High Production Encoding Machine Magnetics

HPEM at-a-glance:

- High reliability for mass public distribution of cards
- Full production capability — magnetic encoding, verifying, printing, initializing, and stacking in magazines of mini-packs
- Communications to central system via a dedicated network
- Security architecture that monitors the operators and cancels rejected tickets
- Reconciliation data for all tickets and batches
- Continual production process with automatic stacking change over to the next empty magazine/mini-pack.
- Audit printer provides continuous copy of audit data
- Flexibility to produce contactless smart cards and magnetic tickets with interchangeable modules
- Mass distribution of pre-encoded media
  - 7000 cards per hour
  - Provides tickets for vending machines, ticket offices, and retail outlets
  - Automatically fill TVM magazines or mini-packs
  - Flexibility to pre-encode cards with value and products
  - Custom capability to pre-encode cards with special permissions for students, seniors, disabled, events

The High Production Encoding Machine - Magnetics is designed for high volume ticket encoding of magnetic media. It performs all of the functions needed to produce reliable cards for mass public distribution including formatting, encoding, printing, initializing, testing, stacking in magazines for automated sales from vending machines, and stacking in mini-packs for smaller ticket sales outlets.

How it works

The operator activates the HPEM via a personal access code and then enters run data through menu prompts which generally includes: the batch number, serial number range, value, total number of cards required for a run and the number of cards in each mini-pack or magazine. As the machine performs the magnetic encoding and verifying process, the operator display shows the number of cards being processed in the relevant parts of the mechanism, e.g. the number of cards encoded, the number that are stacked and the number of cards rejected.

The HPEM can encode a wide range of magnetic data densities, media coercivity and formats and can easily be adapted to new ones. During the magnetic encoding process the encoded data is verified for accuracy and signal strength. Tickets that fail either of these tests are diverted from the transport path and placed into a capture bin. For security reasons cancellation data is magnetically encoded onto the ticket prior to it entering the bin by additional encoding heads.

Tickets that pass verification are printed with validity transit data by a high speed ink jet printer that can print 2 lines of alphanumeric characters at a density of 10 characters per inch. Special fast drying inks are used that are compatible with PET, PVC and paper ticket materials.

As an option the magnetic encoding module can be interchanged with a contactless smart card module and contactless smart cards can be processed by the same machine providing for a multi-ticket technology capability. The High Production Encoding Machine can process 7,000 magnetic tickets per hour or 3000 contactless smart cards per hour, facilitating mass distribution of pre-encoded media through ticket vending machines, ticket offices, and retail outlets. Cards can be pre-encoded with value, products, or special permissions for students, seniors or patrons with disabilities.

High Production Encoding Machine Magnetics

Specifications:

Physical
Dimensions: Height 1.7m (67in), Width 2.09m (82in), Depth .63m (25in)
Weight: 455kg (1000lbs)
Material: 2mm (0.79in) thick stainless steel
Voltage: 110 to 264 VAC, 50/60 Hz
Power Dissipation: 600W Max

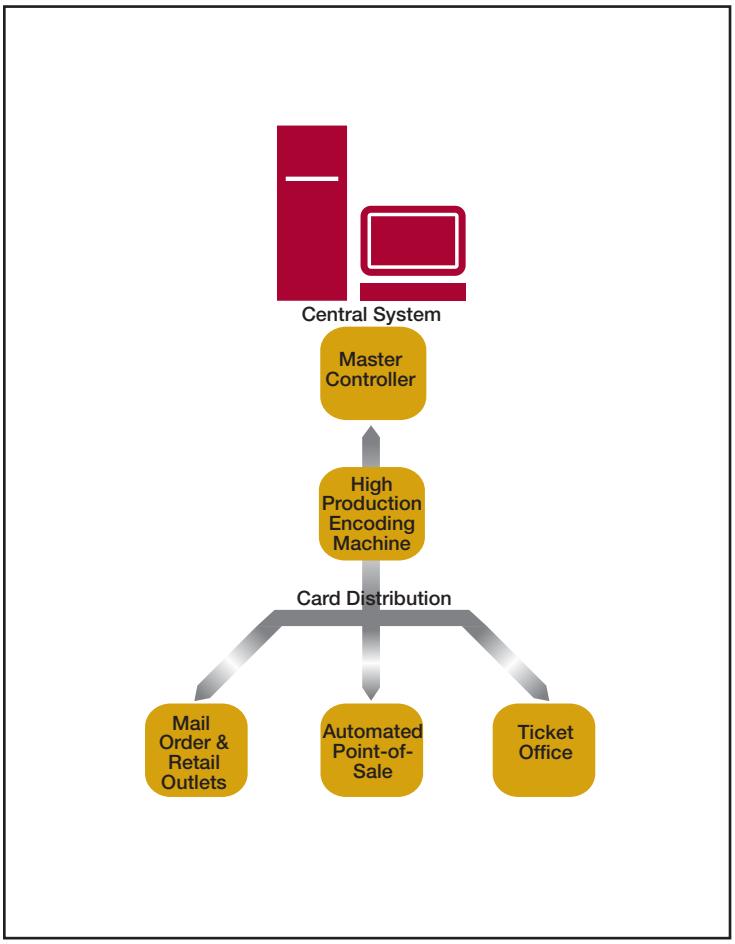
CPU Capability
Processor: Pentium® PII 400 MHz CPU (minimum)
Operating System: Windows® NT
Memory: 64 MB RAM, 2 MB PCI card

External Interfaces
RS-232
Domino ink jet printer
Audit printer

Environmental
Operating Temperature: +10°C to +40°C (+50°F to +104°F)
Relative Humidity: 15% to 90%

User Interfaces
Operator Interface: 15in color monitor, keyboard and mouse

Media Processing
Magnetic tickets ranging in thickness from .007” to .010”
High and low magnetic media coercivity
Validity printing of two lines alphanumeric at 10 characters per inch
Card Processing: 7000 per hour, input 1 magazine of 1350 (continuously loaded by operator), output 4 magazines of 1350 or 4 blister packs of 100, reject bin capacity of 100



Cubic Transportation Systems, Inc.
World Headquarters
5650 Kearny Mesa Road
San Diego, CA 92111 USA

Telephone: +1-858-268-3100
Fax: +1-858-292-9987

In the interests of product improvement Cubic reserves the right to change the above specification without notice.

CUBIC

5/18/09