



Machinery for the Woodworking, Stone,
Glass, Plastic, and Metalworking Industries



Date : 04/25/2024 - 3:32 AM *
EXF # : SX-300053
Category : SANDERS-MULTI.HD/POLISHER
Brand / Model : EMC "ROTOPLUS LUC + BRILL 1350"
Machine Type : POLISHER (2-MACHINE LINE - 52")
Year of Mfg. : 2024
Condition : Brand New w/Warranty
Elect / Voltage : 230/400 V, 50/60 Cy, 3 Ph.
Special Note : Brand New

FOB / Region : MIDWEST
Appr. Repl. Cost. : \$ 265,000
Price : **\$ 259,000 ***
Comment : "High Gloss" Finishing at its BEST!
Leasing : Lease for \$ 5,147/Mo. at NCL



Please ask me

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* Pricing is valid at the time of printing and subject to change at any time.

Description :

- **EMC ROTOPLUS 1350 – LUC (1)5 + BRILL 15 Polishing & Buffing Line**

Heavy Duty Automatic Polishing & Buffing line for high gloss lacquered panels, consisting of:

- Infeed Conveyor
- ROTOPLUS 1350 LUC 5+1 - Polishing and Wax Application machine
- Intermediate Conveyor
- ROTOPLUS 1350 BRILL 15x - Buffing Polishing machine

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EX-FACTORY INC.: 1805 Sardis Road North | Charlotte, NC 28270 USA | Ph +1 704.841.2001 | Fax 704.644.8068
Warehouse & Showroom: 8191 Logistic Drive, Suite E | Zeeland, MI USA | Ph +1 616.772.1520 | Fax 704.644.8328



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- Outfeed Conveyor
- Synchronization of feed speed of all equipment in the line, the Rotoplus machines including all conveyors

Following are the full specifications:

- Infeed Conveyor, 1.500 x 1.350 mm (59" x 53") Constant pass line 900 mm (35") +/- 40 mm (1-9/16").

Variable feed speed inverter controlled and electronically controlled for synchronized speed and transfer with all other machines of the line.

Feed speeds from 0,4 to 8 m/Min (1,3 - 26 FPM).

- **ROTOPLUS 1350 LUC 5+1**

Polishing and Wax application machine for high gloss lacquered wood panels for Polyurethane lacquer or brilliant straight, brushes adjustable at different angles. Equipped with (1) longitudinal Brush Head plus (5) rotating brushes on carousel.

1st STATION - Longitudinal Polishing Brush:

Cleaning polishing cotton brush diameter 275 mm (10-13/16").

Length of the brush 1,420 mm (55-5/16").

Brush inclined 3° in respect to the parallel 180°.

Automatic low pressure Spraying Gun.

Longitudinal chain rail system for gun movement.

Electric adjustment of the working pressure, operated from main touch screen control unit.

Main motor power 7,5 kW (10 HP).

Rotating speed adjustable from 260 to 960 RPM by means of inverter 7,5 kW (10 HP).

2nd STATION - Polishing Carousel:

CAROUSEL with (5) Brushes.

Max. Brush diameter: 350 mm (13-3/4").

Spindle diameter 80 mm (3-1/8").

Spindle length: 400 mm (15-3/4").

(5) Independent motors, 5,5 kW (7,5 HP) each, with counter bearing supports.

The working angle of the brushes is adjustable.

Variable speed adjustable from 3 to 36 RPM by means of electronic inverter, driven by 4 kW (5,5 HP) motor.

Clockwise and anti-clockwise direction of rotation.

Programmable speed control operated from main electronic touch screen display.

(5) Special shafts for brushes support EXTRA in addition to the standard ones.

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(5) Cotton rags 350 mm (13-3/4") to fit the shafts.

Automatic System for Abrasive Wax application:

Pressurized tank (50) liters for liquid abrasives, with automatic miscellaneous bottom exit and pressure regulator for gun.

Low pressure spraying gun for liquid abrasives.

Electronic valve for spray gun control.

Infrared high precision photocell to detect the panels and activate the spraying gun.

Adjustable support for spraying gun positioning.

Software and graphic control, programmable through PLC and touch screen.

Software and Plug for Telemetry. Computer remote diagnostics control:

Direct computer connection between EMC and customer, for online support.

- **Intermediate Conveyor, 1.500 x 1.350 mm (59" x 53")**, Constant pass line 900 mm (35") +/- 40 mm (1-9/16").

Variable feed speed inverter controlled and electronically controlled for synchronized speed and transfer with all other machines of the line. Feed speeds from 0,4 to 8 m/Min (1,3 - 26 FPM).

- **ROTOPLUS 1350 BRILL 15x**

Buffing & Polishing machine for lacquered high gloss wood panels for polyurethane lacquer or brilliant finishing equipped with (15) rotating buffing pads in five groups of three each, mounted on a carousel with (5) arms.

Buffing Pads unit (itself):

N° of buffing pads: **(15)**

Buffing pads diameter Min - max: 20 - 200 mm (13/16" - 7-7/8")

Spindle diameter for buffing pad: 30 mm (1-3/16")

Buffing pads mounted on a carousel of 5 arms, in groups of (3) on each arm

(5) Independent motors, 2,2 kW (3 HP) each, each powers (3) pads

Electronic inverter for variable pads speed adjustable from 280 to 1,600 RPM

(15) pads supports with self-cooling system for panels

Quick changing device for buffing pads, "STRIPS system"

(15) Buffing pads (sponge) diameter 160 mm (6-5/16") included

Programmable speed control operated from main electronic touch screen display

5-Arm Carousel for the pads:

Main motor power 4 kW (5,5 HP)

Variable speed adjustable from 5 to 40 RPM, by means of electronic inverter

Clockwise and anticlockwise rotation direction

Programmable speed control operated from main electronic touch screen display

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(15) Extra buffing pads (sponge) diameter 160 mm included in addition to the standard ones.

Automatic system for POLISH BRILLANT liquid application:

Pressurized tank (50) liters for liquid abrasives, with automatic miscellaneous bottom exit and pressure regulator for gun

Low pressure spraying gun for liquid abrasives

Electronic valve for spray gun control

Infrared high precision photocell to detect the panels and activate the spraying gun

Adjustable support for spraying gun positioning

Software and graphic control, programmable through PLC and touch screen

Inverter 4 kW (5,5 HP) for vacuum blower to set and control the vacuum capacity

The inverter also automatically controls the air flow and energy efficiency

Software and plug for telemetry. Computer remote diagnostics control

Direct computers connection between EMC and customer, for online support.

- **Outfeed Conveyor, 1.500 x 1.350 mm (59" x 53")**, Constant pass line 900 mm (35") +/- 40 mm (1-9/16").

Variable feed speed inverter controlled and electronically controlled for synchronized speed and transfer with all other machines of the line. Feed speeds from 0,4 to 8 m/Min (1,3 - 26 FPM).

Both machines are equipped with:

Thickness and Brushing control:

Motorized table lifting with fine adjustment on (4) precision ball bearing screws.

Working height max. 140 mm (5-1/2").

Height adjustment driven by 0,37 kW (0,5 HP) motor.

Thickness programmable and controlled from touch screen panel.

Working Table (Bed) and Conveyor Feed Belt:

Constant pass line 900 mm (35") from floor.

Working table (Conveyor bed) in pre-welded steel, machined.

Big diameter screws on rectified guides columns and pistons.

Natural rubber conveyor belt, rectified, square negatives profiles.

Electronic inverter for variable feed conveyor belt speed, adjustable from 0,4 to 8 m/Min (1,3 - 26 FPM).

Automatic servo-cooled motor for feed speed.

Automatic feed belt centering device.

Programmable speed control operated from main electronic touch screen display.

Vacuum System:

Vacuum table system to hold small or slippery pieces, including fan 4 kW (5,5 HP).

Table and belt perforated with hole system; double left and right vacuum (air) lines.

Vacuum fan (blower) installed inside machine frame under the machine table to optimize the vacuum suction, with very short lines and without curves.

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Automatic timing sequence starter.
Low noise level, insulated with sound proof materials.

Electrical Plant:

Check control panel. Self-diagnostics alarm control integrated on touch screen.
Conveyor bed raising-lowering thickness system electrically controlled.
AUTOMATIC Star-Delta starter, for each abrasive belt motor.
Padlocked main electrical switch.
Independent overload protections.
Main control cabinet centralized and IP54 protection against dust and moisture.
LED Light inside all the machines.

Pneumatic Plant:

Centralized independent pneumatic control cabinet.
Pneumatic air filter with automatic water-drain system.
Pneumatic plant working without lubrication.
Compressed Air Pressure 6 bar (87 PSI).

Electronic Control and Display:

Electronic programmable color 7" TOUCH SCREEN control and display.
PLC with micro-processor - CP0291 modular and expandable.
Connection USB, RS232, Ethernet 10/100/1000.
Memory capacity: (100) working programs.
Front protection: IP65 against dust & moisture.
Visualization report and reset of alarms (self-diagnostic).
Command, programming and display for:

● all electronic brush functions;
● thickness;
● feeding;
● selected groups;
● the carousel.

Safety Features:

CE; European standard safety norms in compliance with **2006/42/EC**.
Oversized parts infeed protection bar.
Door lock protections and delays while opening.
Rear and front emergency push button.
Automatic emergency stop and alarm display in case of:
 **Compressed air low*
 **Electric motors overloading and dispersion*
 **Emergency detector for over thickness material cut*

Special note: The price includes:

- 2-year Warranty.

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- Money back guarantee by EMC if the machine does not function up to the agreed standards for a trial period of (6) months.
- Commissioning on-site by an EMC engineer including set up of the machine, and full instruction & training of the people that will operate the machine.
- EX-Factory has an extended stock of spare parts in our Zeeland, MI warehouse.

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