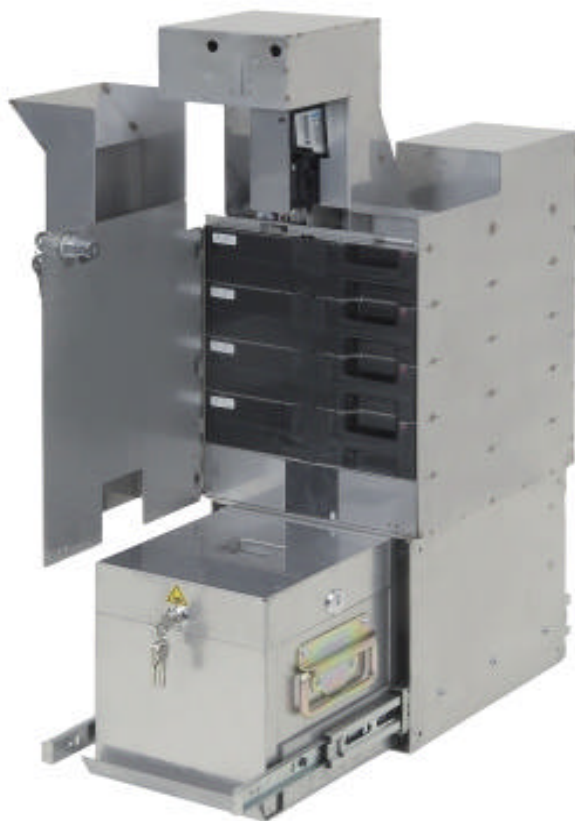


## COIN RECYCLING UNIT CRU

The **recycling device CRU**, provides a secured storage container and allows high capacities for processing coins in ticket vending machines. Coins are stored and returned as "Last In/First Out". Its rugged and modular design are OEM compatible and allows easy integration in different makes of TVM.



Coin Recycling Unit

The highly **intelligent software** allows to the recycling device a certain autonomy :

Recognition and combination of the cassettes.

Intelligent restitution to preserve the parts strongly used

Automatic counting of the cassette contents

Stays operationally even if one or more cassettes are out of order.

**Insertion module** made up of :

A mouth of insertion out of steel.

An obturation device and a channel of insertion controlled simultaneously by an electromagnet.

An optical sensor allowing to detect the passage of the coins.

**Recognition module** made up of :

A coins acceptor with parallel interface.

A mechanism of stripping actuated by a motor.

A mechanism of separation optimising the speed of processing of the introduced coins.

A mechanical support allowing the disassembling of the acceptor without tools (cleaning).

**Recycling module** made up of :

A metal rack integrating the compartments of the cassettes and the escrow.

4 or 6 cassettes of recycling of 120 coins each one, independent and identifiable.

An intermediate escrow managing coins return (cancellation, return differed).

**Cash-box module** made up of :

A secured drawer integrating a guiding system making easier the handling of the cash-box.

A cash-box presence sensor.

A removable cash-box, secured, with a capacity of 5l.

## TECHNICAL CHARACTERISTICS

### Coins control

Parallel interface  
Coins acceptor  
Diameter of coins : of 18.4 mm to 31.5 mm  
Thickness of coins : of 1.2 mm to 2.4 mm

### Capacity

Number of cassettes of storage : 4 or 6  
Number of coins per cassette : 120

### Operation speed (Model 4 cassettes)

Coins control and storage : 1.3 to 1.6 [s]  
2 consecutive coins insertion : < 0.3 [s]  
4 coins restitution :  
1 coin x 4 cassettes : 0.9 [s]  
4 coins x 1 cassette : 1.4 [s]

### Communication

Interface of communication : RS232C  
Standard or on request Application program  
Communication Protocols according to DIN 66348

### Option

Possibility to add 1 or 2 secured hoppers reserves to increase the change return capacity.

### Technology

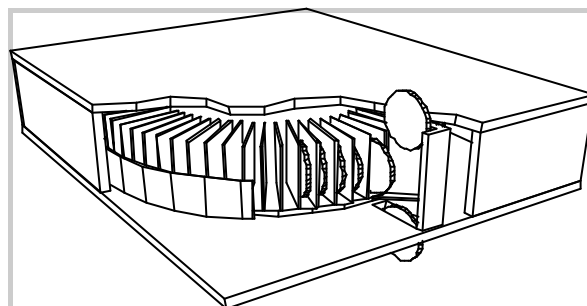
Processor : 8 bits, INTEL 80C32  
Clock : 1 [MHz]  
Memory FLASH : 56 KB  
Memory RAM : 8 KB  
Programming : C

### Power supply

Voltage : 24 [V] DC  
Stand-by current : 0.3 [A]  
Coins acceptance / ejection current : 1.2 [A]  
Initialisation current : 3.0 [A]

### Dimensions / Weight (Model 4 cassettes)

H x L x D : 735 x 224 x 374 [mm]  
Weight with 4 empty cassettes : ~36 kg  
Weight of an empty cassette : ~2.7 kg



Cassette

Technical specifications are subject to change without notice.

### SADAMEL TICKETING SYSTEMS

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