LEADERMAC

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CE ISO-9001 TUVNORD



Hypermac series LMC 2014.03

Hypermac series

Leadership Through Performance and Reliability

LEADERMAC

Quality Features Add More Value to Your Production

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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.



Advanced Ideas for Rigorous Moulding Requirements

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

POWERED INFEED ROLLER
The smooth initial feeding of the stock is achieved by means of the independently powered Feed Rolls. There are more Powered Top Rolls & Powered Full Width Bottom Rolls then almost all competition.

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 effected from the front of the moulder. The adjustment points are all at the same height, for more convenient and faster adjustment.

SIDE PRESSURE WHEELS FOR 2ND SPINDLE
Provides positive feed effect for short and narrow stock by 3 pneumatic controls.

PNEUMATICALLY PRESSURED SIDE PRESSURE ROLLS OPPOSITE 2ND REAR SIDE HEAD SPINDLE
Provides positive feed effect for all types of material & short and narrow stock.



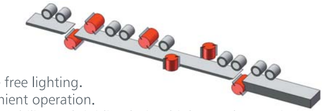
HIGH PRECISION SPINDLES
All spindles are precision constructed and specially heat treated to provide maximum cutting stability and permanent accuracy. 4 Super Precision Bearings per Spindle provide the best most accurate spindles available.
They are water and dust-proof. Standard spindle speed is 6,000 RPM and 7,200 or 8,000 RPM are optional.

Thinking Ahead! Staying Ahead!

LEADERMAC Hypermac Series

LEADERMAC Hypermac Series

A significant Reduction of Machining Time with Greater Profitability
The Hypermac Series 4-sided Moulder from LEADERMAC has been designed to achieve great throughput and increased profits. The Hypermac is compactly constructed with rugged construction that integrates many fine features such as high speed and heavy cutting operations, high accuracy and superior fine finish. With the well-planned PLC Control, quick setup and efficient operation can be easily achieved.



Hypermac 623
- 6-spindle configuration.
- 6,000 rpm spindle speed.
- Fully sound safety enclosure with strobe free lighting.
- Programmable control allows for convenient operation.
- One-piece machine frame for improved stability and rigidity during high speed operation.
- To 36m/min (125 fpm) feed speed. Variable feed speed is driven by a VFD-frequency inverted motor.

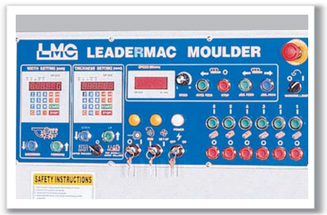
Hypermac 723
Designed for Highly Efficient Performance Year After Year!
LEADERMAC's Hypermac 723 is able to maximize machining capabilities of complex profiles of wood. The Hypermac series, with its advanced design, will help you to achieve higher productivity and profitability. The Hypermac 723 is designed with 7 spindles, making it ideal for producing complex profiles in a single feed. It has 36m/min.(125fpm) feed speed combined with 6,000 rpm high spindle speed, allowing for high speed cutting, and extra fine finish can be achieved. Furthermore, the Hypermac 723 is equipped with a user-friendly programmable control for increased convenience of operation while eliminating the need of trial runs.



World Class Moulding Solutions

OUTSTANDING FEATURES:

- Feed Speeds of up to 36 mpm(120fpm) are standard (higher-optional)
- Std. Programmable REC Auto. Setworks Controllers provide quick & convenient Setup for Near Side Head(s) & Top Head(s) as well as other Axis optional
- Adjustment of each spindle can be easily performed using the front of the machine adjustment setup.
- Separate adjustment of the vertical spindles and the support feed tables allow the feed tables to be positioned extremely close to the side cutterheads to provide added cutting stability.
- The full Heavy Gauge Steel Sound Insulated Safety Enclosure serves as a chip guard and helps to 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 mounted on outside of the enclosure post.
- Table Surfaces, Guides, Chip Breakers & Pressure Plates are hard-chrome plated for maximum wear resistance.
- All manually adjusted turning parts are housed in dry bearings for oil-free lubrication.
- Automatic lubricator is provided to supply oil to the table sections for running parts.
- Extra Heavy One-piece, Cast Iron or steel weldment Machine Frame is specially heat treated for maximum stability and rigidity by standard configuration.
- Digital readouts for the Chip Breaker Shoes of top spindle(s).
- Split Sectional Chip Breaker Ass'y in front of top spindle(s).
- 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.



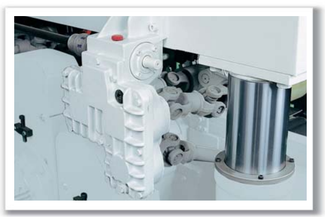
PROGRAMMABLE CONTROLLER
Width and thickness setting can be easily set using the REC Programmable Controller. The cutterhead radiuses & desired width and thickness can be conveniently pre-set and are displayed on an LED. The speed is VFD Inverter controlled, and all electrical components meet CE, UL & CSA standards.



FEED TABLE
The entire Cast Iron – Chromed Infeed table is normalization heat treated for maximum stability. Infeed Table & Fence adjustment is quickly accomplished by means of a quick-setting levers.



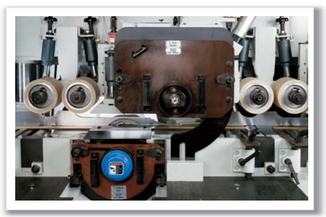
LIFTABLE AUXILIARY FEED ROLLER
The mechanism provides added smoothness for short workpiece feeding. The auxiliary feed rollers are power driven for effortless feeding effect, and are liftable for convenient cutter change or setup.



HEAVY DUTY GEARBOXES
The feed rollers are driven through a combination of Extra Heavy Universal Shafts and Gearboxes, ensuring no loss of power transmission. A smooth feeding effect is assured. The heavy duty gearboxes have no backlash and provides powerful and accurate feeding performance.



STRAIGHT JOINTER (OPT.)
The remote-controlled straight jointers provide accurate operation with high repeatability. They help ensure a long service life and super surface quality. (Opt.)



CLAMPING SYSTEM (OPT.)
Utilizing housing bearings, the reliable hydro-clamping system ensures consistent quality across the entire workpiece. The unit performs admirably even during high-speed continuous operation. The spindles can be adjusted axially even if the housing bearings are locked.

Smartset 400

Touch Screen Control (optional)

* Automated Machine Quick Setup
* Easy & Powerful Functionality
* History & Library of Information
* Pattern/Profile Memory of 1000 patterns
* All Axis outfitted with Ball Screws & Rotary Encoder Position Feedbacks
  For Best Set Control and hence better Cut Quality
* Setworks on any axis as desired
* Download from the Grinding room Measuring Stand to PC to Upload to SmartSet Control available

JOINTERS (OPTIONAL) on HYPERMAC+
Remote-controlled Straight &/or Profile Jointers provide accurate operation with high repeatability. They help ensure a long service life and super surface quality. (Opt.)

HYDRO-LOC QUICK CLAMPING OUTBOARD SUPPORT SYSTEM (OPTIONAL)
Utilizing a precision outboard bearing, the reliable hydro-clamping system ensures consistent quality across the entire workpiece. The unit performs admirably even during high-speed continuous operation. The spindles can be adjusted axially even if the housing bearings are locked. Used on Wider &/or Jointed Machines

CONVENIENT SPINDLE ADJUSTMENT
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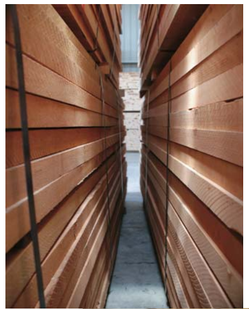
HIGH PRECISION SPINDLES
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STANDARD EQUIPMENT:	LMC-223H to LMC1123H	Available Options
Number of Heads / Spindles, min-max	2 to 11	Any Head Configuration - available
Working Width (with a tool cutting circle of 125~232mm)	15~230mm (0.59"-9")	to 310mm(12.2"), 330mm (13")
Working Thickness (with a tool cutting circle of 125~225mm)	10~150mm (0.39"-6")	to 200 (8")
Basic Spindle Motor capacity	7.5 / 11KW (10 / 15HP)	to 37.5KW / 50HP
Spindle Diameter	40mm	50mm, 1 13/16" / 2 1/8"
Spindle Speed	6000 RPM	7200 / 8000 RPM
Tool cutting circle, First Bottom Spindle, min-max	125~180mm (4.9"-7.1")	
Tool cutting circle, Vertical Spindles, min-max	125~232mm (4.9"-9.1")	250mm / 9.8"
Tool cutting circle, Horizontal Spindles, min-max	125~225mm (4.9"-8.8")	250mm / 9.8"
Feed Motor	5.5KW / 7.5HP / INVERTER	7.5 / 11 / 15KW (10 / 15 / 20HP) / INVERTER
Feed speed, infinitely variable by frequency (VFD) driven	6-36 m/min (20 / 120fpm)	48m/min (160fpm)
Top Feed Rolls - Diameter	140mm (5.5")	
Top Feed Roll Width - Multiple Rolls Stacked on shafts	50mm (2") / Roll	
Bottom Feed Roll Width	Full Width	
Pneumatic pressure for feed rollers, max	6 bar (85psi)	
Adjustment range for Infeed Table(Btm Head Cut) and Edge Jointing Fence	10mm (0.4")	
Adjustment range of vertical spindles (axial)	80mm (3.2")	100mm / 4"
Adjustment range of horizontal spindles (axial)	40mm (1.6")	
Length of the Infeed / Straightening table	2M (78")	0.8 / 1.4 / 2.5 / 3M (32" / 55" / 98" / 120")
Diameter of Dust Hoods for Vertical & Horizontal Spindles	Ø150mm (5.9")	
Digital Readouts on All Axis of all Heads	Std.	
Digital Readouts for the Pressure Shoes	Std.	
Full Sound and Safety Enclosure w/ Strobe Free Lighting	Std.	
Motorized vertical adjustment of Feed Beam	Std.	
Lateral Pressure Multiple Roller opposite first right spindle	Std.	
Chainless Cardan Shaft Feed System	Std.	
REC Setworks on Near Side Head(s) & Top(s) - Radial	Std.	

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

OPTIONAL EQUIPMENT:	
SmartSet Touch Screen Controls with 500 or 1,000 Pattern Memory and Download Capabilities from the grinding rooms with upload to the control including Ball Screws, Rotary Encoders & Multiple Digital Readouts on each axis	Split Pressure Shoes
	Opposed Side Heads
	Universal Spindle, tool cutting circle min 125mm, max 200mm
Tilting Top Beam, Tilting Feed, Tilting Feedworks, Tilting top Head Chipbreaker Ass'y, Tilting Pressure Plate(s)	Rip Saw Section with up to 56kw (75HP)
Tilting Side Heads	Left (Opposite) Hand Feed
Grooved Bed for running very short material	DC Electronic Cutterhead Brakes



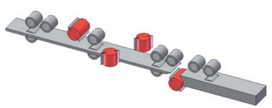
A Wide Range of Spindle Configurations

- Machines of 2 to 11 Heads are available with almost any configuration of heads as desired

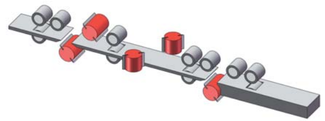
A sampling of some Standard Head configurations -



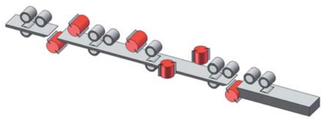
LMC-423
4-SPINDLE



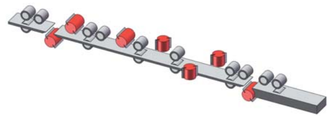
LMC-523
5-SPINDLE



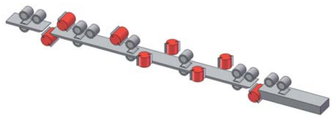
LMC-623
6-SPINDLE



LMC-723
7-SPINDLE



LMC-823
8-SPINDLE



LMC-923
9-SPINDLE

