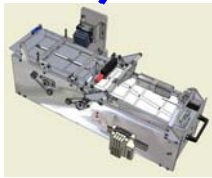
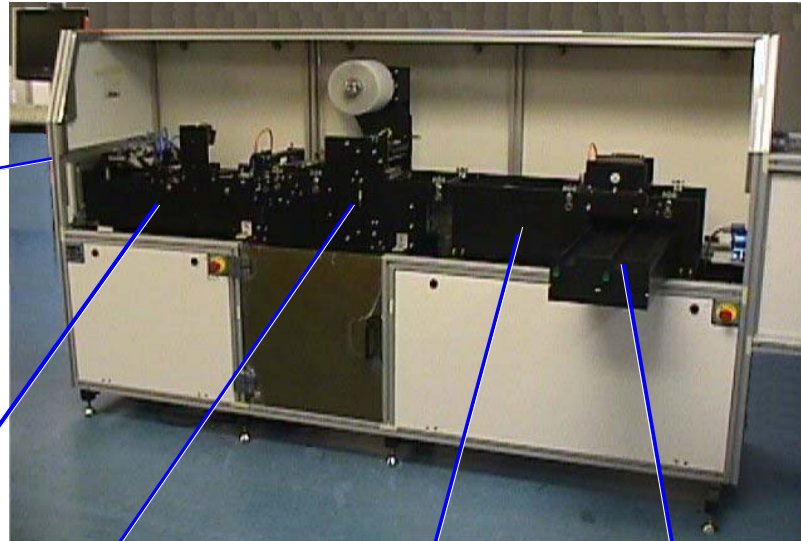


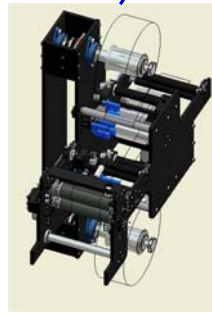
Euclid E2035 Finishing System for ID Cards and Similar Security Documents



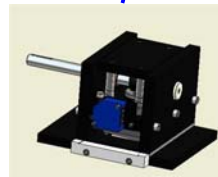
End view



Feeder



Laminator



Punch



Conveyors

The E2035 finishing system

The E2035 finishing system provides a conveniently sized, automated system for the finishing of a range of security documents, covering ID cards, driving licenses, health cards etc. It has a throughput of up to 4,000 cards per hour. Each system is built to customer order, and may be specified to operate with a range of materials and sizes, printed double or single sided.

Each system is built to order with an impressive range of options including, base stock audit control, registered laminates, hotfoiling and light surface embossing.

Unlike some finishing systems, all elements of the E2035 are designed in house by Euclid. By falling under the control of a single, integral p.c. application, material loss is minimised, whilst an accurate – and real time - audit trail can always be available.

Euclid E2035 Finishing System for ID Cards and Similar Security Documents



Operation

Card base stock (comprising card cores) is loaded into the feeder document tray. This has a capacity for up to 200 sheets. Laminate (upper and lower) is loaded upon the respective mandrels. Capacity depends upon the gauge used, however, this is generally sufficient for in excess of an hours' production. A single button is depressed to initiate the finishing cycle. Under machine control, card cores are fed into the pinch of the two heated laminates, and pass through a cycle of heat and pressure to effect bond. Tension is maintained on the web as it passes through a cooling process, then the cards are individually pierced from the web and automatically stacked onto the output conveyor for removal by the operator.

Residual waste laminate is rewound integral to the process for subsequent disposal.

Full error reporting and audit trail are included.

Security

The E2035 is password protected to two levels, User and Master. The User can only access system operation as an operator. Master level allows access to the set up of all system parameters, as well as viewing of the internal audit trail. The audit trail may be accessed external to the system through network connectivity. An optional barcode printed on the base stock can be used to control / track printed cores into the process. Integral camera control can be included.

Quality Assurance

The system includes a range of opto sensors to ensure that all positional discrepancies on the finished card are kept to a minimum, including core to card, any registered features etc. A typical E2035 will include in excess of 40 sensors related to correct function and accuracy of final product.

Standard Features

The E2035 is an advanced product, onward developed from an existing series with a lifespan exceeding 12 years and with feedback from 14 government installations worldwide. The E2035 is a fully specified system with an impressive range of standard features normally only found in much larger systems, which includes:

- Vacuum pickup of printed base stock sheets from the input hopper is far more reliable than traditional friction feed methods, particularly with Teslin™ core materials
- Expanding collets on laminate supply mandrels makes for speedy materials change
- Laminate tension rollers on web precludes need for tension adjustment regardless of supply roll size
- Double detect sensing included within the base stock feeder to preclude false material feeds

- Teflon heated rollers – most finishing systems use heated shoes. The passage of laminate over these will lead to surface scratching on cards and calls for a higher level of servicing. Heated rollers, which rotate in synchronisation with the laminate, ensure even heating of the laminate and zero scratching of the card surface. Maintenance is simplified with heater replacement taking minutes as opposed to hours
- Long life card punch provides accurate card cut with minimal maintenance
- 200 sheet input hopper (equivalent to 1200 Teslin™ ID1 cards or 800 paper ID2 cards)
- 300mm o/d max laminate supply rolls (equivalent to 2000 ID1 cards)
- Straightforward servicing
- Small footprint
(2842 L x 1693 H x 1172 D, Weight =385 kg)

Options

Each and every machine is built to customer order – there is no such thing as a “standard” E2035, although generally the level of customisation relates to the input,(document parameter, paper or Teslin™, layout of print) and the punch (card size and layout). The following details some of the more usual options requested:

- Card size – ID1, ID2, or other
- Card materials – paper cores or Teslin™
- Capability to operate with laminates that require accurate registration to a feature on the card (i.e. include a print working, hologram etc.)
- Embossing module installed before the punch enables accurate fine line surface embossing to be included on the card face
- Barcode control of printed base stock (card cores) with reject process for out of batch material
- Dual or single punch
- Camera tracking – matching card to database

Site Requirements

Single phase power: 220/230 V. 50/60 Hz.
Compressed air: 5 cfm @ 80 p.s.i.

Environmental Requirements

Operating temperature: 15-25 degrees Celsius
Relative humidity: 20-85% non condensing.