



## PRODUCT OVERVIEW

The Advantage M20 is part of 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 includes 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 and suitable for all markets around the globe.

- Instant card issuance
- Program smart chips both contact & contactless
- Emboss, indent, encode (include), tip in one pass
- Magnetic stripe encoding
- Software lock
- 100-card hopper for automatic card feeding
- 120 character embossing wheel



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

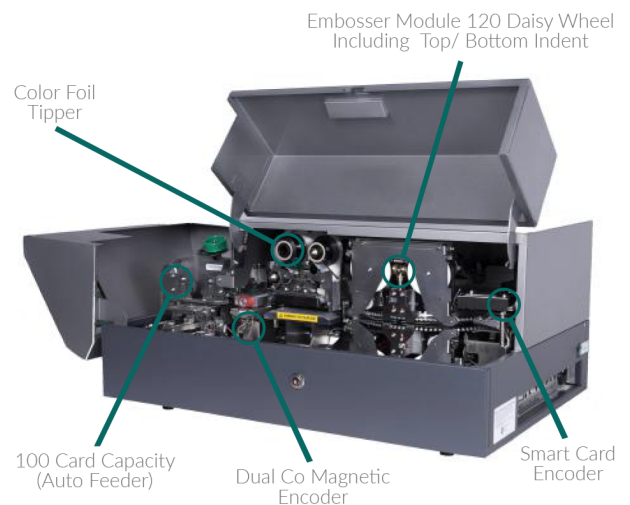


- High/low coercivity magnetic stripe encoding.
- Contact and contactless smart card personalization or both.
- Triple DES encryption.



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

## PRODUCT BREAKDOWN



## SPECIFICATION DETAILS

### PRINT METHOD

#### Embossing method

120 character (No's) stainless steel daisy wheel embosser, easy installation of new types

New type/characters (include characters)

Rear indenting, easy cartridge replacement

#### Embossing speed

1 card in 30 seconds (excluding chip personalization)

#### Tipping

Front indent (optional)

### CARD

#### Card Type:

SO 7816 smart card personalization [EMV compliant] (optional)  
ISO 14443 contactless card personalization (optional)

#### Card encoding options

Magnetic stripe encoder, high/low coercivity  
Triple DES encryption

#### Card capacity

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

#### Card Specifications

Types CR80 - PVC - 0.76mm, 30 mil / ISO/IEC 7811,  
ISO/IEC7816

### EMBOSSING SYSTEM

#### Characteristics

OCR 7B, Standard Gothic

Rear Indent: OCR B1

Front Indent: OCR B4, OCR B1

A full range of other emboss/indent characters and fonts is available

#### Embosser interfaces

Operator panel : 2x24 LCD display, 12 keys numeric keypad, 5 status LEDs

Communication: RS232, Ethernet, USB 2.0

#### Security

Mechanical and electronic software controlled locks

### SYSTEM

Display: LCD display (16 characters per line)

Software Drivers: SDK (NBS Hard coded version in Smartsys software)

Connection Interfaces: Ethernet and USB (cable 3m in length or less)

Security: 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

### DIMENSIONS

26.4" (670mm) D x 17.9" (455mm) W x 11.6" (295mm) H)

Weight: 86 lbs (39kg)

Transport  
-15 - 55 °C / 5 - 131 °F, 5 - 95% RH (up to 20 hours)

### POWER SOURCE

110-230 Volts, 50-60 Hz, 200W  
CE, CSA C & US, FCC Class A  
EN 60950

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