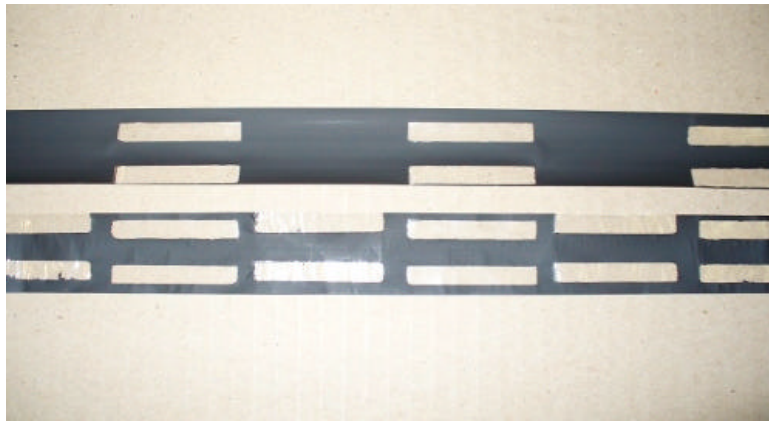
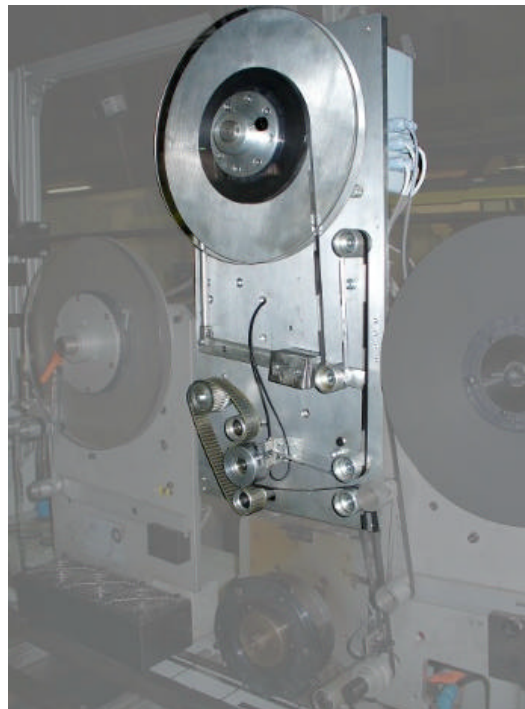


## SCRATCH OFF RECOVERY DEVICES

Apiel produces recovery systems for scratch-off film, which is used for personalization of cards. The product allows to re-processing rolls of film already used in hot foil printing module, realizing a considerable saving in production costs. The figure below shows an example of recovery in the scratch-off: the upper portion of the film is the result of primary processing. With traditional machines, the scratch is thrown away after a single processing. With the scratch off recovery device, the film is used a second time, obtaining the result shown in the bottom of the photograph.



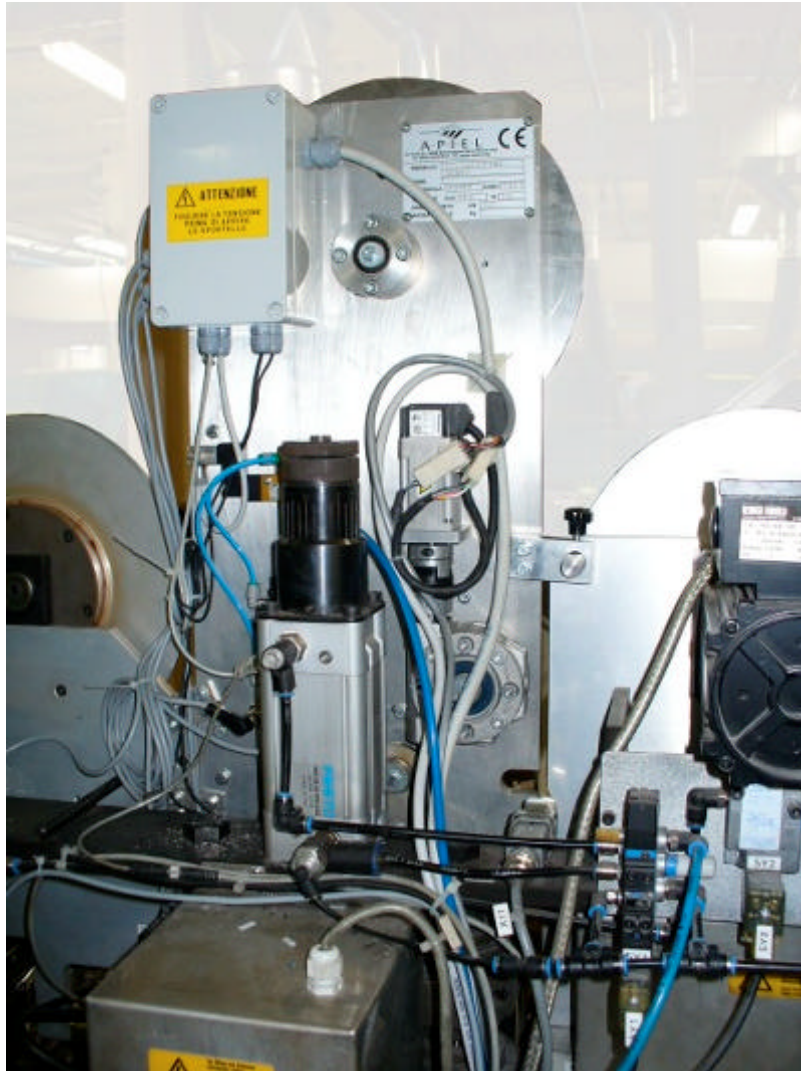
**Example of reuse of scratch off.**



**Scratch-off recovery device for  
CARDLINE Atlantic Zeiser**

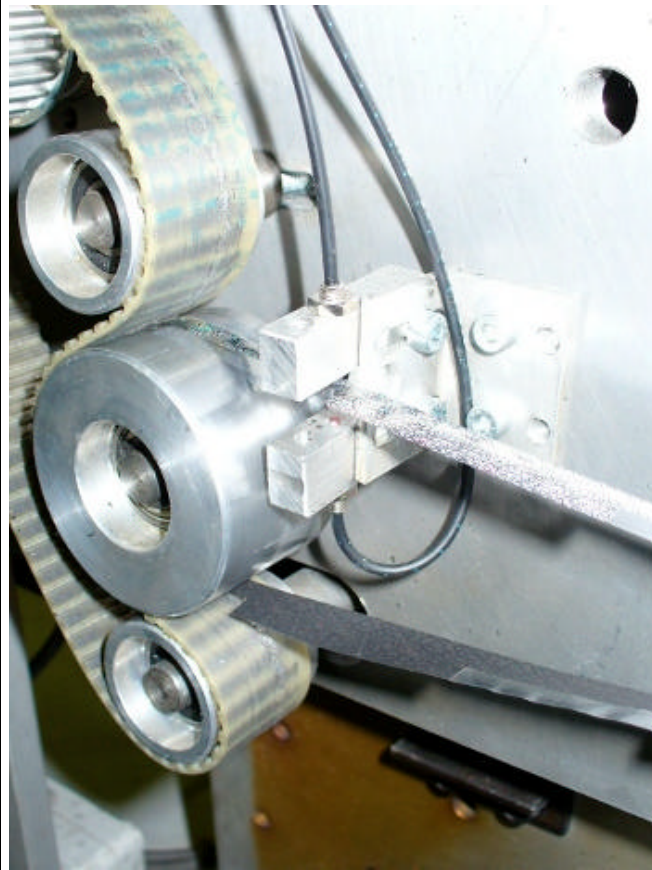
The system consists of the following essential elements:

- Support for the reel with brake for smooth running of the film.
- Film feeding group to feed the hot foil group, maintaining the scratch aligned to the cards.
- Sensors for the alignment of the film with the cards
- Operator panel
- Electrical panel with PLC



**Rear view of the scratch off recovery device**

The equipment we build, is able to positioning the intact part of the film under the wheel of the hot stamping module. The equipment we build, able to positioning part of the film intact under the wheel of hot stamping. The system, at production start, aligns the film to the card and keep it aligned throughout production.



**Film feeding group**



**Operator panel**



**Example of application**

The used scratch off reels, can be recovered only if the traits of virgin film are longer than the impression to make. In the personalization of ISO CR-80 card the maximum length of the impression is about 40mm.

If the scratch has graphical character to maintain oriented, the used reels must be rewound with a special accessory.

To ensure proper operation, the recovery device should only use reels worked (the first time) on the same hot foil module on which the recovery device is installed on.

The scratch recovery device we produce, are perfectly suited to Card Line Atlantic Zeiser hot foil modules. Are possible installations on other machines, to be assessed from time to time. Are possible installations on other machines, to be assessed from time to time.

## MODELS AVAILABLE

Are available single devices (one device installed on a personalisation machine) and double device (two device installed on a single personalisation machine with two hot foil modules). The double-device has a single electrical panel, a single PLC and a single operator panel for both groups.

The aligners also differ for the type of equipment.

We have a **base** model and an **extra** model The model **extra** has a brushless servo motor instead of a stepper motor, ensuring low noise, perfect operation even at very low speed. The model **extra** also has a touch screen operator panel 3 "1/2 in place of the panel 2x20 characters of the **base**. The model



**extra** has an additional photocell for the control of the scratch, and uses an incremental encoder to detect the chain speed. The encoder provides better performance at very low speed.

The available models are 4:

- **base** single device
- **base** double device
- **extra** single device
- **extra** double device



Example of insertion of the electrical panel inside Cart Line Module



Example of encoder assembly on hot foil module transmission.



Example of insertion of the electrical panel inside Cart Line Module

<b>TECHNICAL SPECIFICATIONS</b>	
Power supply	240V – 50/60 Hz
Electric consumption	0,3 Kw
Working temperature	From 5° to 40° C
Pneumatic supply	5 bar
Scratch width	From 8 to 30 mm
Produttività massima	25.000 card / ora
Maximum impression length (for card ISO CR-80)	40mm
Card material	Any
Standard card size	ISO CR-80 53.98 x 85.60
Optional card size	Any
Maximum roll diameter	300 mm
Standard Installation for	Card Line Atlantic Zeiser
Recoverable material	Only reels obtained on the module on which the recovery device is installed



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