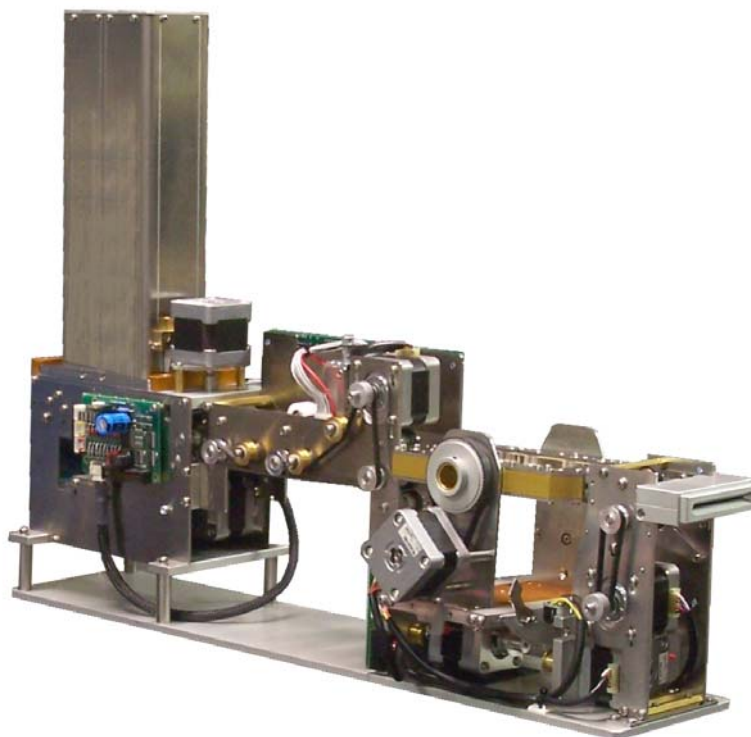




Design and manufacturing of issuing machines and encoders for cards and magnetic tickets



LEM 2K8 Laser Engraving Module



DESCRIPTION

The LEM module allows complete management of plastic card personalization and issuing cycle.

After issuing from card dispenser it is possible to magnetically encode cards according to ISO standards and read/write the chip present on the card.

After encoding operations on the card it is possible to proceed with graphic personalization back and front, included CLI and MLI.

Issuing is made in collecting box on operators side or internally in box for discarded titles.

The front opening allows to introduce one only card for personalisation operations.

The device is extremely flexible and allows high productivity: it is possible to overlap magnetic writing operations and/or read/writing on chip on one card, with laser engraving operations on the previous card. The technical solution adopted for the flip over allows laser engraving on maximum surface and maximum area positioning freedom for CLI and MLI

Optional devices are available upon request:

- IC card hi speed unit
- Contactless card unit
- Bar code reader
- ISO standard magnetic encoding

MECHANICAL STRUCTURE

The module is compact and equipped with card dispenser and stock for cards. Stock is removable and flip over can rotate at 360 degrees.

The card transport system allows a engraving area up to 1 mm from edge. All operations are managed by stepping motors to guarantee highest precision. Host connection is RS232 high speed.

AVAILABLE OPTIONS FOR BASE VERSION

- High speed IC card unit
- MIFARE contact less card reader
- Bar code reader
- Magnetic ISO standard encoding
- Mechanism for MLI engraving

CPU BOARD CHARACTERISTICS

The module is controlled by CPU board with resident firmware with following characteristics:

- CPU board risc 32 bit Fujitsu
- Ram memory up to 512 Kb
- Flash Memory 512 KB
- Eeprom serial memory type 8k x 8 bytes
- RS232 and RS422/485 port, opto insulated up to 115.200 bit/sec
- RS232 at 115.200 bit/sec optional
- Main CAN BUS port 2.0 - 1 Mbits/s
- Input for biphase encoder at high resolution

TECHNICAL DATA

Dimensions (mm.)	220 (H) x 540 (L) x 220 (P)
Power supply	24 Vdc – 2,5 / 3,6 A max
Operative speed	Up to 800 mm/Sec.
Print area	52 x 84 mm.
Magnetic head average life	>1.000.000 cycles
Interface	EIA RS232C 115 Kbps
Protocol	Proprietary

ADEL S.r.l. reserves the right to modify technical data without advise

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