

# Solid Wood Technologies<sup>SM</sup>

## M509

**KENTWOOD<sup>TM</sup>**  
Moulders



### A serious production moulder

Individual motors on all five spindles deliver generous HP to each spindle to provide production flexibility and high quality cuts. The large cutting circles enable processing of deeper profiles.

### Kentwood<sup>TM</sup> Moulders

The key to increased profits is the capability to cost effectively produce quality goods. Kentwood moulders enable you to produce better mouldings with improved efficiency, smoother surfaces, greater productivity, and trouble-free performance all at an affordable price. Stiles will help you discover solutions to your moulding challenges and answers for all of your specific applications.

### Solid Wood Technologies<sup>SM</sup>

Solid Wood Technologies is a direct response to customers who require machinery solutions for solid wood applications in addition to traditional panel processing. Utilizing over forty years of industry experience, Stiles aligns solutions, technologies and strategies to support their customer's needs. Solid Wood Technologies is part of the Total Production Solutions<sup>SM</sup> offered by Stiles and is supported by manufacturing expertise in machinery, engineering, integration, service and support.

### M509 Features

- 5 spindles
- 9-inch feed width
- 6 power driven upper rollers;  
2 power driven bottom rollers



- planer spindle
- right vertical spindle
- left vertical spindle
- top horizontal spindle
- bottom horizontal spindle

### Total Production Solutions<sup>SM</sup>

Advanced Equipment  
Intelligent Integration  
Experienced Consulting  
Unrivaled Services

[www.stilesmachinery.com](http://www.stilesmachinery.com)

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Your success is our business.

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## Moulders



Two-meter infeed table



Teco-Westinghouse motors



Digital readouts



Three pressure regulators

### Machine Base

- **Heavy Cast Iron Construction** allows maximum vibration absorption and provides an unsurpassed structure for support of chrome work table, spindle assemblies, and feed system.
- **Two-Meter Infeed Table** is heat treated with hardened chrome to increase durability and provide maximum stability while straightening and profiling slightly twisted and warped lumber.
- **Insulated Sound and Safety Enclosure** reduces operating noise levels and improves the safety of the work environment. When enclosure is opened, a safety trigger stops the motors within 4-5 seconds.

### Feed System

- **Carden Drive System** controls both upper and bottom feed rollers. The chainless drive system provides a stable feeding effect, increases durability, decreases maintenance, and greatly improves finish of hardwood lumber.
- **Heavy Duty Gearbox** provides powerful and accurate feeding performance to produce smooth mouldings. The feed rollers are driven through a combination of universal shafts and gearbox, ensuring no loss of power transmission.

### Spindles

- **High-Precision Spindles** are constructed with heat treated quality alloy steel to provide maximum cutting stability and accuracy with a tolerance of .002mm. Each spindle is driven by an individual motor to ensure maximum transfer of power even under any circumstance.
- **High-Efficiency Teco-Westinghouse Motors** are NEMA rated and UL/CE approved. The independent motors on all spindles come standard with brakes to stop in 4-5 seconds.
- **Convenient Spindle Adjustments** are easily accessed from the front of the machine with adjustment points at the same height to allow fast adjustment.
- **Accurate Pressure Display** on the front and rear pressure plate for the top spindle is accurately displayed by mechanical digital readouts.

### Electrical Control Panel

- **Programmable Controller** is well-organized and operator friendly. Featuring Klockner Moeller components, LED readout for feed rate, and independent push button controls for the feed motor and each spindle motor.
- **Three-Stage Pneumatic Pressure Regulators** compensate for variances in work piece thickness and allow the timber to pass through smoothly. All three pressure regulators can be individually adjusted.
- **Remote Pendant Set-Up** allows up and down adjustments of the feed beam as well as forward and reverse jog of the feed works while the operator is away from the control panel.

### M509 Specifications

Cutting capacity	. . . . .5" x 9"
Spindle speed	. . . . .6000 rpm
Feed motor power	. . . . .4 hp
Planer spindle motor power	. . . . .10 hp
Right vertical spindle motor power	. . . . .7.5 hp
Left vertical spindle motor power	. . . . .7.5 hp
Top horizontal spindle motor power	. . . . .15 hp
Bottom horizontal spindle motor power	. . . . .10 hp
Cutting circle of first bottom spindle	. . . . .125/160mm (min/max)
Cutting circles of all other spindles	. . . . .100/200mm (min/max)

Specifications are subject to change.

**Stiles Machinery Inc.**  
 3965 44th Street SE  
 Grand Rapids, MI 49512  
 p 616.698.7500  
 f 616.698.9411  
 rslater@stilesmachinery.com  
 www.stilesmachinery.com  
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