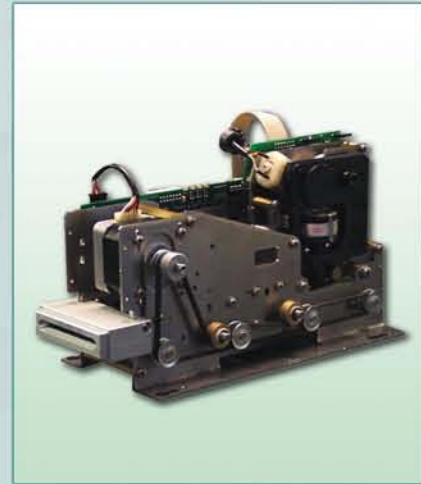




ADEL Modular ticketing system



ENC_RISC
Reading and encoding module for magnetic tickets and cards with optional modules



FED899/R – FED120
Feeder for paper tickets of 85,6 mm or 120 mm



FED899/90°
Vertical feeder for space saving



FED2K6/2R
Horizontal double feeder for tickets in fanfold and rolls



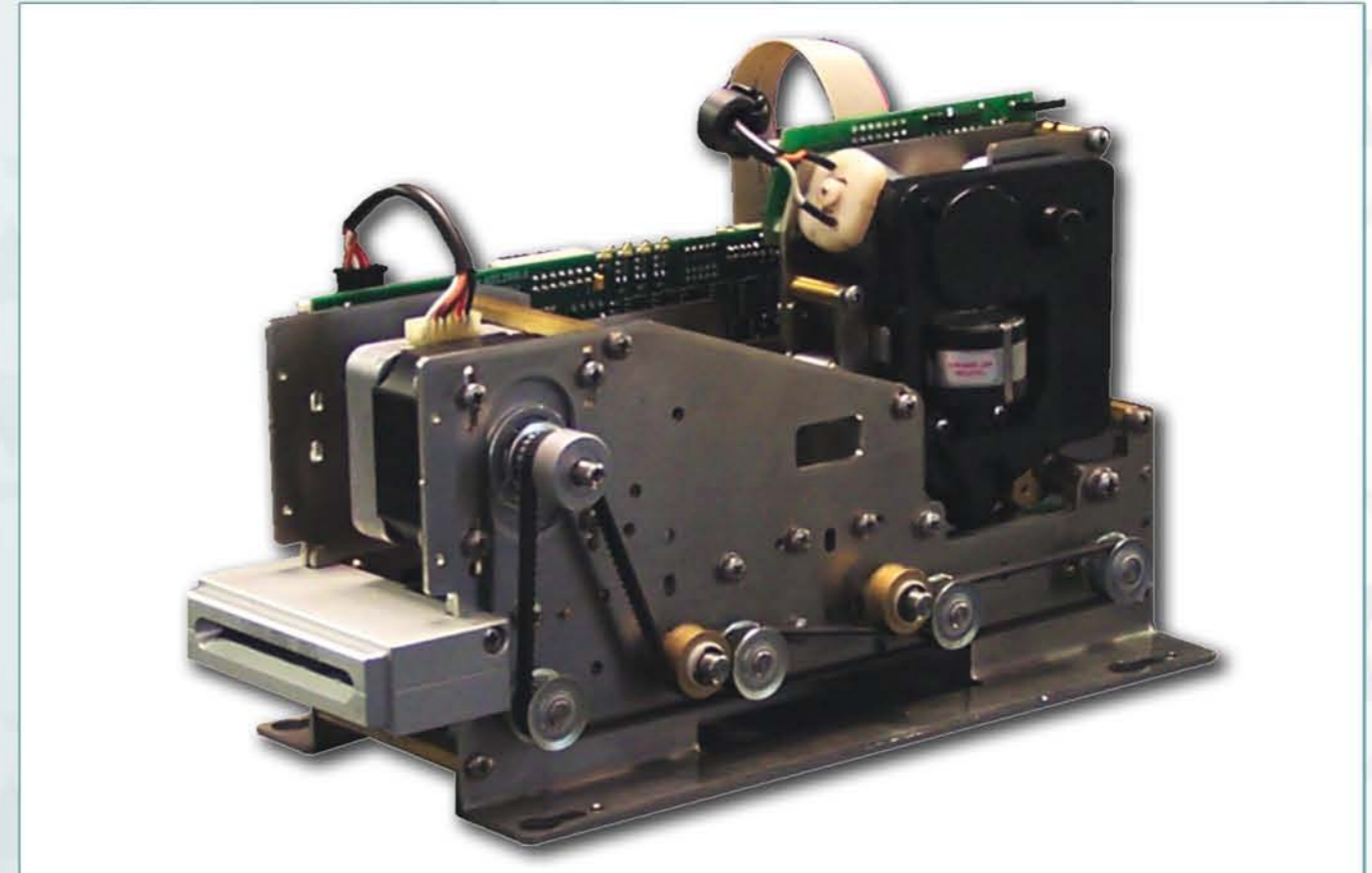
DUAL STORE
Ticket and card parking unit



METRO MODULE
Back exit ticket module for turnstiles



OBT_MECH
Ticket parking and mechanical puncher unit



ENC_RISC

Motorized reader encoder module for tickets and cards, ISO and TRANSAC available with:

Options:

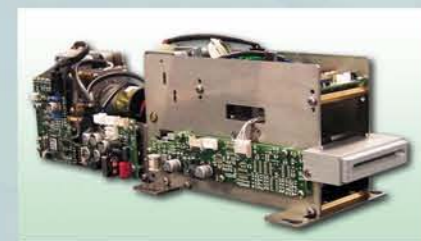
- Longitudinal or transversal impact printer
- R/W IC card unit
- R/W contactless card and ticket unit
- Shutter
- LCD display interface
- I/O optocoupled

Modules:

- FED899/R
- FED899/120
- FED899/90°
- FED2K6/2R
- DUAL STORE
- OBT_MECH
- METRO MODULE

Technical features:

- Up to 4 LoCo/HiCo magnetic heads
- ISO and TRANSAC
- High speed operations
- Automatic adjustment of title thickness from 0,18 to 0,8 mm
- RS 232/422/485 interface
- Single power supply at 24 Vdc



TDS_THP/C_LESS
Thermal issuing machine for contactless tickets



ENC2K1/R
Magnetic reader encoder

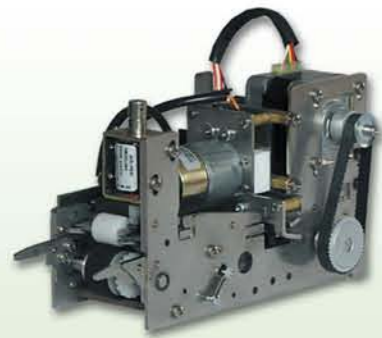


BCR
Barcode reader

Ideal for:

- Parking
- Motorways
- Access Control
- Fare Collection
- Automatic Pay Toll Systems
- Ticketing Systems





FED899/R – /120

Feeder for tickets 85,6 or 120 mm long, in fanfold or rolls, equipped with: motorised cutting unit, ticket parking unit and microprocessor control board. Coupled with the ENC_RISC it realises a fast ticket dispenser that can also be used in automatic cashiers. The parking unit present on the module allows to read a ticket, calculate fee, park a ticket and accept the insertion of the credit card. After processing payment and returning credit card to the user, the ticket can be swallowed or reloaded for magnetic validation, printing and return to user. The FED899/120 feeder for tickets 120mm long in roll is idea for motorways.



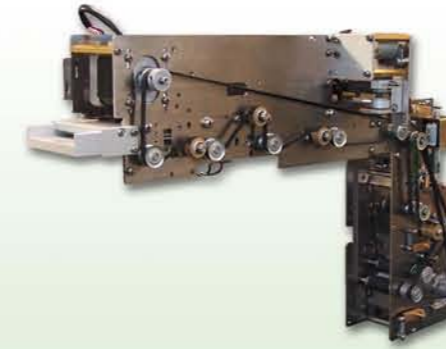
ENC2K1/R

This magnetic reader/encoder has the same sturdy features of the ENC_RISC module, but does not have the same expandability. The module allows to read and encode 3 ISO standard tracks, optionally chip cards and contactless cards. Shutter option is available. The communication protocol is fully compatible with the ENC_RISC module.



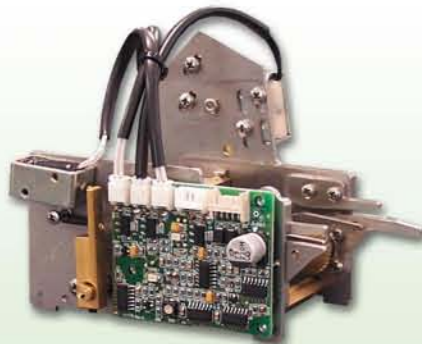
FED2R/2KR

The FED2R/2K6 is a horizontal double roll feeder for tickets in fanfold or in rolls. Each roll is selectable via software. The title can be with or without magnetic track and with variable thickness: of 0,18 mm for tickets in rolls and raging between 0,18 mm and 0,27 mm for tickets in fanfold or contactless cards in TFC1 fanfold format. This double feeder maintains all sturdy, flexible and reliable features of the FED899 and allows the realization of long lasting ticket issuing machines relying on two ticket stocks. The software allows to manage the choice of the stock from which ticket must be issued and to manage also two different titles or contactless tickets. A mixed system for both magnetic and contactless tickets is available.



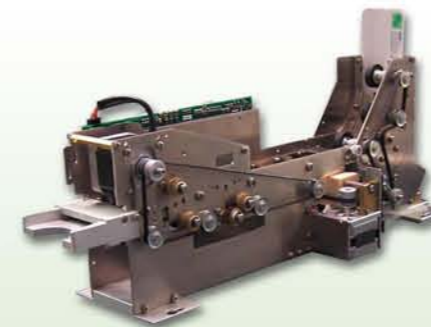
FTDS_TPU – 90° DOWN

The FTDS_TPU is a very fast issuing machine with double roll feeder, transversal impact printer in upper position and CPU RISC. The issuing machine is equipped with feeder, ticket parking and swallowing device developed vertically. Besides performances and flexibility of magnetic head configuration, it allows to have up to 4 magnetic heads (ISO or TRANSAC), in lateral and or central, in upper and/or lower position, or in double station allowing printing, reading and encoding in one only passing of the ticket.



DUAL STORE

Coupled with the ENC_RISC module, this ticket and card parking unit allows the module to read and encode a magnetic ticket and park it. After this the ENC_RISC can accept the insertion of a plastic card (e.g. prepaid cards). If credit is not sufficient, the ENC_RISC can park it after reading and accept a second prepaid card in order to complete the payment, return card to user, reload the first card and reset credit. The first card can be reloaded for validation and issuing. The use of this module allows the realization of flexible payment systems and is ideal for systems based on pre paid cards or bonus tickets.



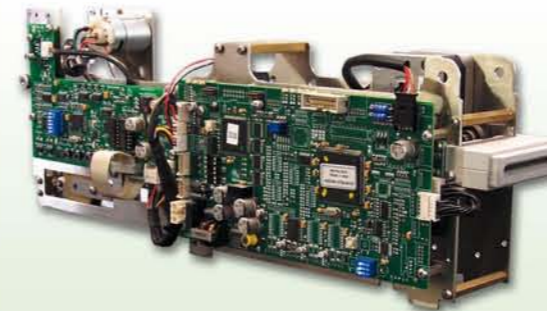
VAL2K5_TPD

The VAL2K5_TPD is a fast validator with transversal printer in lower position and CPU RISC. This fast validator is equipped with CPU RISC and validates the title in less than 1,5 seconds. "Despite" high performances, the VAL2K5_TPD, as all modules designed and produced by Adel Srl, maintains simplicity and easy maintenance, reliability and high efficiency.



METRO module

Coupled with the ENC_RISC, the rear exit ticket module allows the realization of validators for turn stiles. After magnetic validation and printing, the ticket is issued from rear side of the module towards the top. The present version is used for access control in railway stations, public transport, stadiums, exhibitions, amusement parks.



METRO 43/54 MM

The METRO 43/54MM is a fast validator with transversal printer in lower position and CPU RISC. This validator validates in less than 1,5 seconds. The METRO 43/54 MM boasts all features of the VAL2K5. Distinguishing characteristic are the following: more compact machine, optionally can manage ISO and not ISO standard tickets (up to 43 mm wide), print one longitudinal line on the lower side of the ticket.



OBT_MECH

This ticket parking and mechanical ticket puncher allows to park ticket after magnetic reading and accept a payment of toll by credit card. After payment the ticket can be reloaded in the ENC899 module, magnetically validated, printed and swallowed. During swallowing of the ticket the puncher invalidates the title magnetically right on the magnetic track



ENC_THS

The ENC_THP is a new generation reader encoder with full graphics thermal printer. Besides high performances and magnetic track configurability it distinguishes for high thermal speed (impact printing is optional) and a 32 Bit RISC processor. The module can host, besides firmware, applications in "C" language for a complete and automatic management of entry and exit lane for parking, access control, train and underground stations, motorways, ticketing systems and automatic teller machines.