



AEM, Inc.
11525 Sorrento Valley Rd.
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Precision Printer

AEM Precision Printer Model P2002-2



DESCRIPTION

AEM precision printer Model P2002-2 is specially designed for high precision screen/stencil printing of electrode on ceramic bars on pallets.

The basic framework is built on a precision four-pole die set to maintain the precision position of pallets during printing. The pallet is mounted on the mechanical and vacuum hold-down fixture on the middle plate in the die set. Under the hold-down fixture there is a precision x-y table for alignment.



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The z-axis is controlled by a servo motor system to ensure accurate snap-off. When the ceramic bar increases its thickness during the build up process, the snap-off can be maintained by simply setting of a micrometer.

The printing head is controlled by an air-hydraulic power system to keep the printing and flooding strokes smooth and precise. The printing pressure is controlled by the air pressure regulator. The printing speed is controlled by a hydraulic control valve.

A PLC is used to control the operation of the printer.

SPECIFICATION

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| Normal screen frame size: | 12" x 12" |
| Normal pallet size: | 6"x6" |
| Normal printing area: | 5"x5" |
| X – Y table adjustable range: | up to 1" in both X and Y directions |
| θ Adjustable range: | up to 90° |
| Z Adjustable range: | up to 1" |
| Repeatability of X-Y position: | less than +/-0.0005" |
| Repeatability of Z position: | less than +/-0.001" |
| Z –Axis drive and control: | DC servomotor with digital drive |
| Printing and flooding drive: down | Air – hydraulic power system with 2-way hold- |
| Max. Printing/flooding stroke: | 10" |
| Printing speed: | 1"/sec to 5"/sec |
| Printing pressure: | Floating self-aligned head regulated by air pressure. 20-80 PSI |



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|------------------------|--|
| Printing stroke guide: | Precision ball bearing slide |
| Z-Axis movement guide: | Four-pole precision ball bearing slide |
| Controller: | Keyence programmable logic controller |
| Dimensions: | L – 42”, W-24”, H-50” |
| Weight: | 800 lb approx |
| Power: | 110V 50/60 Hz single-phase 5A max. |
| Compressed air: | 80 PSI |