Offering the Ultimate in Design Excellence.
Quality Construction and Outstanding Performance.

KUANG YUNG MACHINERY CO., LTD.
283, SEC. 2, FENG SHYH ROAD, FENG YUAN DIST,
TAICHUNG 42081, TAIWAN
Tel: +886-4-25226151
Fax: +886-4-25243251
E-mail: info@kuangyung.com.tw
https://www.kuangyung.com.tw

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SMART MACHINE
AN EXPERT IN RIP SAWING

A 3D image scanning system with the
world's highest cost to performance ratio

Management System
ISO 9001:2015
www.tuv.com
ID 9105015182

Rip One System
Movable Rip Saw with 3D Image Scanning System

Vedio

Features Of Rip One System:

KUANG YUNG Movable Rip Saw Helps You Create Productivity and Profits

1. Ultra High Resolution Lens: Equipped with top and bottom 2 Megapixel color high Def Camera, which can capture data at 100 frames per second.
2. Max. Productivity: Processing 7~9 pieces of 3m long board per minute.
3. 3D Board Profiling: Using the exclusive technology to capture 3D contour of each piece of wood, including thickness, defective side, bark, wood knot and crack.
4. Automatic Fence Skew Function: It allows for cutting a bent or irregular side of wood to increase 2~3% of yield.

ADVANTAGES OF RIP ONE SYSTEM:

- The world's highest cost to performance ratio of movable rip saw with image scanning system. The machine price is only one half or one-third of European competitive models.
- The scanner is easy to install, calibrate, maintain and conduct trouble shooting, that dramatically upgrades machine utilization percentage and defect-free rate of product. Featuring long service life and without use of expensive LED lamp.
- Designed with over 20 years of experience in operation software interface, the programs of RIP ONE are stable and easy to operate. Even an inexperienced person can get started quickly. The system can be connected to users for remote processing, diagnosis and correction for machine problem.
- It can save material by 8~10% compared to manual material preparation, and 3~5% compared to a conventional optimization system.

POWERED ROLLERS WITH “U” SHAPED INFEED

- The powered rollers with “U” shaped material infeed mechanism can be operated by one or two workers. In case a malfunction occurs, the wood is easy to move away.

FEATURES OF RIP ONE OPERATION

- Powered rollers infeed system makes it convenient to load wood. In case a malfunction occurs, it is easy to move wood away.
- “U” shaped wood feed route in combination with the rear storage area, allowing for storing 4 pieces of wood. The operator position is safe without risk caused by wood kickback. Flexible manpower arrangement allows one operator to perform both workpiece infeed and collection jobs.
- With its powerful software operation, the system not only can accurately scan 3D sizes of wood, but also has the capability to identify side defect, bark, wood knot and crack.
- The computer provides size setting, optimization and simulation. Also, available to set up file management with different job sheets according to customers and tree species. Reports including throughput, production efficiency and yield can be obtained.

SPECIFICATIONS OF RIP ONE SYSTEM

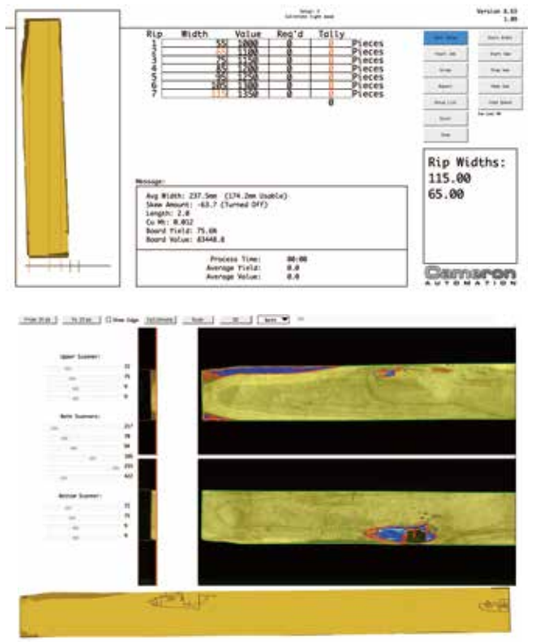
- Maximum productivity is about 7~9 pieces of wood with 3 meters long per minute (Depending on worker’s efficiency in placing wood and feed speed of rip saw)
- Max. length of wood: 4900 mm, Min. length of wood: 1200 mm
- Max. width 400 mm, Thickness range: 15~55 mm. (*Other size on request)

BOTH SIDE LEANS SCANNING

- 2 Sides Wood Scanning: This machine is equipped with top and bottom 2 Megapixel color high Def Camera, which can capture data at 100 frames per second.

AUTOMATIC FENCE SKEW FUNCTION

- Automatic Skew Function: This function allows for cutting a bent or irregular side of wood to increase 2~3% of yield.



OPERATION SCREEN

- The software interface is easy to operate. Also, easy to learn and understand.

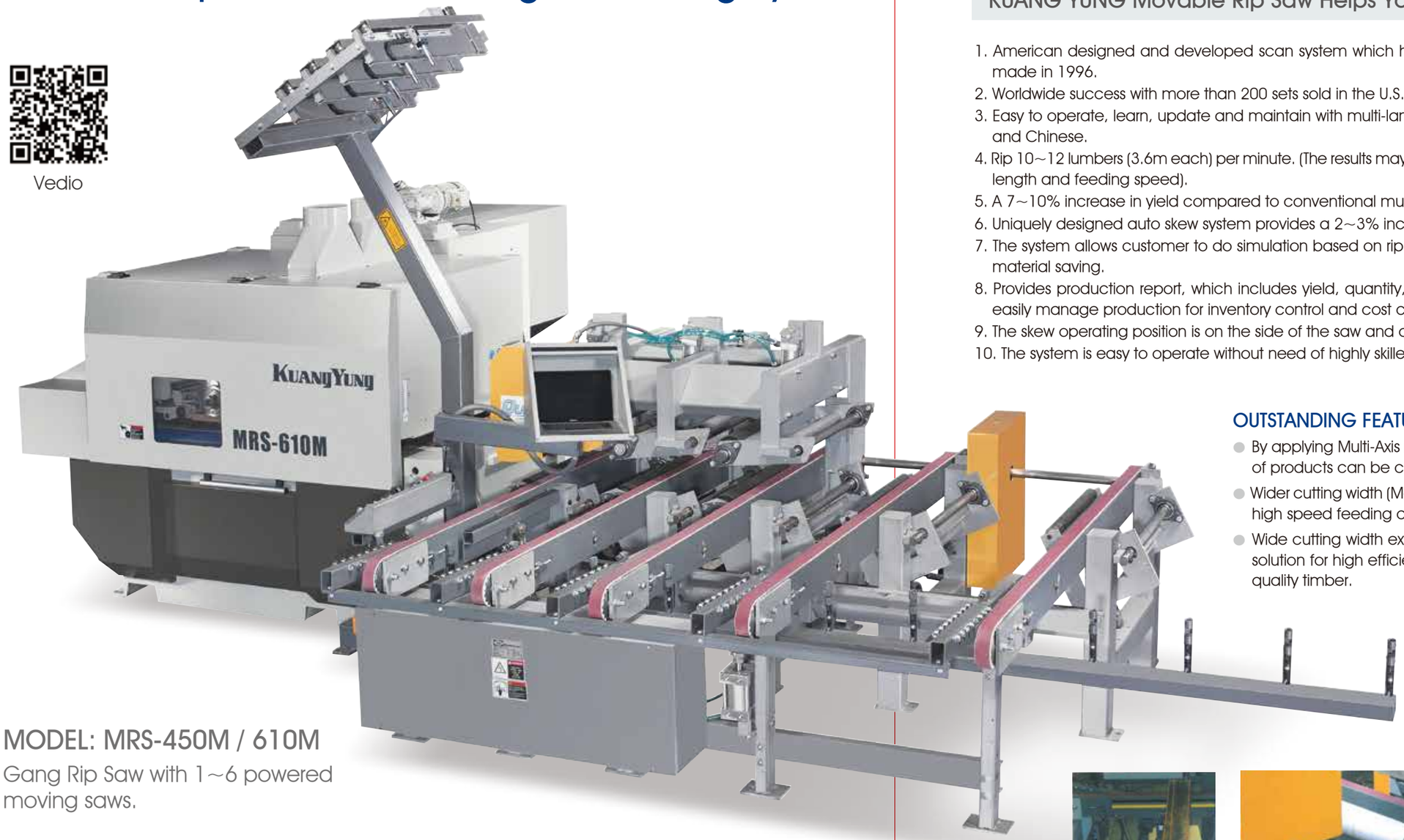
ADVANCED SCAN SETTING

- To suit various species of wood, the operator may use the built-in advanced parameters to adjust lens and calibrate. All data can be saved in files and read when required.

Quick-Rip System

Movable Rip Saw with 2D Image Scanning System

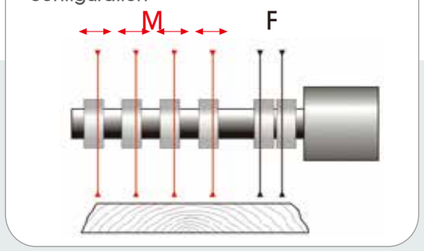
Vedio



MODEL: MRS-450M / 610M

Gang Rip Saw with 1~6 powered moving saws.

Four (4) movable and two (2) fixed blade configuration



THE WORLD'S INNOVATIVE AUTOMATIC WOOD SKEW DEVICE

- The automatic skew device automatically adjusts wood to the appropriate angle for minimum off fall (cutting waste) on its both sides (Without using fence).
- Board yield increases by 2~3%.

Features of Quick-Rip System:

KUANG YUNG Movable Rip Saw Helps You Create Productivity and Profits

1. American designed and developed scan system which has decades of experience since the first system made in 1996.
2. Worldwide success with more than 200 sets sold in the U.S.A., Europe and Asia.
3. Easy to operate, learn, update and maintain with multi-language window operating system such as English and Chinese.
4. Rip 10~12 lumbers (3.6m each) per minute. (The results may vary according to operator performance, timber length and feeding speed).
5. A 7~10% increase in yield compared to conventional multiple rip saw.
6. Uniquely designed auto skew system provides a 2~3% increase in yield compared to original fixed fence.
7. The system allows customer to do simulation based on rip width, giving the best saw width combination for material saving.
8. Provides production report, which includes yield, quantity, total length, and cubic feet, and allows user to easily manage production for inventory control and cost calculation.
9. The skew operating position is on the side of the saw and out of harm's way from kickback.
10. The system is easy to operate without need of highly skilled technician.

OUTSTANDING FEATURES THAT CREATE MORE VALUE

- By applying Multi-Axis (Max: 6 axes) moving saw design, different widths of products can be completed in one cut.
- Wider cutting width (Max: 450 / 610mm) with powerful spindle motor and high speed feeding chain.
- Wide cutting width extends application range, which provides the best solution for high efficiency and cutting optimization, especially for high quality timber.

A. Wood is bent

B. Automatic skew device picks up wood

C. Wood has been skewed for the maximum yield.

COMPREHENSIVE LUBRICATION SYSTEM

- This system includes an automatic forced mechanical lubricator (right) for feed chain and a manual central lubricator (left) for movable saw mechanism.
- The mechanical lubricator ensures proper lubrication for the caterpillar chain and rail. Lubricant flow is automatically varied with the feed speed of caterpillar chain. If the oil runs out, an alarm lamp lights up.
- The manual central lubricator provides proper lubricant to the ball screws which ensure that all movable saws operate smoothly.

ANTI-KICKBACK GUARDING SYSTEM

- Hardened steel anti-kickback finger system (2 upper rows and 1 bottom row) are engineered for greater operator safety. One row of anti-backward fingers is positioned in front of first roller to prevent the wood from being pushed back during cutting.
- A specially designed roller, located in front of the first steel anti-kickback fingers, ensures a smoother feeding.

PNEUMATIC FEED ROLLERS

- The complete feed rollers are air-loaded to ensure outstanding stability during cutting and smooth feeding effect.
- Pressure for each feed roller can be individually adjusted from the centralized pressure regulators.
- Pressure for each feed roller is indicated by individual pressure gauge.

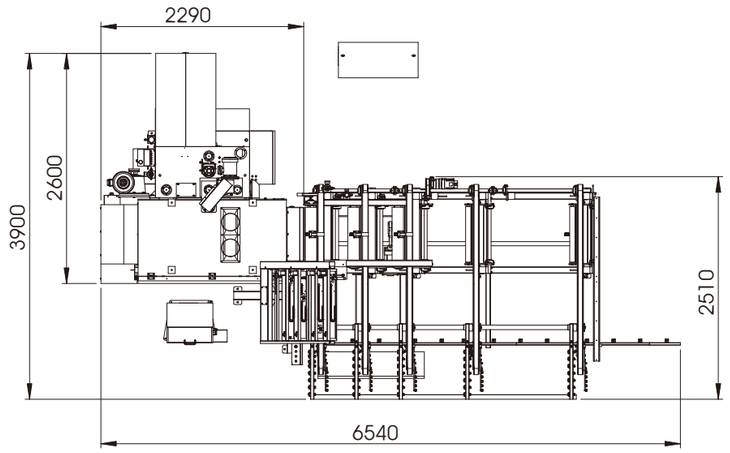
SPECIAL PRESSURE DEVICE (PATENTED)

- The specially designed pressure device holds wood more stable. As a result, wood can be used directly for composing after cutting.

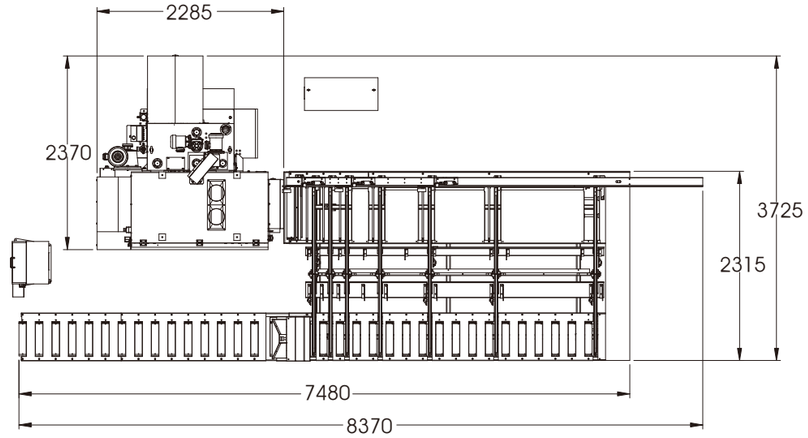
SAW ARBOR SUPPORT

- Maximum stability of saw arbor is achieved through the firm support at end.

MRS-450M With QuickRip Dimensions



MRS-450M With RipOne Dimensions



2.2~2.6 mm ULTRATHIN SAW BLADE (PATENTED)

- Ultrathin patented saw blade (2.2~2.6 mm) is able to do panel joint ripping.
- Max. ripping speed reaches 60m/min.

EASY TO REPLACE CHAIN BLOCK (OPTIONAL)

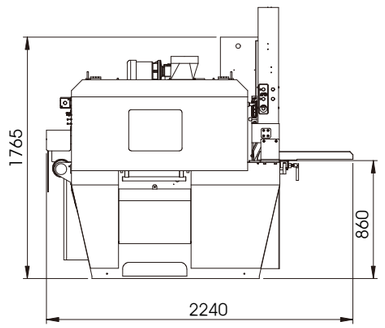
- A special chain block design. In case the chain pad surface is worm out, replacement is simple and quick.
- The replaceable chain pads are made of special wear-resistant rubber and has a long service life. No chain tooth marking leaves on the contact surface of the wood.

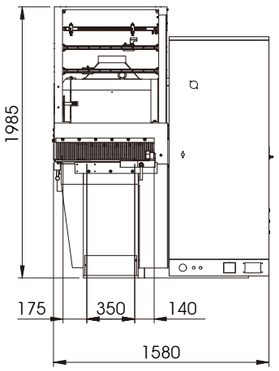
MODEL: MRS-340M / 340M2

Gang Rip Saw with 1～2 powered moving saws.

SPECIFICATIONS:	MRS-340M/MRS-340M2
Max. cutting thickness (standard)	(using Ø14" saw blade) 100 mm
	(using Ø12" saw blade) 75 mm
Number of movable saws	1 / 2
Max. cutting width	340 mm (13.4")
Max. material width	665 mm (26")
Min. material length	550 mm (22")
Max. sawblade diameter	ø355 mm (14")
Min. sawblade diameter	ø305 mm (12")
Sawblade bore	ø90 mm
Saw arbor diameter	ø70 mm
Saw arbor speed	4200 rpm (50 HZ) / 4500 rpm (60 HZ)
Pressure roll motor	0.5 HP
Saw arbor motor	50 HP (60 HP)
Feed motor	3 HP
Variable feed speed	5-40 M/min
Dust hood dia.	ø200 mm (8") x 1 / ø100 mm (4") x 1
Table height from floor (H)	860 mm (33.85")
Table area (L x W)	1525 x 595 mm
Overall dimensions (L x W x H)	2240 x 1580 x 1985 mm
Net weight	2200 kgs

* We reserve the right to amend any of the above specifications without prior notice.





MODEL: MRS-450M / 610M

Gang Rip Saw with 1～6 powered moving saws.

SPECIFICATIONS:	MRS-450M	MRS-610M
Max. cutting thickness	(12" blade) 75 mm / (14" blade) 100 mm	
Number of movable saws	3 (4-optional)	4 (6-optional)
Max. material width of pass-through	875 mm	1040 mm
Max. cutting width	450 mm	610 mm
Min. material length	610 mm	
Max. sawblade diameter	Ø355 mm (14")	
Min. sawblade diameter	Ø305 mm (12")	
Sawblade bore	Ø90 mm	
Saw arbor diameter	Ø70 mm	
Saw arbor speed	4200 rpm (50HZ) / 4500 rpm (60HZ)	
Saw arbor motor	50, 60, 75, 100 or 125HP	
Feed motor	5 HP	
Variable feed speed	8～60 M/min	
Dust hole diameter	Ø100 mm x 1, Ø200 mm x 2	
Table height from floor (H)	855 mm	
Table area (L x W)	2050 x 750 mm	2050 x 900 mm
Overall dimensions (L x W x H)	2290 x 2600 x 1950 mm	2290 x 2630 x 1950 mm
Net weight	5300 kgs	5600 kgs

* We reserve the right to amend any of the above specifications without prior notice.