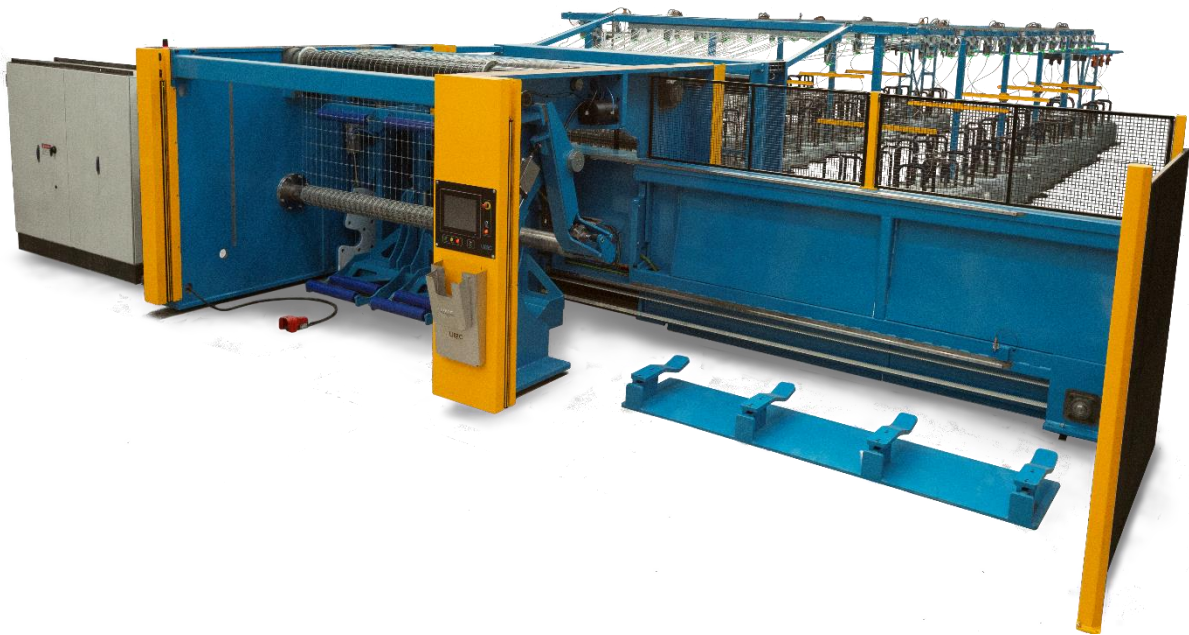




UMC Fence Lekk Machine (FLM)



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

FENCE LOKK MACHINE (FLM)

The UMC FLM Machine produces two types of knotted fence.



The patented **UMC Fence Lokk Machine** can produce **Fixed Lokk** or **Stay Lokk** type fence on one Machine with minimal downtime when changing between fence types.

This is the only Machine in the world capable of producing these two types of fence knots.

The Machine can be delivered with one set of tooling, for customers who only require one type of fence, or a second set of tooling can be purchased that will allow the machine to produce both types of fence knot.

There are two Machine sizes (widths); 6'ft (1829mm) wide Machine can be mechanically or electrically controlled
10'ft (3048mm) wide Machine is fully electrically controlled.

MACHINE FUNCTION

- The FLM Machine produces Fabricated Wire Fence in various roll sizes and knot types used for numerous applications from Livestock to Security and Exclusion Fencing.
- Dual end wire feed systems allow for production of two fences at the same time.
- Automated Crimp Drum allows for rapid changeovers when specification changes are required.
- Roll shuttle allows for a controlled motion to layer the fence before the windup. This prevents the knots or line wires from 'stacking' on top of each other, keeping the roll diameter compact.
- Finished rolls are automatically removed to the tie-off and pickup zone, allowing for continuous production. When the finished roll ends are secured, the roll clamp re-sets to the windup area.
- Reporting module provides for Machine displayed operational status including faults, run hours, mechanical history. Mobile device compatible with remote distribution of reports.

DESIGN OFFERS

Rapid change over time between fence spacings, and fence knot types

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 smaller factory footprint, fewer cables, air lines, required to produce two types of fence
- Lower noise dB levels in factory


Economic

- Fixed Lokk production at up to 50bpm (stay wires per minute) is a 25% increase in productivity over other machines
- Long roll length capability; roll size up to 1300mm diameter/1500kg maximum
- Regenerative power convertors supply excess power back into the factory wide grid
- Modular design requires less time to install and commission



UMC Fence Lekk Machine Specifications

Machine Model	FLM – 6M	FLM – 6S	FLM – 10S
Control System	Mechanical	Electrical	
Site Power	400 – 460 V / 50amp 3phase	400 – 460 V / 80amp 3phase	400 – 460 V / 100amp 3phase
Site Air	Min. 6 bar - 10 ltr/minute	Min. 6 bar - 30 ltr/minute	
Maximum Fence Height	1900mm (75")		3048mm (120")*
Maximum Line Wires		17 Lines	28 Lines
			26 Lines
Line Wire Spacing's		Minimum 76mm (3") - Can be increased in increments or multiples of 12.7mm (1/2")	
Stay Wire Spacing's		Minimum 76mm (3") - Can be increased in increments or multiples of 25mm (1")	
		Minimum 51mm (2") - Can be increased in increments or multiples of 25mm (1")	
Line Wire		2.50mm (0.098") 850-1390 MPa (50-90 Ton/sq. in.)	
Stay Wire		2.50mm (0.098") 525-850 MPa (34-55 Ton/sq. in.)	
Tie Wire		2.24mm (0.088") 400-525 MPa (32-34 Ton/sq. in.)	
		2.50mm (0.098") 400-850 MPa (32-55 Ton/sq. in.)	
Production Speeds - beats per minute (maximum possible)		40 BPM	30 BPM – 3" & 18" – 24" spacing's 50 BPM - 6" – 9" – 12" spacing's
			60 BPM - 18" & 24" spacing's 80 BPM - 2" - 12" spacing's
Maximum Roll Diameter	600mm (23.5")		1,300mm (51.2")
Maximum Roll Weight	500Kg (1,100lbs)		1,500Kg (3,300lbs)
<i>*Maximum combined width for dual fence 9' 4" (2844.8mm)</i>			
<i>Specifications can change upon request</i>			

	<h2 style="text-align: center;">UMC Fence Lakk Machine Options</h2>		
Machine Model	FLM – 6M	FLM – 6S	FLM – 10S
Dual Stay Wire Feed			✓
Extended Fence ends		✓	✓
Automatic label inserter		✓	✓
Centre Hinge Twister (not available in NZ)			✓
2.00mm (0.079") 14.5 ga	✓	✓	✓
Automatic Cut and Reload		✓	✓
Remote Support (local Internet Connection required)		✓	✓

FLM PHOTOS



View from finished product end



Fence layering onto Windup

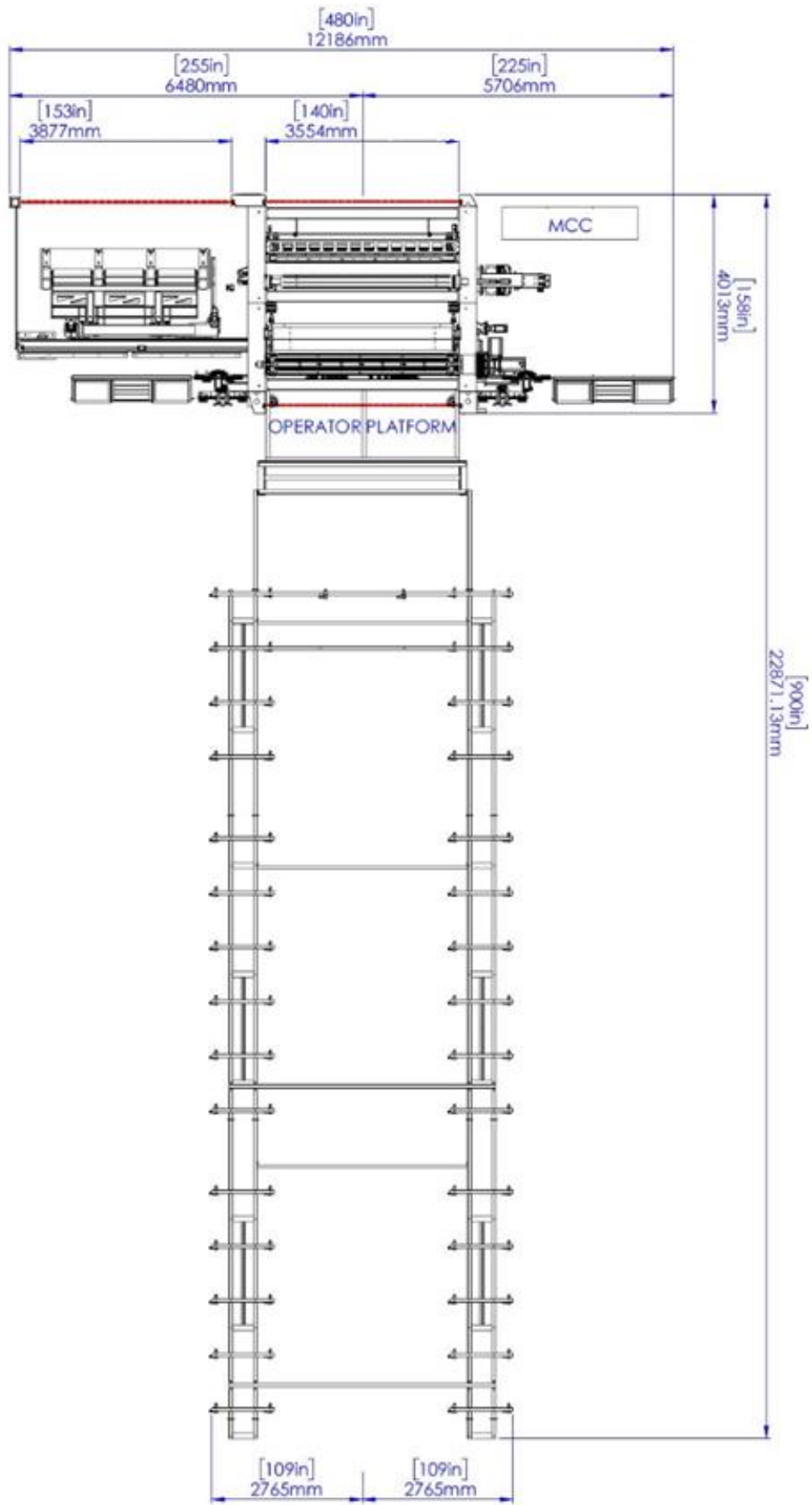


Windup with Roll Clamp behind



1500m/3300'ft (1.5km) long fence Roll

UMC Fence Lakk 10S Machine Footprint



ULLRICH MACHINERY COMPANY - HISTORY

UMC is a 4th generation privately-owned family company that has been involved in the wire industry for over 87 years.

Since 1932 the brands we started worldwide include; Hurricane Wire Product - Southfence, New Zealand - Solidlock USA and Canada - South Wire Australia - Fiji Wire Industries - New Guinea Wire Industries - Hurricane Wire UK.

At UMC we strive for the highest possible standards at all stages of production, from design through to delivery. We ensure that our machines are a sound investment, robust and reliable, giving years of service.

Our Design and Manufacturing Departments use the latest technology – 3D Modelling and CNC Operated Machine Tools, both for prototyping, and in the manufacturing process.

Our team are highly skilled engineers and specialists, committed to achieving the highest standards. This dedication to excellence and our continuing drive for improvement, ensures that all our products are of the finest quality.

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