

MarquipWardUnited

Model III-L Cutoff Knife



Key Features

- Cut capability greater than 400 MPM (1300 FPM)
- High performance, low energy consumption
- Helical-wound blades on cylindrical top and bottom knife cylinders
- Rigid cylinder design provides the longest time between blade times in the industry
- Significantly reduced noise emissions
- Simplified controls design reduces maintenance costs
- Parts are interchangeable with MarquipWardUnited Dual Rotary Shear (knife blades, cylinder motor, and drive)
- Excellent cut accuracy

Barry-Wehmiller

Model III-L Cutoff Knife

Superior Cut Length vs. Speed Performance

The MarquipWardUnited Model III-L Knife offers the performance and reliability that will enable improved profitability for any corrugator plant. Short Sheets can be cut at much higher speeds for a significant production increase.

The Series 50L Knife can be upgraded to the 100L configuration to meet future plant production demands.

High Performance with Lower Energy Consumption

High performance is achieved while reducing the power service requirement and reducing the typical energy consumption. The MarquipWardUnited Cut-off Knife will utilize power only at the average power rate, unlike other cutoff knives, which require very high-peak currents to power the knife during its acceleration phase. The average power consumption requirement for the MarquipWardUnited Knife is only 20 kVA per level.

Designed for Greater Levels of Reliability

A dramatic simplification of controls was made possible by the liquid motor technology. All the electronic enclosures are sealed. This protects controls from dust and moisture. There are no air filters to replace, there are no brushes or electro-mechanical contacts to wear. All motors are brushless and all velocity and position signals are provided with reliable resolvers.

Significantly Reduced Noise Emissions

The Model III-L Knife produces less than 80 decibels of noise at a distance of one meter from the side doors while running at speeds over 300 MPM (1000 FPM). The optional L2 Knife, which uses a water supply of approximately 9.5 liters per minute (2.5 gallons per minute) to cool the knife, is even quieter.

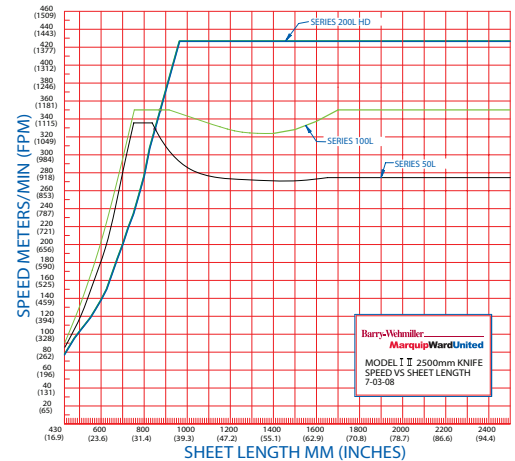
Additional Features

- Knife cylinder assembly is dynamically balanced
- Choice of sharp-tip, super sharp-tip, or serrated blades

Optional Features

- Belted knife outfeed section (standard with 200 L) – the extended knife outfeed conveyor consists of a series of wide driven belts which replaces the exit pull roll to enhance the shingling quality at high speeds. The Knife outfeed section is recommended for very heavy boards or speeds greater than 350 MPM (1150 FPM)
- Cut-to-mark capability – software and hardware to allow the knife to acquire and cut in register to single mark or marquipwardunited bar code marks.
 - Pattern recognition – allows the knife to cut on a unique portion of graphics when the single bar mark or marquipwardunited bar code marks are not used.
 - Skip mark – allows the knife to skip a mark or multiple marks.
 - Automatic Splice Correction.
- L2 cooling – the liquid-to-air heat exchanger and blower is replaced with a liquid-to-liquid heat exchanger. a local source of cooling water is required.

Knife Series	Corrugator Speed
50L	260 MPM (850 FPM)
100L	350 MPM (1150 FPM)
200L	400 MPM (1300 FPM)



MarquipWardUnited

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