



Horizon[®]
high volume card personalization

Financial / EMV Solutions

Secure Identification

Horizon

[®]

You demand innovation, choice, flexibility, and a smarter way of doing business. NBS gives you all the advantages you want with the Horizon, one of the most complete end-to-end card issuance systems available.

The Horizon card personalization system is designed to be both scalable and flexible. The vast array of **Card Personalization Elements** ("CPE") offered on the Horizon platform meet the current and future needs of the mid to high volume card personalization markets. The built-in flexibility of the Horizon allows for seamless customization as production requirements change.

COST PER CARD

The single most important metric to most card personalization experts is cost per card. The Horizon platform achieves a significant advantage over competitive products in its range when it comes to cost per card. The Horizon's performance, reliability and spare parts/consumable pricing yield the industries lowest cost per card. *Now that's smart!*

COST OF OWNERSHIP

This fully customizable, modular system is proven to provide one of the lowest cost of ownership in the industry. The Horizon is designed with performance, reliability, cost and serviceability in mind. NBS offers a wide range of cost effective product support services ranging from full on-site support to unlimited access to a global team of product support specialists. If cost of ownership is important to you, then the Horizon is the ideal choice for your mid to high volume card personalization system. *Now that's economical!*

FLEXIBILITY

The Horizon hardware platform coupled with the SmartSys™ machine control software combines to make the NBS card personalization system simple to setup and operate while maintaining ultimate flexibility. The power of SmartSys™ is compatible with a wide variety of data formats and offers powerful yet easy to use tools such as a JDM (card design/layout), machine performance statistics, audit trail tools that provide full traceability and a powerful set of machine diagnostic capabilities. *Now that's easy!*

**... one of the lowest
cost per card solutions
in the industry...**

Horizon[®] Specifications

The following details the Card Personalization Elements ("CPE") available on the Horizon platform. The technical experts and sales teams at NBS know how to keep you up to speed with the rapidly changing card personalization market—whether you need assistance in facilitating a smooth migration from magnetic stripe to chip card technology or a quick response regarding any other card personalization concerns. For expert advice and hassle-free support, the answer to your hardware, software, training, and maintenance issues is one phone call away. NBS is the answer for all your unique card personalization needs.

INPUT CPE: Includes two removable "quick change" magazines each with a 250 card capacity which means faster and easier card handling including pre-loading of blank cards. The Horizon has the flexibility to be configured with up to three input CPEs (6 Magazines total).

MAGNETIC STRIPE ENCODER CPE: Several different encoding types are offered such as, 300 & 2750 Dualco and 600 Oe (for JIS A, B, C options). Other coercivity values may be available on a special order basis for an additional charge. Multiple encoder CPEs can be installed for user flexibility.

HIGH SPEED SMART CARD CPE: Uses an elegant, elevator mechanism to simultaneously personalize up to 12 contact smart card stations in a single CPE. The Horizon smart card CPE utilizes the NBS proprietary coupler. The cycle time for personalizing is reduced by the number of stations. The selection of the number of stations is dependent upon the maximum anticipated programming time per card as well as the throughput rate of the particular Horizon configuration.

COLOR GRAPHICS CPE: Provides clear, crisp photo quality color images at a high throughput rate of over 700 cards per hour. This CPE has one of the best resolutions in the industry at 300 dots per inch ("dpi"). It can print in color or monochrome as well as applying overlay to multiple selected areas or the entire card for the entire run.

LAMINATOR CPE: The heated roller laminate CPE enables a laminate material to be applied to the surface of a card providing increased security and durability. A special laminate material is applied to the card surface using pressure and heat. The speed and temperature required is determined by the composition of the card being used.

EMBOSSER CPE: The Horizon will support up to 3 separate embossers. Software automatically divides work between multiple embossers for optimal throughput. A throughput rate of up to 1100 cards/hour (40 characters per card) with 3 embossers -- front or rear indenter available -- tailor the system to the user's requirements.

TIPPER CPE: The Horizon supports multiple tippers for faster/easier production. The tipper's reliable plate design allows for a maximum of 11 lines on a card. The tipper also has an integrated low foil sensor.

CARD LABELER CPE: Applies labels to the front of a card. It works with any activation labels designed for use with plastic cards, on a 3-inch core, an outside diameter no larger than 8 inches in diameter and with bottom-off-first orientation.

CARD FLIPPER CPE: Adds a greater degree of flexibility to the Horizon. Adding a flipper right before the stacker correctly orients the cards for placement into down stream equipment. The flipper CPE also enables the application of both front and rear laminates (Polyester Patch).

CARD STACKER CPE: Includes two removable "quick change" magazines each with a 250 embossed card capacity. The Horizon has the flexibility to be configured with up to three stacker CPEs (6 Magazines total).

OPTIONAL MAILER: The addition of the Horizon mailer solution gives you the complete functionality of card personalization from start to envelope! Now you can personalize your cards and have them inserted into mail ready format giving you a totally automated card personalization solution.



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