokk
Machine Model	FLM-10S	
Control System	PLC Automation	
Site Power	Voltage: 380–480 VAC 3 Phase Up to 150 KW / Current 200–220 amps	
Site Air	Min. 6 bar – 30 ltr/min	
Maximum Fence Height	3,048mm (120")*	
Line Wire Spacings	Min. 76mm (3") – can be increased in increments or multiples of 12.7mm (½")	
Stay Wire Spacings	Min. 76mm (3") – increments of 25mm (1")	Min. 51mm (2") – increments of 25mm (1")
Line Wire Diameter	2.50mm (0.098")	
Stay Wire Diameter	2.50mm (0.098")	
Tie Wire Diameter	2.24mm (0.088")	2.50mm (0.098")
Production Speed (Max. BPM)	70 BPM at 3"–12" spacing 60 BPM at 18" & 24" spacing	80 BPM at 2"–12" spacing 60 BPM at 18" & 24" spacing
Maximum Roll Diameter	1,300mm (51.2")	
Maximum Roll Weight	1,500 kg (3,300 lbs)	

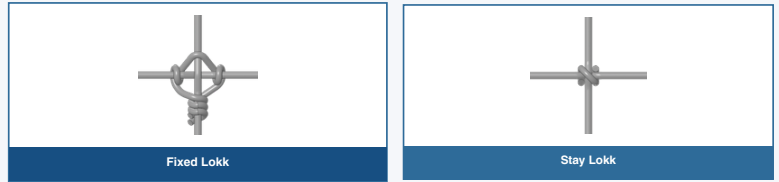
* Maximum combined width for dual fence: 2,844.8mm (112")

* For optimum Stay Lokk strength, stay wire tensile should be 850 MPa or higher.

Specifications can change upon request.

Machine Specifications - FLM-12S

The FLM-12S can produce both Fixed Lokk and Stay Lokk fence types. Where specifications differ between knot types, both values are shown below.



Specification	Fixed Lokk	Stay Lokk
Machine Model	FLM-10S	
Control System	PLC Automation	
Site Power	Voltage: 380–480 VAC 3 Phase Up to 150 KW / Current 200–220 amps	
Site Air	Min. 6 bar – 30 ltr/min	
Maximum Fence Height	3,658mm (144")*	
Line Wire Spacings	Min. 76mm (3") – can be increased in increments or multiples of 12.7mm (½")	
Stay Wire Spacings	Min. 76mm (3") – increments of 25mm (1")	Min. 51mm (2") – increments of 25mm (1")
Line Wire Diameter	2.50mm (0.098")	
Stay Wire Diameter	2.50mm (0.098")	
Tie Wire Diameter	2.24mm (0.088")	2.50mm (0.098")
Production Speed (Max. BPM)	70 BPM at 3"–12" spacing 60 BPM at 18" & 24" spacing	80 BPM at 2"–12" spacing 60 BPM at 18" & 24" spacing
Maximum Roll Diameter	1,300mm (51.2")	
Maximum Roll Weight	1,500 kg (3,300 lbs)	

* Maximum combined width for dual fence: 3,454mm (11'3")

* For optimum Stay Lokk strength, stay wire tensile should be 850 MPa or higher.

Specifications can change upon request.

Machine Options

The FLM-10S & FLM-12S can be configured with a range of optional features to suit specific production requirements. Contact us for pricing and availability.

Option	FLM-10S & FLM-12S
Dual Stay Wire Feed	✓
Extended Fence Ends	✓
Automatic Label Inserter	✓
Centre Hinge Twister (not available in NZ)	✓
Automatic Cut & Reload	✓
Remote Support (local internet connection required)	✓

For further details and pricing on any of the options above, please contact:

admin@umcinnovation.com

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Gallery

FLM-10 & FLM-12 Fence Lokk Machine - Production Facility & Machine Detail

