HORIZON
HIGH VOLUME ISSUANCE

FINANCE **HEALTH**

BUREAU **TELECOMS**

TRANSIT **GOVERNMENT**

nbs
TECHNOLOGIES
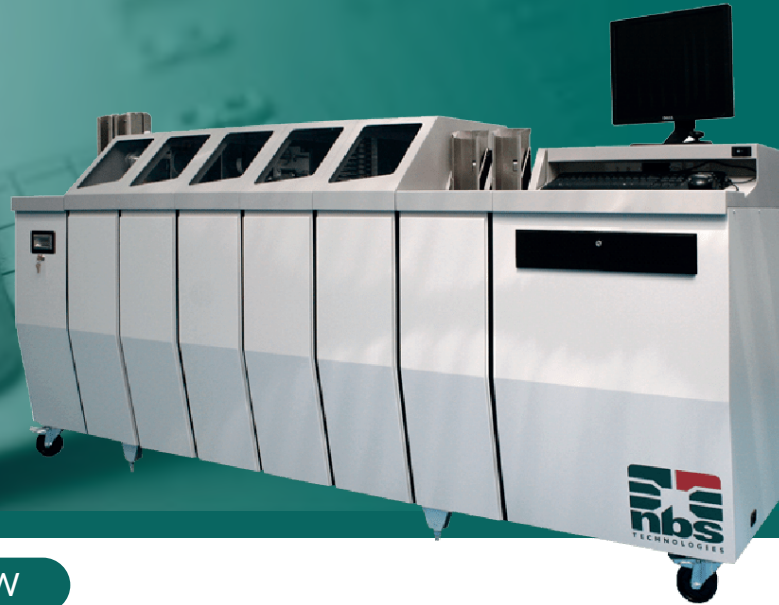
PRODUCT OVERVIEW

The Horizon card personalization system is a high-volume, high-speed system engineered with individual Card Personalization Elements (CPE's) to provide flexibility and customization to meet your specific requirements. The Horizon card personalization system is designed to meet central card issuance needs of financial institutions, service bureaus, government and healthcare organizations, telecommunications companies, and other organizations requiring high volume card issuance capabilities.

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.
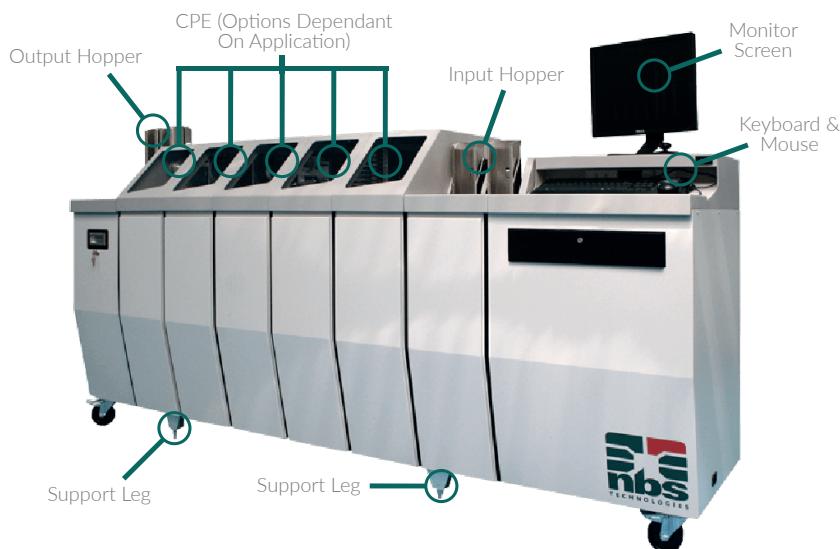
The Horizon hardware platform coupled with the SmartSys™ machine control software combines to make the NBS card personalization system simple to setup and operate while maintaining ultimate flexibility. The power of SmartSys™ is its compatibility with a wide variety of data formats and offers powerful 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.

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.

PRODUCT BREAKDOWN

Output Hopper

CPE (Options Dependant On Application)

Input Hopper

Monitor Screen

Keyboard & Mouse

Support Leg

Support Leg

UTILISES SMARTSYS SOFTWARE MACHINE CONTROL

Powerful, yet easy to use Windows® 10 application. Designed to accommodate almost any Data file format with operator interface that simplifies use. SmartSys has all the capabilities necessary to be part of PCI compliant environment.

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 coercive 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 a PCSC compliant 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.

CONTACTLESS CARD CPE

This single station Contactless card CPE supports ISO 14443 type A & B as well as the Mifare range of cards. The CPE combined with SmartSys MCS software can also be used in read back and look up mode.

COLOR PRINTER CPE

Provides clear, crisp photo quality color images at a high throughput rate of over 800 cards per hour depending upon image size and dye sublimation ribbon used. 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. The color printer is available for top or bottom of

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).

LAMINATOR CPE

The heated roller laminate CPE enables a protective 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 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 LABELLER 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 STACKER CPE

Includes two removable "quick change" magazines each with a 200 embossed card capacity. The Horizon has the flexibility to be configured with up to three stacker CPEs (6 Magazines total).

MONO PRINTER CPE

The Monochrome Thermal Graphics Printer CPE produces high quality thermal graphic images (such as barcodes, text, logos, etc.) at minimal cost. It uses the thermal print head (300 dpi, 11.8 dmm), tape for card cleaning, and a removable ribbon plate assembly for easy ribbon changing and maintains high throughput rates while conserving ribbon usage. Available for top or bottom of the card printing.

TRANSPORT CPE

The Transport CPE can be used preserve CPE spaces for the future upgrades or can used with optional User Pro SDK to integrate non NBS hardware elements. The Transport CPE is a high throughput Horizon element, which can be ordered at time of purchase or field installed into existing systems.

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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