

# Desktop Card Embosser

By NBS Technologies

## Advantage™ M20

The Advantage M20 is the latest in the NBS Advantage embosser family of products. Secure, reliable and affordable, the Advantage M20 has been designed specifically for the instant personalization and issuance of EMV compliant debit and/or credit cards.

The Advantage M20 possesses a stainless steel 120-character daisy wheel for embossing, together with simultaneous front and rear indenting. A full range of international characters is available which makes this a truly universal embosser.



The Advantage M20 is provided with either a standard Windows driver for seamless integration with existing card personalization and issuing applications, or with a specific software library to allow its many features to be included in custom applications and solutions. We can also supply Xpressi™, NBS's distributed issuance solution designed especially for financial institutions wanting to issue cards at branch level.

## THE DESKTOP EMBOSSE AND ENCODER DESIGNED FOR THE SECURE AND RELIABLE INSTANT PERSONALIZATION AND ISSUANCE OF CREDIT AND DEBIT CARDS

### THE ADVANTAGE™ M20 OFFERS THESE KEY FEATURES AND BENEFITS:



#### DESKTOP FLEXIBILITY

- 120 character embossing wheel
- Dual (front & rear) indent available
- Anchors for bolting down the embosser to its operating station



#### NETWORK AND ENCODING

- High/low coercivity magnetic stripe encoding
- Contact and contactless smart card personalization
- Triple DES encryption
- Contact, Contactless or both



#### EASY-TO-USE

- 100-card hopper for automatic card feeding
- Single card front input feeder
- Access cover secured with electronic lock under software control

CONSULTING

SOFTWARE

HARDWARE

SMART CARD MANUFACTURING



Total  
Card Solutions

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## Embosser Specifications

<b>Embossing method</b>	120 characters stainless steel daisy wheel embosser, easy installation of new types Rear indenting, easy cartridge replacement Tipping Front indent (optional)
<b>Card encoding options</b>	Magnetic stripe encoder, high/low coercivity ISO 7816 smart card personalization [EMV compliant] (optional) ISO 14443 contactless card personalization (optional) Triple DES encryption
<b>Embossing speed</b>	1 card in 30 seconds (excluding chip personalization)
<b>Embosser interfaces</b>	Operator panel : 2x24 LCD display, 12 keys numeric keypad, 5 status LEDs Communication: RS232, Ethernet, USB 2.0
<b>Software drivers</b>	DLL for Windows 2000/XP/Vista/W7 drivers available
<b>Embossing characteristics</b>	OCR 7B, Standard Gothic Rear Indent: OCR B1 Front Indent: OCR B4, OCR B1  <i>A full range of other emboss/indent characters and fonts is available</i>
<b>Card capacity</b>	100 cards input hopper, automatic feeding 50 finished cards output hopper, hopper full sensor 30 cards reject bin, bin full sensor Single card front input feeder
<b>Weight</b>	86 lbs (39kg)
<b>Power source</b>	110-230 Volts, 50-60 Hz, 200W CE, CSA C & US, FCC Class A EN 60950
<b>Dimensions</b>	26.4" (670mm) D x 17.9" (455mm) W x 11.6" (295mm) H
<b>Environment</b>	Operating temperature: 10 - 40 °C / 50 -104 °F, Relative humidity: 20% to 80% non-condensing Storage temperature: 0 - 55 °C / 32 - 131 °F, Storage humidity: 5 - 95% non-condensing Transport: -15 - 55 °C / 5 - 131 °F, 5 - 95% RH (up to 20 hours)
<b>Security</b>	Mechanical and electronic software controlled locks

## Card Specifications

<b>Types</b>	CR80 – PVC – 0.76mm, 30 mil / ISO/IEC 7811, ISO/IEC7816
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### EMV INSTANT ISSUANCE SOFTWARE SOLUTION

Couple your Advantage M20 embosser with Xpressi™ software for an EMV branch card issuance solution that is cost effective and easy to implement. Supporting multiple EMV configurations, chip types and even printer brands with one system, this solution gives an issuer the flexibility to keep their future expansion and operation options open for change.



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