

CE ISO-9001 TÜV NORD

uPower Series

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LEADERMAC MACHINERY CO., LTD.

No. 20, Lane 662, Sec 1, Sha-Tien Rd., Dadu District, Taichung, Taiwan 432403

TEL: +886-4-2693-7599

<https://www.leadermac.com>

FAX: +886-4-2693-7588 / 2693-7589

e-mail: info@leadermac.com • sales@leadermac.com



Leadership through Performance
and Reliability

uPower Series



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LEADERMAC MACHINERY CO., LTD.

Quality Features Add More Value to Your Production

series uPower

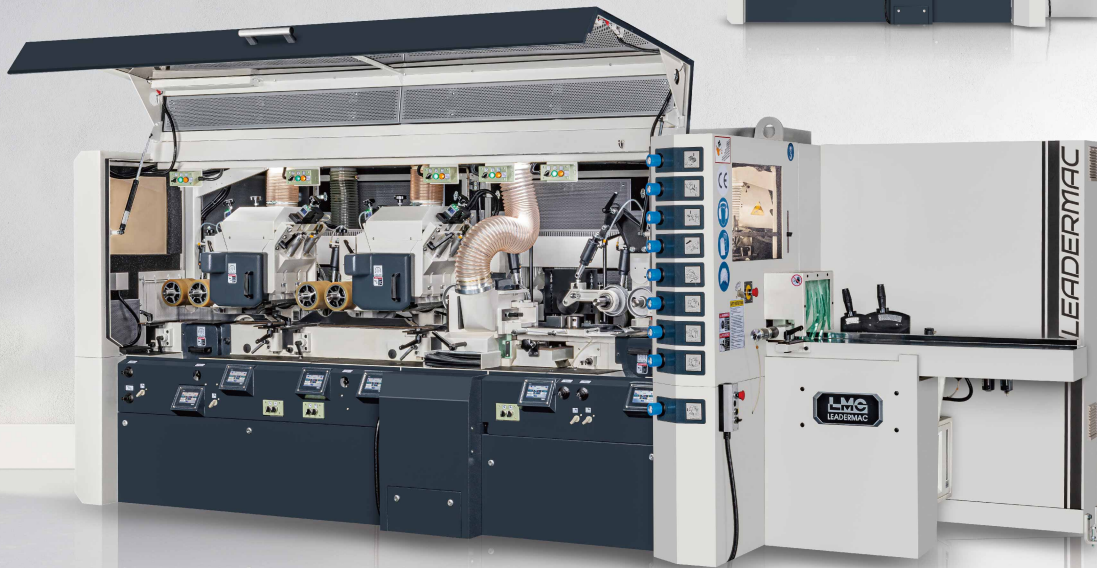
LEADERMAC uPower Series

Leadermac's new generation of power series is a highly efficient-side moulder and ideally suited to accurate moulding applications with high productivity.

Leadership Through Performance and Reliability



Leadermac uPower Series 4-Side Moulder INNOVATIVE DESIGN CONCEPTS



Through continuous research and improvement, Leadermac has launched a new generation of its uPower Series 4-side moulder. These modern design moulders are developed to meet the market demands for high level automation. The uPower Series provides a high feed rate of 30m / min. A high speed HSK 85W spindle is avail This series of machines creates a superior surface finish without need for sanding on planed and profiled surfaces. They also have digital readouts for spindle and chip breaker shoes, as well as pressure shoes. A user-friendly controller is installed for easier operation.

Outdoing the competition with easier operation and faster tool changes

- Easier Operation
- Faster Tool Changes

Profiled Cutterhead

The HSK Spindle is mounted with a profiled cutterhead.

Air Blast for Cleaning Spindle

A powerful air blast actuates to clean the spindle taper before the tool holder is clamped. This results in high circularity accuracy of the tool holder and cutting tool.

Tool Holder Lock / Unlock

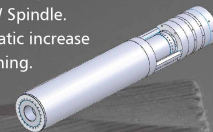
The tool holder is locked or unlocked by simply pressing a switch. This optional feature saves considerable time during tool changes.

Straight Cutterhead

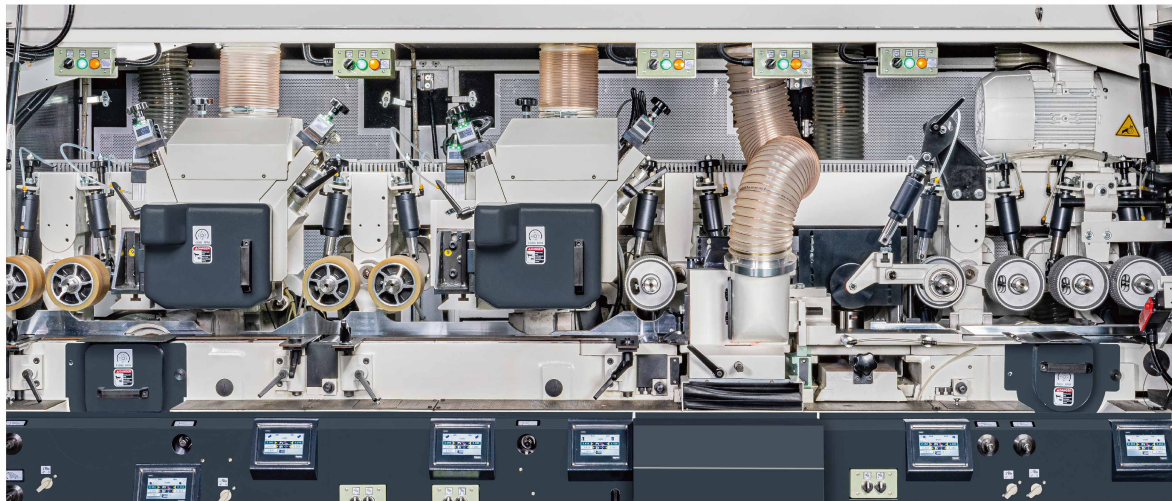
The HSK Spindle is mounted with a straight cutterhead.

8,000, 10,000 or 12,000 rpm High Speed HSK Spindle (OPT.)

- » Choice of 8,000, 10,000 or 12,000 rpm HSK 85W Spindle.
- » The advanced HSK 85W Spindle provides a dramatic increase in machining efficiency and cutting surface finishing.
- » Tool changes can be accomplished quickly.



Leadermac uPower Series



LIFTABLE AUXILIARY FEED ROLLER

The mechanism provides added smoothness for short workpiece feeding. The auxiliary feed rollers are power driven for effortless feeding effect, and are liftable for convenient cutter change or setup.



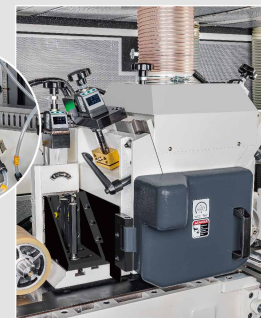
World Class Moulding Solutions

OUTSTANDING FEATURES:

- › Feed Speeds of up to 30 m/min (120 fpm) are standard (higher - OPT.)
- › Programmable Auto Setworks Controllers provide quick & convenient setup for Near Side Head(s) & Top Head(s) as well , other axes are optional.
- › Adjustment of each spindle can be easily performed using the front of the machine adjustment setup and display by HMI.
- › The full Heavy Gauge Steel Sound Insulated Safety Enclosure serves as a chip guard, helps reduce noise and has strobe free lighting.
- › Each spindle is driven by an individual motor for powerful milling and easy control.
- › Pneumatic pressure of the feed rollers can be easily set to provide an outstanding feeding effect – 3 sections – each with individual Adjustment – ie. Infeed, Midfeed & Outfeed Top Rolls. Pressure Controls & Pressure Gauges are mounted the outside of the enclosure post.
- › Digital readouts for the Chip Breaker Shoes of top spindle(s). (OPT.)
- › Split Sectional Chip Breaker assembly in front of top spindle(s).
- › Automatic lubricator is provided to supply oil to the table sections for running parts.
- › All manually adjusted turning parts are housed in dry bearings for oil-free lubrication.
- › Table surfaces are hard-chrome plated for maximum wear resistance as standard.
- › Extra Heavy One-Piece, Cast Iron or Steel Welded Machine Frame is specially heat treated for maximum stability and rigidity by standard configuration.
- › The powered outfeed rolls provide stable and smooth workpiece outfeed even for especially thin or smooth materials. The rolls remain perfectly parallel even after long-term use.

DIGITAL READOUTS FOR CHIP BREAKER SHOES AND PRESSURE SHOES (OPT.)

Both chip breaker shoes and pressure shoes are equipped with LED digital readouts, allowing for accurate and convenient adjustments to be made on pressure shoes.



SYNCHRONIZED ADJUSTMENT OF SPINDLE AND MOTOR

- The vertical spindle and unitor assembly are adjusted synchronously for added convenience.
- The vertical spindle and motor assembly move on dovetailed slide-ways, ensuring higher stability.
- Extra large spindle adjustment (axial direction) reaches up to 80 mm.

Advanced Ideas for Rigorous Moulding Requirements

FEED SYSTEM

The Infeed Rolls work in conjunction with a limit switch to stop the machine, if the is too thick or there is a double up.

POWERED INFEEED ROLLER

The smooth initial feeding of the stock is achieved by means of independently powered Feed Rolls. There are more Powered Top Rolls & Powered Full Width Bottom Rolls than almost all competitors' machines.

CENTRALIZED LUBRICATION POINTS

Greasing to all critical parts is conveniently made by the centralized arrangement of color coded lubrication points along the front of the machine.

CONVENIENT SPINDLE ADJUSTMENT

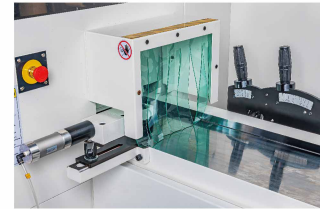
Adjustment of all spindles is easily achieved from the front of the moulder. The adjustment points are all at the same height, for more convenient and faster adjustments.

PNEUMATIC SIDE PRESSURE ROLLER OPPOSITE 2ND REAR SIDE HEAD SPINDLE

Provides positive feed effect for all types of materials & short and narrow stock.

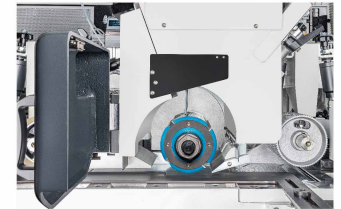
EASY REMOVAL OF AIR HOSE

- The air hose is quick to connect and disconnect for cleaning off internal wood dust or chips.
- An additional pin is provided for hanging the air hose.



PNEUMATICAL SIDE PRESSURE ROLLER (OPT.)

The pneumatically loaded side pressure roller can be fitted at the infeed end. This ensures the stock touches the fence stock to touch the fence for accurate feeding regardless of any width variation. Adjustment is conducted conveniently.



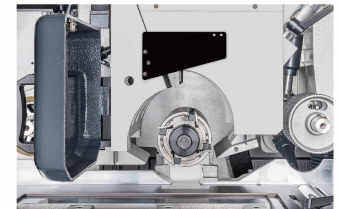
TILTING PRESSURE SHOES

The specially designed tilting chip breaker shoes and pressure shoes are positioned close to the cutterhead, providing stable pressure on the wood when cutting. This outstanding design feature offers increased stability of the wooden workpiece, and produces a superior surface finish.



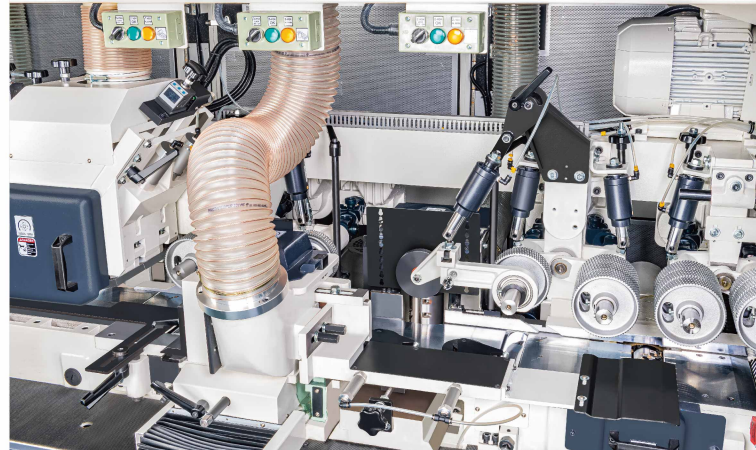
FENCE FOR RIGHT VERTICAL SPINDLE

Fence is adjusted manually for managing depth-of-cut.



QUICK RELEASE SPINDLE NUT (OPT.)

The quick release spindle nut allows the cutting tool to be locked and unlocked quickly and conveniently. This saves considerable tool changing time.





With Innovative Features to Maximize Cutting Efficiency,
Moulding Accuracy and High Grade Surface Finish



INDIVIDUAL HMI FOR EACH SPINDLE (OPT.)

The desired adjustment value for each spindle can be conveniently preset and displayed on the HMI. with these digital readouts, you get faster adjustments and higher accuracy.



Tool Setting and
Measuring Device (OPT.)

CONTROLLER



CONTROLLER

The speed is VFD Inverter controlled, and all electrical components meet CE standards. (OPT.)



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.



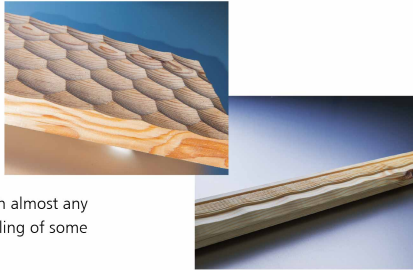
EASYSET CONTROLLER (OPT.)

Touch Screen Control

- 10.1" 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 HMI.

A Wide Range of Spindle Configurations

Machines of 5 to 9 Heads are available with almost any configuration of heads, as desired. A sampling of some Standard Head configurations are below.



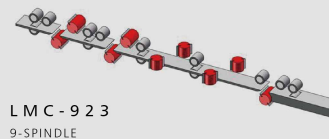
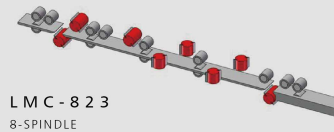
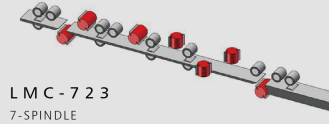
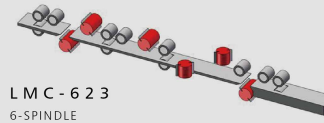
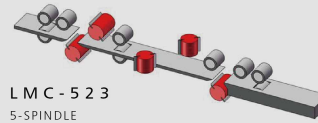
Spindle Configuration

STANDARD EQUIPMENT:	Standard Machine Specs	Optional Specs
Number of Heads / Spindles: Min-Max	5 to 9	Any Head Configuration is available
Working Width (With a Tool Cutting Circle of 125 mm)	15 - 230 mm	Up to 300 mm
Working Thickness (With a Tool Cutting Circle of 125 mm)	10 - 150 mm	Up to 200 or 250 mm
Basic Spindle Motor Capacity	10 / 15 HP	Up to 15 HP (11 KW) (1ST BOTTOM SPINDLE), 20 HP (15 KW) (VERTICAL SPINDLE), 20 HP (15 KW) (TOP AND 2ND BOTTOM SPINDLE)
Spindle Diameter	40 mm	50 mm, 1 13/16" / 2 1/8", HSK 85W
Spindle Speed	6000 RPM	7200 RPM
Tool Cutting Circle, First Bottom Spindle: Min-Max	125 - 203 mm	93 - 203 mm (when option HSK 85W SPINDLE)
Tool Cutting Circle, Vertical Spindle: Min-Max	125 - 203 mm	93 - 203 mm (when option HSK 85W SPINDLE)
Tool Cutting Circle, Horizontal Spindle: Min-Max	125 - 203 mm	93 - 203 mm (when option HSK 85W SPINDLE)
Feed Motor	5 HP / inverter	10 / 15 / 20 HP / inverter
Feed Speed, Infinitely Variable By Frequency (VFD) Driven	30 n/min	
Top Feed Rolls - Diameter	140 mm	
Top Feed Roll Width - Multiple Rolls Stacked on Shafts	50 mm / Roll	
Bottom Feed Roll Width	Full Width	
Pneumatic Pressure for Feed Rollers: Max	6 bar	
Adjustment Range for Infeed Table (BTM Head Cut) and Edge Jointing Fence	10 mm	
Adjustment Range of Vertical Spindles (Axial)	80 mm	
Adjustment Range of Horizontal Spindles (Axial)	40 mm	
Length of the Infeed / Straightening Table	1.8 M	0.71 / 1.4 / 2.5 / 3 M
Diameter of Dust Hoods for Vertical & Horizontal Spindles	Ø150 mm	
Digital Readouts on All Axis of All Heads	Std.	
Full Sound and Safety Enclosure	Std.	
Motorized Vertical Adjustment of Feed Beam	Std.	
Lateral Pressure Multiple Roller Opposite First Right Spindle	Std.	
Chainless Cardan Shaft Feed System	Std.	

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

SOME OPTIONAL EQUIPMENT:

To CE	HSK 85W spindle 8,000 RPM
Grooved Bed (for running very short materials)	HSK 85W spindle 10,000 RPM
Opposed Side Heads	HSK 85W spindle 12,000 RPM
Universal Spindle	Adapters for standard tools on vertical spindle (when order HSK 85W spindle)
Rip Saw Section with up to 50 HP (37.5 kw)	Adapters for standard tools on horizontal spindle (when order HSK 85W spindle)
Left (Opposite) Hand Feed	Quickly releases spindle nut
Pneumatic Pressure Shoes for Top Spindle	SIKO LED Digital Readouts for the Chip Breaker Shoes for top spindle
Anti-Kickback Fingers	SIKO LED Digital Readouts for the Pressure for top 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 the highest quality & accuracy. These machines are precision manufactured by our highly skilled technicians. Plus, Leadermac 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.

