

CE ISO-9001 TÜV NORD



Super Thundermac series

LMC

LEADERMAC

LMC 2021.05



Leadership Through Performance and Reliability

Super Thundermac series



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LEADERMAC MACHINERY CO., LTD.

Quality Features Add More Value to Your Production



Extensive Sales Net Around the Globe



LEADERMAC 4-SIDE MOULDERS HELP CUSTOMERS STAY COMPETITIVE

Quality Features Add More Value to Your Production



Established in 1972, Leadermac Machinery Co., Ltd. has more than 50 years of experience in R & D, design and manufacturing of 4-side moulders. Over the years, we have remained dedicated to the constant development of higher performance machines to help our customers stay competitive.



WIDE RANGE OF APPLICATIONS

Leadermac offers a wide variety of 4-side moulders for machining various wood products.

- Finger-joint wood
- Wood flooring
- Solid wood doors
- Cabinets
- Desks
- Chairs
- Stairs
- Office furniture
- Beams
- Wallboards
- Picture frames

series

Super Thundermac

Leadership Through Performance and Reliability

LEADERMAC Super Thundermac The Leading Edge in 4-side Moulding

The concept behind Leadermac is to design and manufacture the most productive, most fine finish and extremely high accuracy moulders to create a competitive edge for our customers. With years of research and development, the new Super Thundermac series has been successfully developed to offer production speed beyond your expectations. With the Leadermac Super Thundermac, you can reduce your production costs, greatly shorten your delivery time and create more profits.



Super Thundermac 4-Spindle 4-Side Moulder

Gives You the Competitive Edge in Productivity and Accuracy

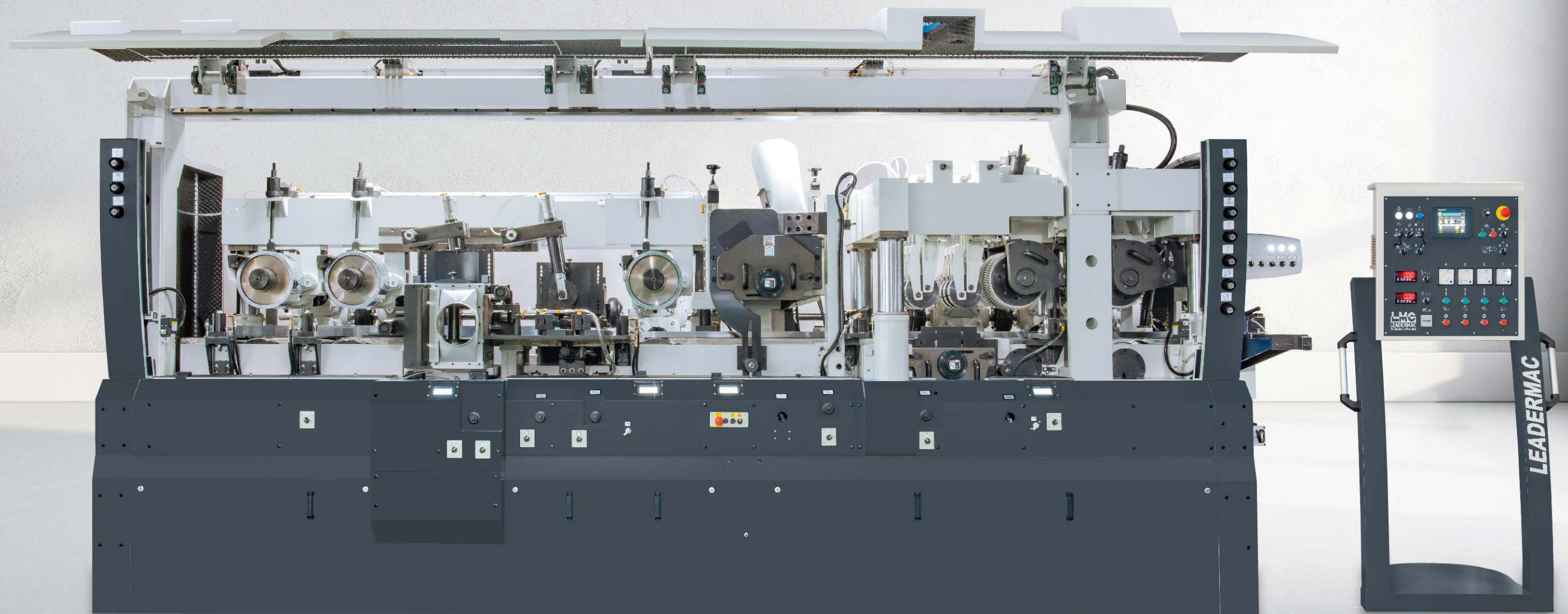
Built for super-high production requirements, the Super Thundermac series of 4-side moulder can bring your production speed to a new level.

The LEADERMAC Super Thundermac series features 200m/min. feed speed as standard. Higher feed speeds of 300m/min. are also available. This, combined with a 6000 RPM spindle speed, makes the moulder exceptionally ideal for high speed cutting operations. The entire machine is ruggedly and compactly constructed for extra high stability during high speed operation. In addition, the Super Thundermac is equipped with a user-friendly PLC control combined with touch-sensing for maximum operational convenience.



For All Your Woodworking Applications

Choice of Machine Models - from Super Thundermac LMC-430ST (4-spindle) to LMC-1030ST (10-spindle).

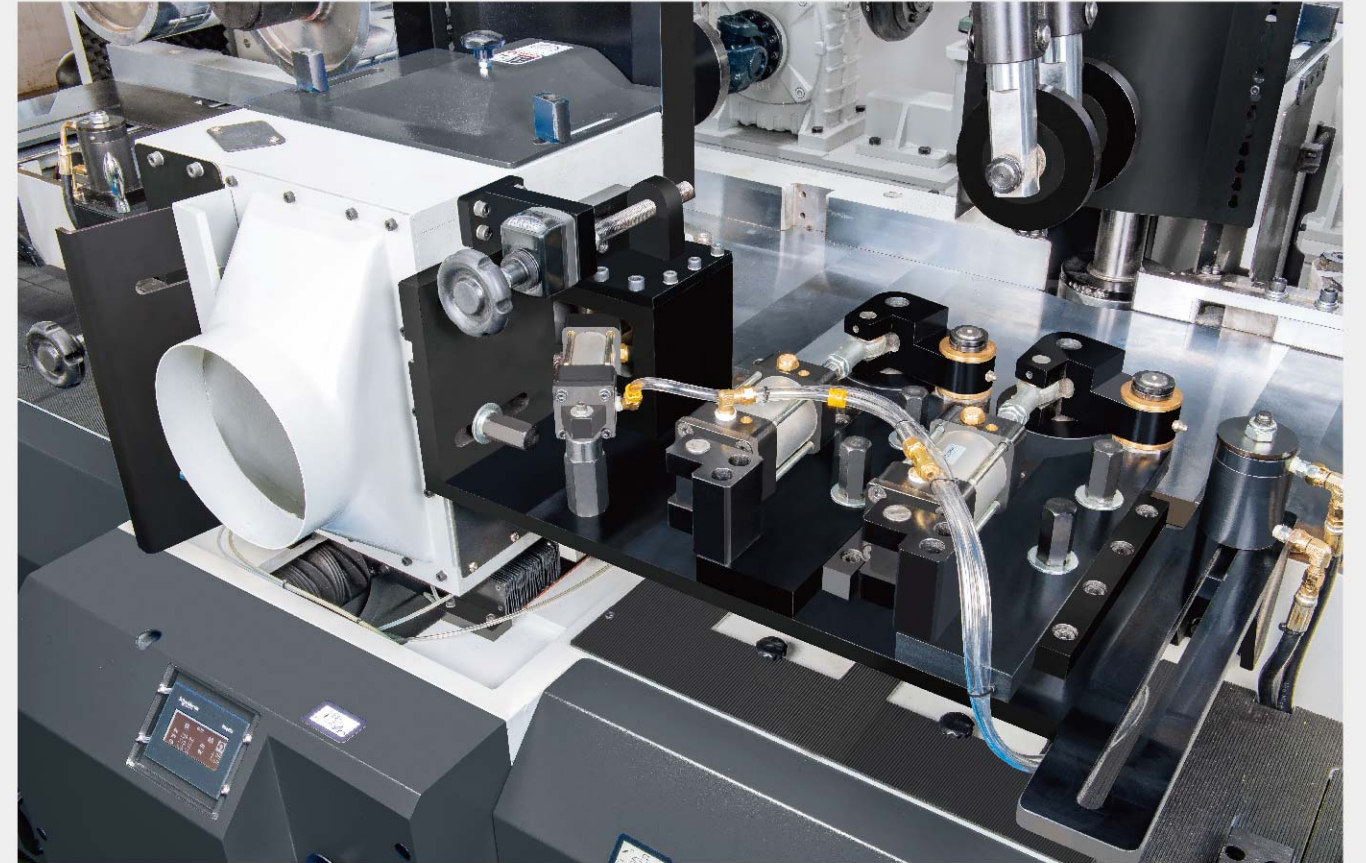




PNEUMATICALLY ACTUATED FRONT DOOR

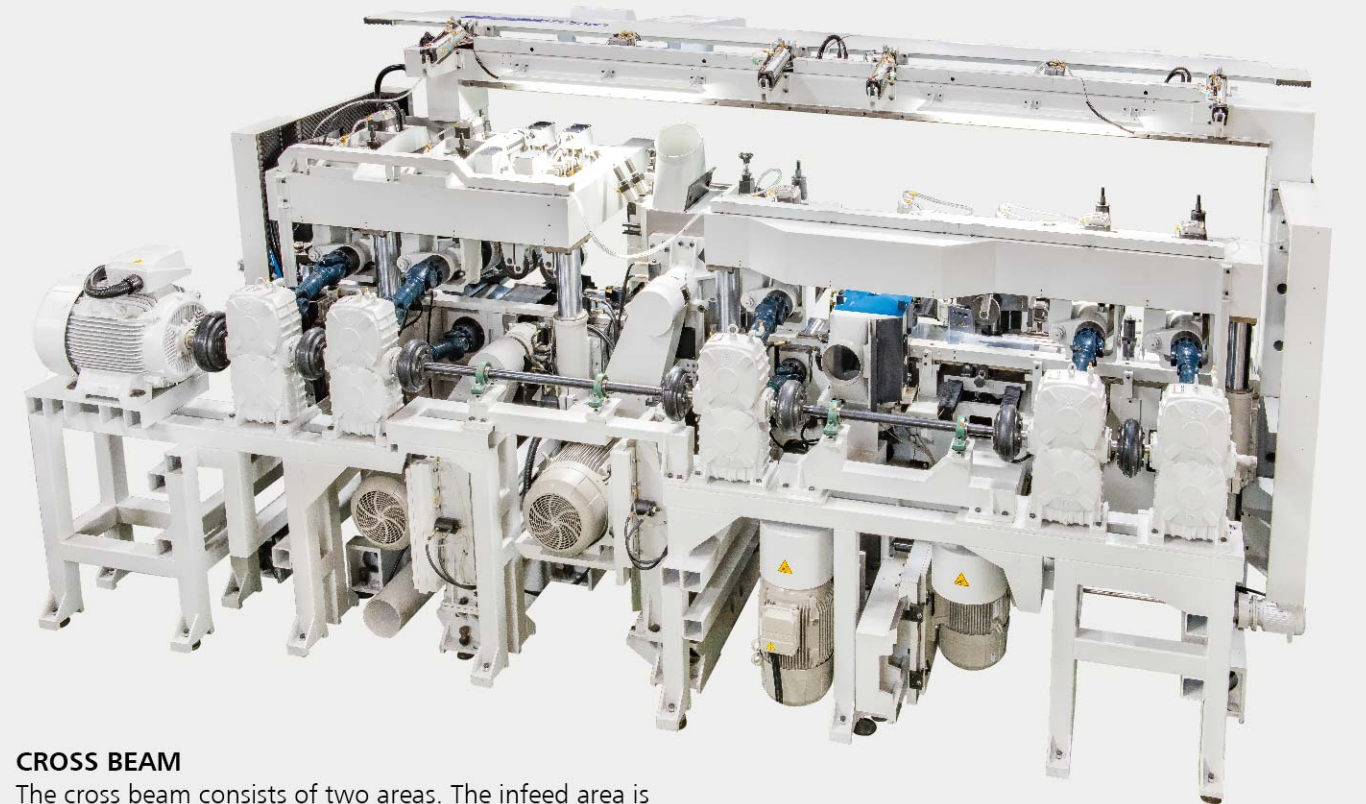
The front door of the machine is pneumatically controlled and is easy to open, making it convenient for the operator to inspect the machine and conduct maintenance.

Delivering Unparalleled Speed and Power in a High-Efficiency Automated System



OUTSTANDING FEATURES:

- All moulders awarded with CE certification.
- Faster feed speeds of up to 200 meters a minute (656 fpm) are standard - to 300 mpm (984 fpm) - optional.
- Adjustment of each spindle can be easily performed using the front adjustment level.
- Exclusive, separate adjustment of the vertical spindles and the support tables allows the tables to be positioned extremely close to the cutterheads for added cutting stability.
- Each spindle is driven by an individual motor for powerful moulding and easy control.
- Multiple pneumatic pressure of the feed rolls can be easily set to provide an outstanding feeding effect.
- Table surfaces are hard-chrome plated for maximum wear resistance.
- All manually adjusted and turning parts are housed in dry grease lubricated bearings for oil-free lubrication.
- Automatic lubricator is provided to supply oil to the feed tables.
- Extra Heavy machine frame is specially heat treated for maximum stability and rigidity by standard configuration.
- The powered outfeed rollers provide stable and smooth workpiece outfeed even for especially thin or smooth materials. The rollers remain perfectly parallel even after long-term use.
- Mechanical digital readouts for the pressure elements of top spindle.
- Sectional Chip Breaker Assembly in front of top spindle.
- Finest Alloy Steel Spindles and housings with 2 sets of Ultra Precision Duplex Bearings in each spindle. All are permanently grease lubricated.
- Built in Straight and Profile jointers provide accurate operation with high quality finish (Opt.)



CROSS BEAM

The cross beam consists of two areas. The infeed area is supported by 4 posts to ensure stability.



Speed Up Your Moulding Operations with the Latest Technological Breakthroughs from LEADERMAC.

POWERED INFEED ROLLER

The smooth initial feeding of the stock is achieved by means of the independently powered top and bottom infeed rolls.

SELF ACTUATING FIRST FEED ROLLER

The first feed roller (with built-in clutch) is powered, but with high speed infeed, the roller will run freely, eliminating potential damage to the workpiece and machine. This allows for smooth operation with exceptionally high feed speeds.

DESIGNED FOR PARAMOUNT STABILITY

Powerful, heavy-duty pneumatic side and pressure shoes for the left spindle provide extremely stable pressure for high-speed operations. A pneumatic top pressure roller in front of the right vertical spindle ensures constant stock feed.



Heavy-duty Hydraulic Clamping Support

Delivering Unparalleled Speed and Power in a High-Efficiency Automated System



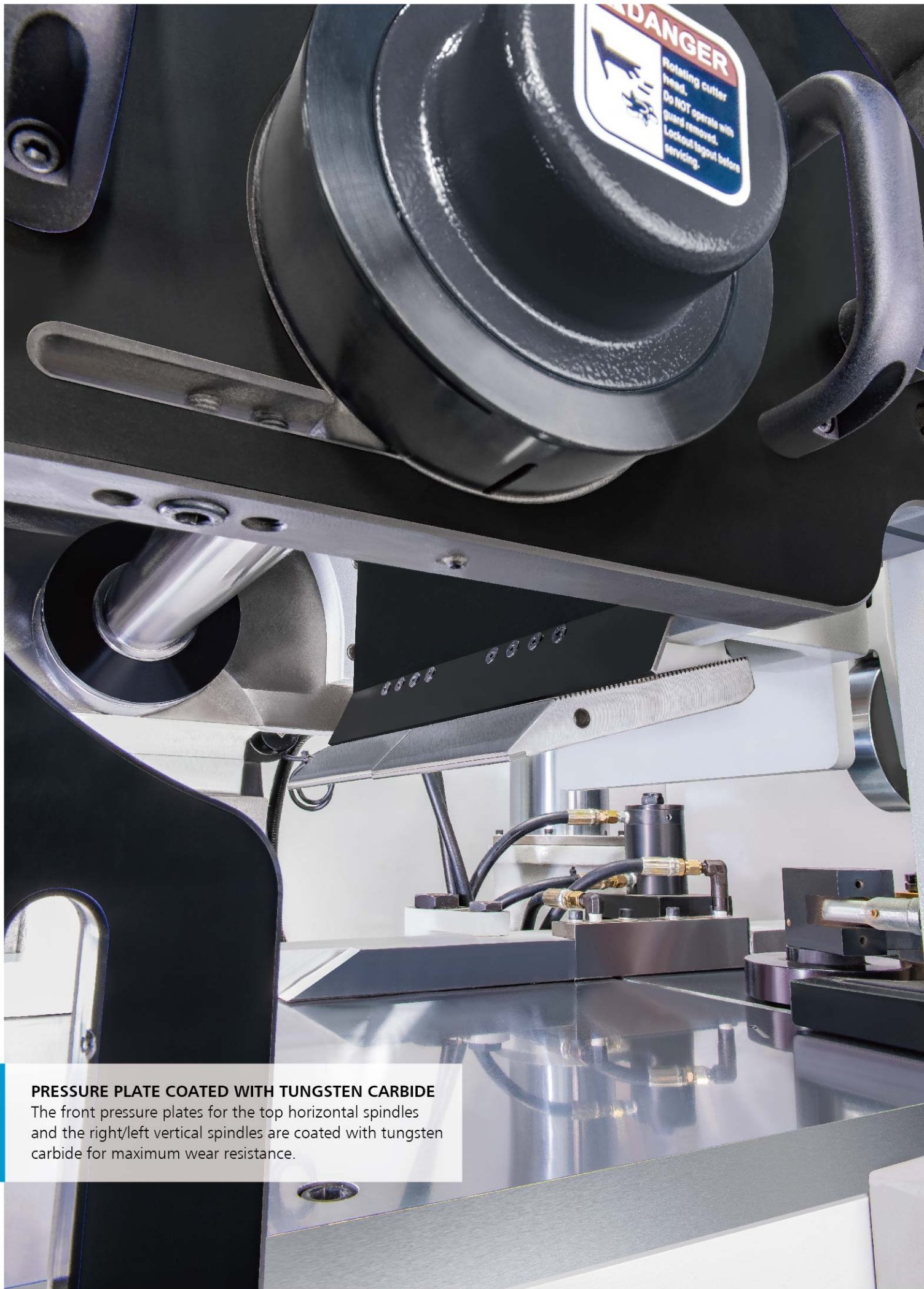
INFEED FENCE COOLING (OPT.)

The infeed fence is cooled by a water cooler, which can effectively avoid thermal growth and deformation on the infeed fence during high speed machining.



AIR SPRING LOADED PRESSURE WHEEL

The side pressure wheel at the infeed end of the machine is loaded by air spring for consistent holding pressure, which ensures stable and smooth infeed of wood.



PRESSURE PLATE COATED WITH TUNGSTEN CARBIDE
 The front pressure plates for the top horizontal spindles and the right/left vertical spindles are coated with tungsten carbide for maximum wear resistance.

State-of-the-Art Control Perfectly Designed to Optimize Moulding Efficiency

RIGID, PRECISION SPINDLE 6,000 RPM STANDARD

- The spindle is precision machined from high quality steel, specially heat treated, precision ground and dynamically balanced, assuring extremely smooth running, high cutting accuracy and high stability. Each spindle is water-proof and dust-proof to ensure long service life.

CENTRALIZED LUBRICATION POINTS

Greasing to all critical parts is conveniently made by the centralized arrangement of lubrication points.

DUST WIPER

Top and bottom feed rollers are equipped with dust wipers to remove dust from the feed rollers.





The Power and Precision for World-class Production Quality

Quality Proven by Worldwide Customers

Designed with High Production in Mind

The LEADERMAC 4-side molder is a compact power package that integrates high speed and heavy cutting operations, high accuracy, plus minimum trouble to maximize its impressive cutting capabilities. To ensure outstanding cutting results, the 6,000 rpm high speed spindle is carefully manufactured and tested before assembling. High feed speed up to 200 M/min. is driven by a frequency inverted motor, providing variable speed change. Our objective is to enhance each 4-side molder from LEADERMAC in order to upgrade your throughput and create more profits.

SIDE PRESSURE PLATE CLAMPED HYDRAULICALLY

The side pressure plate is clamped securely by hydraulic power.

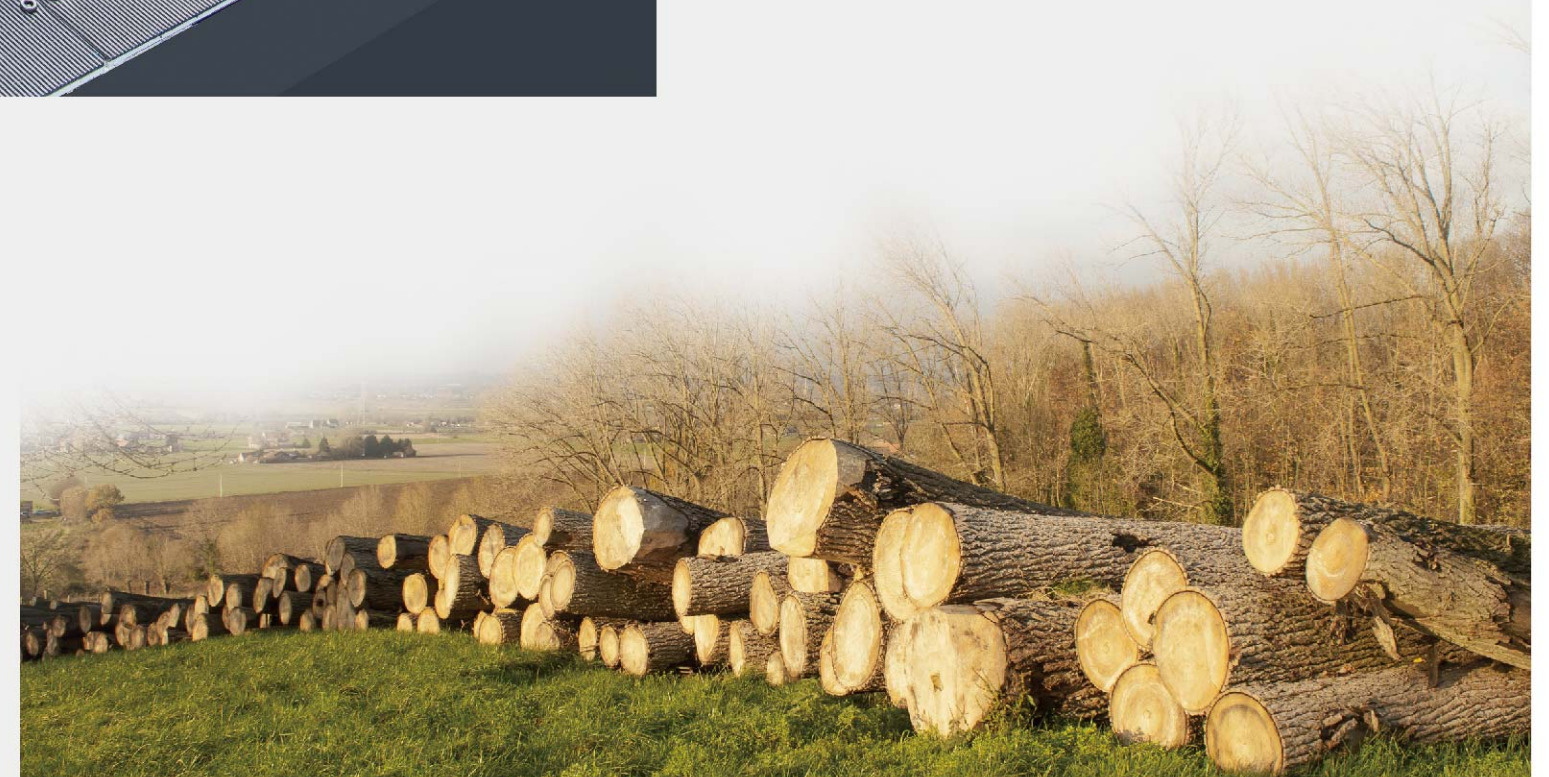


POWERED TOP AND BOTTOM FEED ROLLERS

Top and bottom feed rollers are powered for powerful and smooth feeding effect.

LEADERMAC Provides Solutions

With our extensive experience in the furniture industry and personalized services, Leadermac's highly experienced engineers will help you get the total knowledge you need for your molding jobs. Our service staff is always ready to help analyze your production problems and requirements and provide cost saving opportunities.





BALLSCREW AND LINEAR GUIDEWAY

Adjustment for all spindles is transmitted through ballscrews in combination with movement on linear guideways for smooth movement and accurate positioning.

Digital readouts are provided for accurate reading of adjustment amount.



CONTROLLER

The speed is VFD Inverter controlled, and all electrical components meet CE, UL & CSA standards.



EASYSET CONTROLLER (OPT.)

Touch Screen Control

- 5.7" HMI (Memory 200 sets)
- Automatic machine quick setup
- Easy and powerful functionality
- Workpiece settings on left and top axes as desired
- The width and thickness setting can be easily set using the programmable controller
- The desired values for thickness are displayed on and LED readout



SMARTSET CONTROLLER(OPT.)

Touch Screen Control.

- 9" HMI (Memory 500 sets)
- Automatic machine quick setup
- Easy and powerful functionality
- Setworks on any axis as desired
- The Motorized Axes: derived by inverter, transmitted by ball screw, feedback by encoder
- The desired values for radial and axial are displayed on HMI.



PROSET CONTROLLER (OPT.)

- 19" panel PC
- Product library (1000 sets)
- Knife library (10,000 sets)
- Automatic machine quick setup
- Easy and powerful functionality
- Workpiece settings on any axis as desired
- The width and thickness settings can be easily set using the programmable controller
- All axes are equipped with ballscrews and rotary encoders for feedback position control, providing high positioning accuracy and better cutting quality
- The desired values for width and thickness can be conveniently pre-set and are displayed on HMI

A Wide Range of Spindle Configurations

(Other configurations available on request)



Spindle configuration

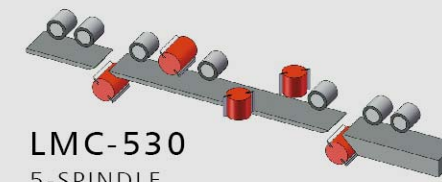
STANDARD EQUIPMENT:	Standard Base Equipment	Available Options
Working width	30-300 mm (1.18"-11.8")	
Working Thickness	10-150 mm (0.4"-5.9")	
Number of spindles, min-max	4 to 10	
Motor capacity per spindle	37 kw / 50 HP	45 kw / 60 HP
Spindle speed	6,000 RPM	
Spindle diameter	60 mm (2 3/8")	
Head cutting circle, 1st bottom spindle, min-max	160-260 mm (6.3"-10.24")	200-300 mm (7.87"-11.8")
Head cutting circle, vertical spindles, left, min-max	160-260 mm (6.3"-10.24")	200-300 mm (7.87"-11.8")
Head cutting circle, vertical spindles, right, min-max	160-260 mm (6.3"-10.24")	200-300 mm (7.87"-11.8")
Head cutting circle, horizontal spindles, top, min-max	160-260 mm (6.3"-10.24")	200-300 mm (7.87"-11.8")
Head cutting circle, horizontal spindles, 2nd/3rd bottom, min-max	160-260 mm (6.3"-10.24")	200-300 mm (7.87"-11.8")
Standard Feed motor	56 kw / 75 HP	75 kw / 100 HP
Feed speed, infinitely variable by frequency driven motor	30-200 m/min (98-656 fpm)	30-300 m/min
Feed roller diameter	300 mm (11.8")	
Feed roller width	4 x 50 mm (2 x 1.97")	
Pneumatic pressure for feed rollers, max	6 bar	
Adjustment range for infeed table and edge-jointing fence	10 mm (0.4")	
Adjustment range of vertical spindles (axial)	100 mm (3.94")	
Adjustment range of horizontal spindles (axial)	40 mm (1.58")	
Length of the straightening (moulder infeed) table	1.57 M	
Diameter of dust hood for vertical spindle	Ø200 mm (7.87")	
Diameter of dust hood for horizontal spindle (top / bottom)	Ø250 mm (9.84") / Ø200 mm (7.87")	

● All specifications, dimensions and design characteristics are subject to change without notice.

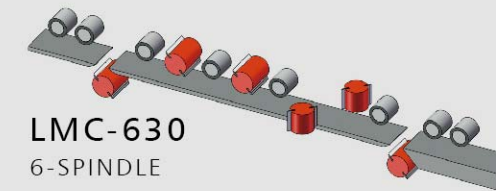
○ Standard

OPTIONAL EQUIPMENT:

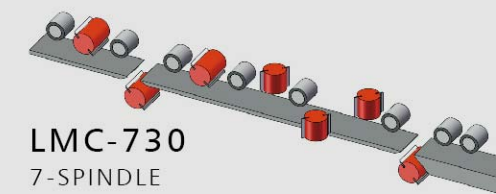
Fence & table with cooling system	Straight jointer(s)
Maximum working thickness 180 mm (7.1")	Profile jointer(s)
Increased motor horsepower available	



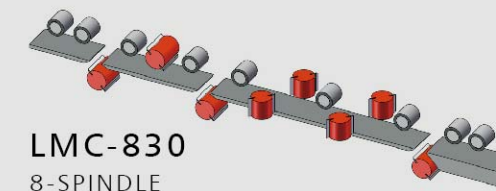
LMC-530
5-SPINDLE



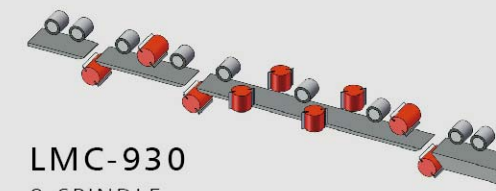
LMC-630
6-SPINDLE



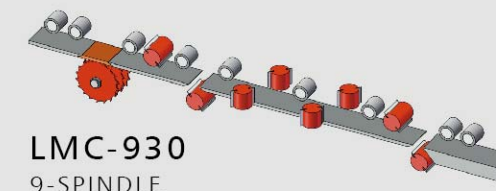
LMC-730
7-SPINDLE



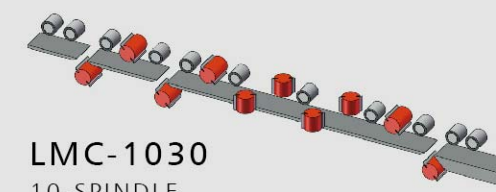
LMC-830
8-SPINDLE



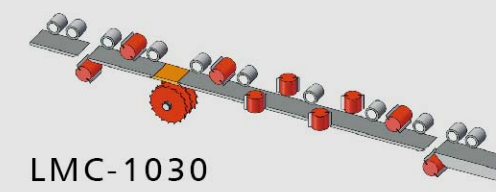
LMC-930
9-SPINDLE



LMC-930
9-SPINDLE



LMC-1030
10-SPINDLE



LMC-1030
10-SPINDLE

Quality Features Add More Value to Your Production

Leadership Through Performance and Reliability

LEADERMAC's wide variety of 4-side moulders have all the very latest technology for increased productivity, product quality & reliability. These Heavy Duty Moulders are designed to provide fast cutting speeds and highest quality & accuracy. These machines are precision manufactured by our highly skilled technicians - plus Leadermac service, training, and moulding know-how is offered with each moulder. No matter what your moulding jobs call for, there is a Leadermac 4-side moulder that's right for you.

