

NBS introduces a new and innovative approach to machine and job control for card production and personalization in the form of the SmartSys™ framework. Our newest machine control software suite built from the ground up and forming the basis of our overall MCS 'go-forward' strategy.

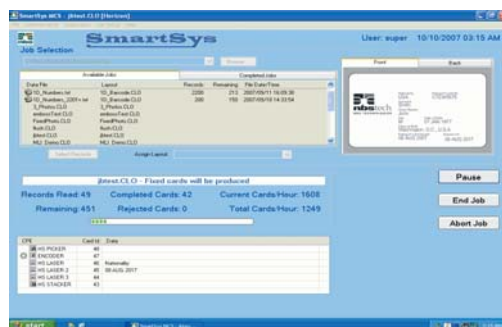
The SmartSys™ Suite is a new and innovative approach to machine control software (MCS). This suite of software consists of a core machine control application and a growing list of optional value added applications. The SmartSys core includes the User Interface, Machine Setup, Job Definition Tools, Card layout/design tools, Data Encryption tools, Audit trail/machine reports and System Diagnostic tools. Each element of the core application has been designed to maximize flexibility while maintaining a simple/user friendly interface. The SmartSys core serves as the underlying framework for connecting together the suite of available optional applications allowing organizations to add features and functionality as their needs change over time.

The SmartSys core consists of the following functional blocks: (Note: Access to these functional blocks is all under password control. Accessibility to certain features and functions can be limited or not limited based on your site's needs)

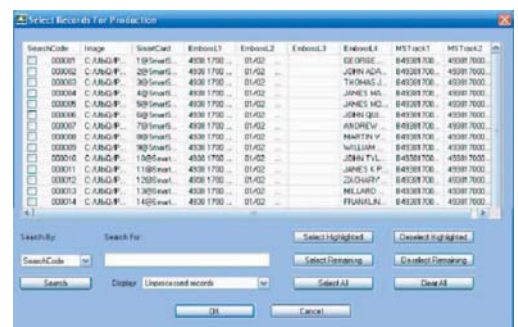
User interface

This section is primary interface with the Operator. Provides a simple button click interface to start, stop and or pause production it also will display pop up windows that alert the operator of intervention required and machine errors. In all cases the pop up window will prompts the operator with all viable actions to resume production. It also provides the operator with a simple to use menu of available jobs/card layouts to run as well as a record selection tool.

Main User Interface Screen



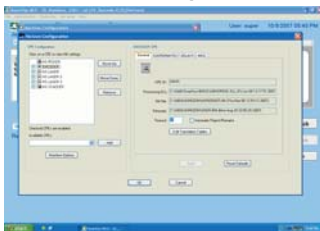
Record Selection Screen



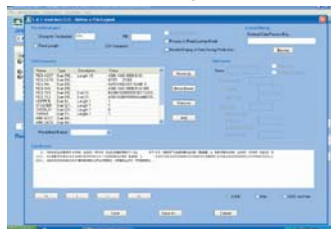
MACHINE SETUP

This section allows the machine to be set up and adjusted as required for the current production needs. Card personalization elements can be activated for turned off as needed with click of the mouse. This section also allows your technical staff access to detailed performance parameters that might require adjustment.

Machine Setup Screen



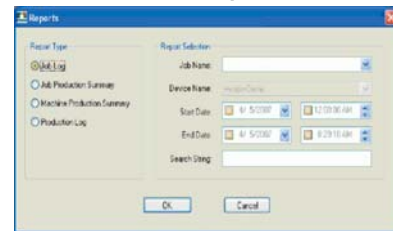
Data File Setup Screen



AUDIT TRAIL & MACHINE REPORTS

SmartSys has powerful yet simple to use reporting functions. Audit trail reports can easily be customized to include any and or all fields from the database record along with time stamp of when the card was produced. The software also includes few standard reports that summarize all production activity.

Machine Reports



JOB DEFINITION

This section allows production jobs to be created and saved that facilitate repetitive production of certain card type. A card layout and corresponding machine configuration can be saved together for the production of certain card type and therefore are easily available for recall the next time this card type is to be produced. This tool also limits opportunities for errors by machine operators by linking known good setup and preventing unintentional changes.

CARD LAYOUT EDITOR

The card layout editor is used to design the front and back of the card. The data records are assigned to specific objects on the card and the card personalization elements are assigned to produce the object.

Card Layout Editor



DIAGNOSTICS

SmartSys contains a number of strong diagnostics tools that assist in isolating faults as well as some built in reports that collect data that will make trends analysis easier. This coupled with a power arcnct communication monitor that is very useful fault isolation. Note: The diagnostic tools described are only available for Horizon Series products.

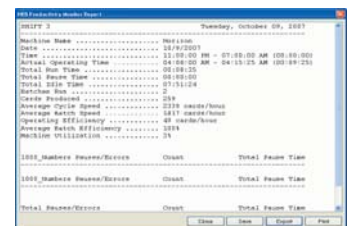
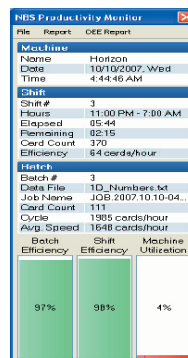
OPTIONAL VALUE ADDED APPLICATIONS

SmartSys Productivity Monitor™

Productivity Monitor™ is an optional application that tightly integrates with SmartSys core application. The main function of this application is to track general daily operational information and shift efficiency/productivity. There are three major areas of data capture, which include machine, shift and batch run data that is viewable on screen via a standard interface. Productivity Monitor is an add-on module that can be added without the need to modify the core MCS software

DATA ENCRYPTION TOOL

This is the central component which ensures compliance to Mastercard®, Visa® card holder information security program. SmartSys provides two distinct and important roles in fulfilling these requirements. It establishes certificates used for securing the environment and provides capability for manual file encryption.



Corporate Headquarters
Canada
703 Evans Avenue
Toronto, Ontario
M9C 5E9
Canada
tel: +1 416.621.1911
fax: +1 416.621.8875

Contact our NBS card personalization experts for full details on this and other card personalization products at:

Europe, Middle East, Africa, South America
B1 Moorfield Point
Slyfield Industrial Park
Guildford, Surrey GU1 1RU
United Kingdom
tel: +44 (0)1483 563 200
fax: +44 (0)1483 511 189

North America
10925 Bren Road East
Minneapolis, Minnesota 55343
USA
tel: +1 952.912.9400
fax: +1 952.912.9439

Asia Pacific
PO Box 780
Hurstville BC
NSW 1481
Australia
tel: +61 (2) 9546.6841
fax: +61 (2) 9546.6851