



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



**Date :** 04/18/2024 - 9:39 PM \*  
**EXF # :** AP-300005  
**Category :** ABRASIVE PLANER & SANDERS  
**Brand / Model :** EMC "MERCURY 1100 WRK"  
**Machine Type :** KNIFE PLANER/SANDER (3-HD. TOP)  
**Year of Mfg. :** 2024  
**Condition :** Brand New w/Warranty  
**Elect / Voltage :** 220 V, 60 Cy, 3 Ph.  
**Special Note :** Brand New

**FOB / Region :** MIDWEST  
**Appr. Repl. Cost. :** \$ 93,000  
**Price :** \$ 0 \*  
**Comment :** High Tech Wide Belt  
European Sander at a Great  
Pri  
**Leasing :** Call for Quote



Please ask me

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

### Description :

- **EMC MERCURY 1100 3WRK Abrasive Planer / Wide Belt Sander with (3) Heads; Planer Head, Contact Roller, and Combination Head.**

Useful working width 1,100 mm (43"). Working thickness min./max. 3 - 170 mm (1/8" - 6-11/16"). The machines uses abrasive belts **2,620 x 1,120 mm** (103" x 44-1/16") for longer life of the sanding belts.

#### Head configuration:

##### 1st Head: Planer Head "W"

- Cutter head knives diameter 140 mm (5-1/2").
- Shaft for helicoidal position knives with **(316) Interchangeable knives** with 4 cutting edges, 14 x 14 x 2 mm.

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- Sectioned pressure bars in 20 independent segments.
- Anti kickback protection made of 60 independent elements.
- On-Off pneumatic cylinder for planer. group in working position.
- Working pressure adjustment.
- **Motor power: 15 kW (20 HP).**
- Automatic Star-delta starter.
- Speed rotation: 35 m/Sec (115 FPS).
- Soft starter for slow starting

**2nd Head: Steel Roller "R", Belts dimensions: 2,620 x 1,120 mm (103" x 44").**

- Roller diameter: 180 mm (7"), spirally grooved.
- Electronic motorized roller pressure adjustment "Grit-set system".
- On-Off selector switch control for roller.
- Constant control to any position with accuracy 0.02 mm.
- Rotation: Against feed (clockwise).
- **Motor power: 11 kW (15 HP)** with Automatic star-delta starter.
- Abrasive Belt cutting speed: 18 m/Sec (59 FPS).
- Timing oscillating cleaning abrasive belt blower located at the bottom

**3rd Head: COMBINATION Unit "K", Belt dimensions: 2,620 x 1,120 mm (103" x 44").**

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- Roller diameter: 140 mm (5-1/2").
- Roller rubber hardness 45 Shore, Constant control to any position with accuracy 0.02 mm.
- On-Off selector switch control for 3rd roller including pneumatic piston
- **Pneumatic Aluminum PAD** , lamina 40 mm, On-Off.
- Quick changing system, extractable blade with felt, rubber and graphite.
- Rotation: Against feed (clockwise).
- **Motor power: 11 kW (15 HP)** with automatic star-delta starter. Abrasive Belt cutting speed: 18 m/Sec (59 FPS).

**Feed system:**

- Idle table rollers support in infeed and outfeed.
- Rubber covered presser rollers, grooved.
- Variable feed belt speed, adjustable from 3 to 17 m/Min (9.8 - 55 FPM) Inverter Controlled.
- Automatic feed belt centering device.

**General Machine Features:**

- Large diameter screws on machined guides with columns and pistons.
- Independent main motors.
- Analog ammeters, for each motor, on main control cabinet.
- Electronic motorized grit set system, control from touch screen for each (head) working group.

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**Electronic programmable color TOUCH SCREEN display, 7" wide**

- PLC with micro-processor of latest generation, modular and expandable.
- Connection USB, RS232, Ethernet 10/100/1000.
- Memory capacity: 100 working programs or more.
- Graphic synoptic to facilitate programming.

**Software facilities:**

- Automatic motor sequence starting.
- Command, programming and display for all electronic pad functions.
- Command, programming and display for thickness.
- Command, programming and display for feeding.
- Command, programming and display for all inverters.
- Command, programming and display for selected groups.
- Command, programming and display for blowers, including compressed air saving function.
- Display report and reset of alarms (self diagnostic) with memory records.

**Centralized Control Cabinet:** IP 54 protection against dust & moisture. Analog ammeter on main control cabinet. Table (Conveyor Bed) lifting-lowering thickness system electrically controlled. AUTOMATIC Delta - Star starter on abrasive belt motors.

**Centralized independent pneumatic control cabinet:** IP 54 protection against dust & moisture. Pneumatic air filter with automatic water-drain system. Pneumatic adjustment for "Grit set system". Pneumatic plant working without lubrication. Compressed air pressure 6 bar (85 PSI)

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