ID CARD PRINTING
SOLUTION

**ID Card Printing Solution**

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**iDP** IDP

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03

# AN INNOVATIVE ID CARD PRINTER TECHNOLOGY LEADER

IDP, a leading global manufacturer of Plastic Card Printers, is a trusted source to governments, corporations and universities in over 58 countries.

Since 2005, IDP has engaged in the development, design and manufacture of high-performance plastic card printers with the latest mechanical, electronic, and software technology.

Our success has been grounded by our expertise in the industry.

IDP provides a complete range of desktop plastic card printing solution for desktop color printing, security laminating, and for all of the industry's common magnetic, contact, and contactless smart card encoding.

IDP's printers are used everywhere plastic cards are used, such as employee badges, student IDs, payment cards, access control badges, customer membership, loyalty cards and more.

As a pioneer of SMART card printing technology, our goal is to make plastic card printing widely available, offering business leaders the guidance for distributed or centralized printing projects, and to be the future-ready leaders in the industry.

We look forward to working with you.

smart 81   smart 70   smart 51   smart 31   smart 21   smart BiT   smart PORTABLE

# smart SERIES

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## smart SERIES

**SMART SERIES :** The IDP SMART series card printers are manufacturerd by IDP Corp., Ltd. They are highly engineered dye-sublimation plastic card printers which provide you with maximum efficiency for production of plastic cards in commercial and government applications.
The SMART Photo ID printers range from valued-based entry-level to feature-rich professional units. Printers are available in single or dual-sided and offer many additional features, including a flipper, lamination modules, ethernet connectivity, and various encoders such as magnetic stripe, contact, and contactless. The enhanced FINE™ Imaging Technology of the SMART series optimizes printer output to reproduce life-like images and color tones.
There is a SMART printer to meet your business needs:
Employee IDs, Banking cards, Membership cards, Access control badges, Government credentials, and much more.

### TECHNOLOGY

_ Crystal clear printing with IDP's exclusive FINE™ Imaging Technology
_ Instant direct heating laminaton - fastest laminator technology in the industry *Patent
_ Rapid Retransfer Printing Technology *Patent
_ Field upgradeable options for dual sided printing and laminating
_ Field upgradeable encoders for magnetic stripe, contact and contactless smart cards
_ Automatic ribbon recognition and no need for calibration motor
_ Eco-friendly rewritable printing (SMART-31R & 21R)
_ 500 cards input hopper and scratch free feeding and exiting (SMART-70) *Patent
_ High-durability: Ruggedized metal frame and shafts, steal ball bearings (SMART-51, 70 & 81)
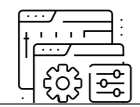
### SOFTWARE

_ SMART SDK, to develop customized applications
_ SMART Utilities, to check working states and adjust configurations
_ SMART IDesigner for designing and issuing cards
_ On-line life-time technical support

### CONVENIENCE

_ User-friendly design for desktop environment
_ LCD & LED for status display of printer
_ Easy Thermal Print Head (TPH) replacement
_ Front input and output hoppers (SMART-31 & 51)
_ Drop-in ribbon cartridge (SMART-21, 31 & 51)
_ Full modular design (SMART-70)
_ Drawer type ribbon cartridge (SMART-70 & 81)

### EASY ISSUING
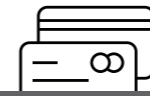
**SMART IDesigner** makes it easy to design and print professional badges for a multitude of applications. IDesigner allows you to add images, text, barcodes, manage DB and provide state of the art encoding. SMART IDesigner ensures appropriate card issuance and data management with our SMART series printers. IDesigner offers a simple wizard and templates for convenient and instant card design.

| | |
|---|---|
| _ Design and print (Image, Photo and Text) | _ Plug-in for supporting external devices |
| _ 1D, 2D & QR Code Barcode printing | (Sign pad, Camera, Scanner) |
| _ Auto portrait (Auto face detection, | _ Convenient card issuance and data management |
| adjustment of size & position) | _ Magnetic stripe (MS), contact & contactless |
| _ Printing of sequential numbers | smart card encoding by using plug-in program |
| _ Card design templates | |

SMART IDesigner is included free with the purchase of a SMART Series Card Printer.

### HIGH SECURITY

**SMART Series** provides effective physical and electronic security features for access control and data encryption.

| PC Authentication | Data Encryption | Password | Physical Lock |
|---|---|---|---|

_ SMART series has a password verification function to provide administrator and user authentications.
_ SMART series can set a specific authorized PC for encoding and printing cards.
_ SMART series can encrypt data transmitted on USB and can support SSL (Secure Socket Layer) protocol on ethernet communications.
_ SMART-51, 70 & 81 series are equipped with a Physical lock and Kensington lock system on the printer or each module to increase security.

### POWERFUL NETWORKING

**SMART Series** can utilize the network printer servers for encoding and printing cards.

| SSL (Secure Socket Layer) |
|---|

_ SMART Ethernet module can not only print cards but also encode MS, Contact and Contactless smart card through the network.
_ SMART Ethernet module has OCP(Open Card Print) protocol which can encode and print cards by using commands on multiple platforms without installing the printer driver.

• App developed by OCP (Open Card Print) on Android or iOS mobile device

Google play          App Store

# smart 81

SMART-81 is a new generation retransfer card printer that offers the fastest production speed in the industry.

IDP's innovative retransfer heating technology- Rapid Retransfer Printing technology or "RRP" provides the fastest "Ready to Print" metric in the industry. No more waiting several minutes for your out-dated retransfer printer to heat up.
RRP technology from IDP offers power-on and Ready to Print in only seconds.

The SMART-81 produces higher-quality, sharper-looking images than traditional card printers. It is the perfect choice for demanding applications which require deep dark colors with infinity-edge (full-bleed) graphics on blank or technology cards.

## Precision in Every Print,
## Excellence in Every Card!

The FASTEST Boot-up speed

High volume capacity

Infinity Edge Printing Quality

Anti-dust circulation

Advanced Security Compliant

Robust & Innovative Product design

## PRINT NOW. PRINT MORE.

**No more waiting, save your precious time** - SMART-81 gives you the fastest production speed and allows you to experience simultaneously power-on and print in only seconds unlike the traditional dye-sublimation card printers which take several minutes.

Innovative retransfer head heating control technology creates more sharp-looking images and text quality every time.

**Perfect printing on embedded chip cards** - SMART-81 can print graphical card design right to the edges even on smart cards with uneven surfaces. It's the ideal choice for customers that demand more functionality and high security such as government, bank, education, and healthcare.

## FORGET ABOUT DUST & THEFT.

**Intelligent anti-dust circulation** - Designed with fine dust filter and disposable cleaning roller to help flawless printing quality by removing dust and other particles.

An Intelligent air circulation structure effectively controls the temperature in the printer during continuous card issuance.

**Advanced security compliance** -SMART-81 prevents theft and counterfeiting of sensitive financial resources.
It is equipped with a physical and electronic locking integration system that complies with the **International Banking Instant Issuance Security Standards.**

Additionally, a secured bolt-down fixture supports high-level security ID card demands.

## ADVANCED
## SMART-81 LAMINATOR

_ Clear, Holographic Film
_ 20 sec./card | 180 cards per hour
_ Drawer type cartridge for Laminator Film
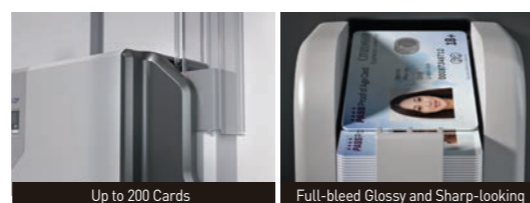_ Convenient IR communication between modules

# smart-81

## RETRANSFER
## ID CARD PRINTER

_ 600 & 300 dpi Single or Dual Sided Printing

_ Fastest Boot-up speed

_ Print Speed: Max. 25 sec./card (YMCK) | 43 sec./card (YMCKK)

_ Infinity Over-the-Edge Printing Quality

_ High Volume Input hopper (up to 200 cards)

_ Intelligent Anti-dust circulation

_ User-friendly Graphical Interface LCD

_ Internal Flipper Mechanism

_ Physical & Electronic Locking system

_ Robust & Innovative Product design

**1 RAPID RETRANSFER PRINTING TECHNOLOGY** *Patented

Power-on and Print in **Only seconds**
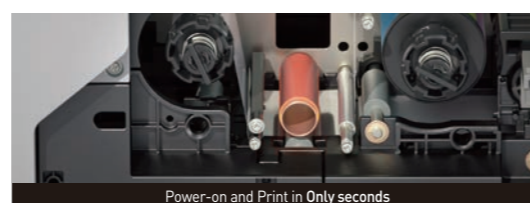
**2 HIGH VOLUME CAPACITY, PERFECT OUTPUT**

Up to 200 Cards

Full-bleed Glossy and Sharp-looking

**3 INTERNAL FLIPPER MECHANISM & ERROR CARD BIN**

Internal Flipper Mechanism

Error Card Bin

**5 ADVANCED SECURITY PHYSICAL & ELECTRONIC LOCKING SYSTEM** (*Option)

Physical & Electronic Lock

Bolt-down fixture

**4 ANTI-DUST CIRCULATION & USER FRIENDLY**

Intelligent Air Circulation

Sturdy Cable Cover

**6 CUTTING-EDGE INTEGRATION ALL-IN-ONE TABLET RETRANSFER PRINTER** (*Option)

Tab & Print - Effortless Printing

11-inch Built-in Tablet

# smart 70

The SMART-70 is a high-performance large capacity ID card printer designed with a unique modular concept that can support various printer configurations to meet the users needs. As seen below, each module is a separate component that is easily attached and synchronized to deliver the perfectly printed and or laminated card. Ideal applications include University ID's, student badging, secure credentials, access control badges, school photography, K12 school IDs, print bureaus, loyalty cards, and more. Virtually any application where the user demands high capacity and high speed printing are well suited to the SMART-70 Series.

Specialty applications such as duplex monochrome, scratch-off personalization, and ultra-high speed (9.9sec YMCKO) can be accommodated with IDP's SMART-70 Dual Printer configuration.
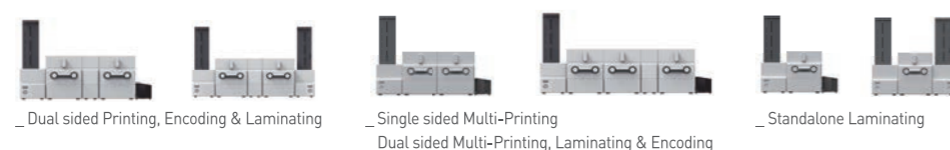
## TAILOR-MADE MODULAR DESIGN, ULTIMATE ID CARD PRINTER SOLUTION

INPUT HOPPER     PRINTER     HYBRID FLIPPER

LAMINATOR     OUTPUT HOPPER     FULL MODULAR

## SCALABILITY

_ Single sided Printing

_ Single sided Printing & Laminating

_ Dual sided Printing, Encoding

**JUST CONNECT EACH MODULE AND SYNCHRONIZE**

_ Dual sided Printing, Encoding & Laminating

_ Single sided Multi-Printing
_ Dual sided Multi-Printing, Laminating & Encoding

_ Standalone Laminating

### MULTI-PRINTER COMBINATION

**9.9**SEC
**364 cards/hour**
Partial Area Printing(YMCKO)

**12.5**SEC
**288 cards/hour**
Full Area Printing(YMCKO)

* For Single sided Partial area or Full area Color Printing

## FEATURES

INPUT HOPPER  |  PRINTER  |  HYBRID FLIPPER  |  LAMINATOR  |  OUTPUT HOPPER  |  STACKER

**1**
_ Large Capacity Max. 500cards
_ Scratch Free
_ Hook for Card-In
_ Residual Q'ty Sensor
  Near empty & empty alert notifications
_ High Durabillity / Indicator LED
_ Physical Lock & Kensington Lock

**2**
_ High Speed Printing
  Max. 1,000 cards/h (Mono), Max. 225 cards/h (YMCKO)
_ Enhanced FINE™ Imaging Technology
_ Drawer type ribbon cartridge
_ Installable MS & Contactless Encoder
_ LCD & Button / Indicator LED
_ High Durability
_ Physical Lock & Kensington Lock

**3**
_ Installable Encoding modules
  Contact & Contactless Smartcard Encoder
_ Card Flipper
_ High Durabillity / Indicator LED
_ Error Card Bin* (Max. 30 cards)
_ Physical Lock & Kensington Lock

**4**
_ No warming-up time
  Instant direct heating mechanism
_ Scratch Free
_ Drawer type film cartridge
_ LCD & Button / Indicator LED
_ High Durabillity
_ Physical Lock & Kensington Lock

**5**
_ Large Capacity Max. 500 cards
_ Scratch Free
_ Residual Q'ty Sensor
  Full Space alert notifications
_ High Durability
_ Indicator LED
_ Physical Lock & Kensington Lock

**6**
_ Max. 100 cards

* If encoder or scanner options are not selected, Error card bin will be provided.
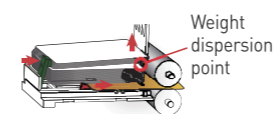
300 Cards loading
500 Cards loading

### VERSATILE HOPPER
_ High Volume In/Output Hopper (Max. 500)
_ Multi-Hopper
_ Residual Q'ty Sensor
_ Physical Lock & Kensington Lock
_ Scratch Free

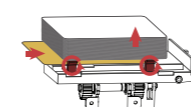### STAND-ALONE LAMINATOR

TURN ON AND
**JUST LAMINATION NOW!**

No Need For Device Driver or PC

### INPUT HOPPER
Weight dispersion point

To disperse the weight of the stacked cards, the card mallet pushes cards to the weight dispersion point and the lowest card is drawn out by hook. This process prevents the stacked cards from making scratches on the lower card's surface.

### OUTPUT HOPPER
When a card is put in the output hopper, to protect the card's surface, the loaded cards are raised by the support beam which is operated by the internal CAM.

### HIGH DURABILITY

**METAL FRAME**

**METAL SHAFT & ALL BEARING**

**smart 51**

Born from the successful SMART-50 Series, the SMART-51 is the latest generation mid-range card printer.  The Series is a great option for mid-to-high volume printing of ID cards identity badges, access passes and more.  The SMART-51 Series offers field upgradeable options for dual sided printing, encoding, and the industry's fastest plastic card laminator. Laminating with the SMART-51L extends the life of your cards as well as increasing the card's security.
Clear, generic and custom hologram laminates are available. The SMART-51 is the ONLY printer in its class with a ruggedized metal frame.

## IDEAL SOLUTION FOR PRINTING
## HIGH-QUALITY ID CARDS IN MOMENTS

_ NEW INPUT HOPPER
  [UP TO 200 CARDS LOADING]
_ REMOVABLE OUTPUT HOPPER
_ SUPPORT OF TRANSPARENT
  CARDS
_ CARTRIDGE TYPE LAMINATE
  FILM LOADING
_ SUPPORT CR79 CARDS
  [*OPTION]

_ TOP-SIDE MAG. ENCODING
_ ALL-IN-ONE TYPE LOCK SYSTEM
  [*OPTION]
_ SINGLE CARD FEEDER [*OPTION]
_ KENSINGTON LOCK [*OPTION]
_ REAR-SIDE STACKER [*OPTION]
_ ETHERNET, WIFI [*OPTION]

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Single-sided SMART-51(51S) can be field upgraded to a dual-sided printer(51D) or to a dual-sided laminating printer(51L) by installing a Flipper module or a Laminator module.
The SMART-51 Laminating printer is a good option for printing and laminating in one step to produce high-security long-life ID cards with customizable security patch films. With IDP's patented Direct Lamination technology, the SMART-51L is the industry's fastest "Ready to Print" laminator. In only 8 seconds, IDP's laminator is ready to print and laminate your highly secured cards.

## smart-51 S

**SINGLE SIDED**
ID CARD
PRINTER

_ Single Sided Printing
_ Print Speed: Max. 17 sec./card (YMCKO)
_ 300 (Color & Mono), 600 & 1200dpi (Mono only) with Edge-to-Edge Printing
_ Installable Encoders: MS, Contact & Contactless
_ Upgradable Modules: Flipper, Laminator

## smart-51 D

**DUAL SIDED**
ID CARD
PRINTER

_ Single or Dual Sided Printing
_ Print Speed: Max. 22 sec./card (YMCKOK)
_ 300 (Color & Mono), 600 & 1200dpi (Mono only) with Edge-to-Edge Printing
_ 51S Field Upgradable to 51D
_ Installable Encoders: MS, Contact & Contactless
_ Upgradable Modules: Laminator

## smart-51 L

**LAMINATING**
ID CARD
PRINTER

_ Single or Dual Sided Printing and Laminating
_ Instant Direct Heating Lamination *patent
_ Printing & Laminating Speed: Max. 22 sec./card
  (YMCK & Single Lamination)
_ 300 (Color & Mono), 600 & 1200dpi (Mono only) with Edge-to-Edge Printing
_ 51S & 51D Field Upgradable to 51L
_ Holographic Lamination for Visual Security & Card Durability
_ Installable Encoders: MS, Contact & Contactless

**1 NEW INPUT HOPPER**

100 CARDS LOADING
200 CARDS LOADING

100 cards in default
200 cards with cover open
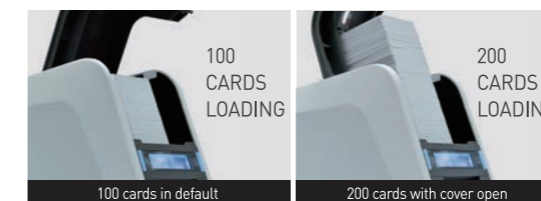
**2 SINGLE CARD FEEDER**

(*OPTION)

**3 REMOVABLE - OUTPUT HOPPER**

**4 REAR-SIDE STACKER**

(UP TO 100 CARDS)
(*OPTION)

# smart 31

Born from the successful IDP SMART-30 Series printers, the SMART-31 is the latest generation mid to entry-level ID card printer.
The SMART-31 is a great printer for small businesses to cost-effectively print professional ID cards. Full color or monochrome printing with single or dual sided options.

## SIMPLE AND EASY
## FOR EVERYONE TO USE

_ 300, 600 & 1200DPI
  EDGE-TO-EDGE PRINTING
_ EASY CARD ISSUING
_ EXCELLENT CONVENIENCE
_ FINE™ IMAGE TECHNOLOGY

_ LOW-COST SECURITY WITH
  UV PRINTING
_ REMOVABLE OUTPUT HOPPER
_ ETHERNET [*OPTION]

### smart-31 S

SINGLE SIDED
ID CARD
PRINTER

_ Single Sided Printing
_ Print Speed: Max. 20 sec./card (YMCKO)
_ 300 (Color & Mono), 600 & 1200dpi (Mono only) with Edge-to-Edge Printing
_ Low Cost Security with UV Printing
_ Installable Encoders: MS, Contact & Contactless
_ Upgradable Modules: Flipper

### smart-31 D

DUAL SIDED
ID CARD
PRINTER

_ Single or Dual Sided Printing
_ Print Speed: Max. 26 sec./card (YMCKOK)
_ 300 (Color & Mono), 600 & 1200dpi (Mono only) with Edge-to-Edge Printing
_ 31S Field Upgradable to 31D
_ LED Button for Front Operation
_ Low Cost Security with UV Printing
_ Installable Encoders: MS, Contact & Contactless

### smart-31 R

REWRITABLE
ID CARD
PRINTER

_ Direct Thermal Rewritable Single Sided Printing
_ Rewrite Speed: Max. 12 sec./card
_ 300, 600 & 1200dpi with Edge-to-Edge Printing
_ Installable Encoders:
  MS, Contact & Contactless

# smart 21

SMART-21 is a simple hand-fed desktop ID card printer with compact lightweight design. It is a great choice for instant card issuance of entry-level low-volume demands.

A more work-friendly easy to use ID card printing solution with crystal clear printing quality.

## IDEAL FOR
## SMALL ORGANIZATIONS!

_ SIMPLE HAND-FED
  DESKTOP ID CARD PRINTER
_ 300, 600 & 1200DPI
  EDGE-TO-EDGE PRINTING
_ EASY CARD ISSUING

_ COMPACT LIGHTWEIGHT DESIGN
_ FINE™ IMAGE TECHNOLOGY
_ LOW-COST SECURITY WITH
  UV PRINTING

### smart-21 S

SINGLE SIDED
ID CARD
PRINTER

_ Single Sided Printing
_ Print Speed: Max. 24 sec./card (YMCKO)
_ 300 (Color & Mono), 600 & 1200dpi (Mono only) with Edge-to-Edge Printing
_ LED Button for Printer Status Indication
_ Low Cost Security with UV Printing
_ Installable Encoders: Magnetic

### smart-21 R

REWRITABLE
ID CARD
PRINTER

_ Direct Thermal Rewritable Single Sided Printing
_ Rewrite Speed: Max. 12 sec./card
_ 300, 600 & 1200dpi with Edge-to-Edge Printing
_ LED Button for Printer Status Indication
_ Installable Encoders: Magnetic

PROVIDES A COST
EFFECTIVE SOLUTION!

# smart 51

## KIOSK CARD PRINTER

The IDP's Kiosk Card Printer is a high capacity, reliable and flexible card printing module for various types of self-service Kiosks.

Using the compact and solid SMART-51 Printing engine and 2 types of Multi-hopper systems the IDP SMART Kiosk Card Printer will provide a variety of choices depending on customers' requirements.
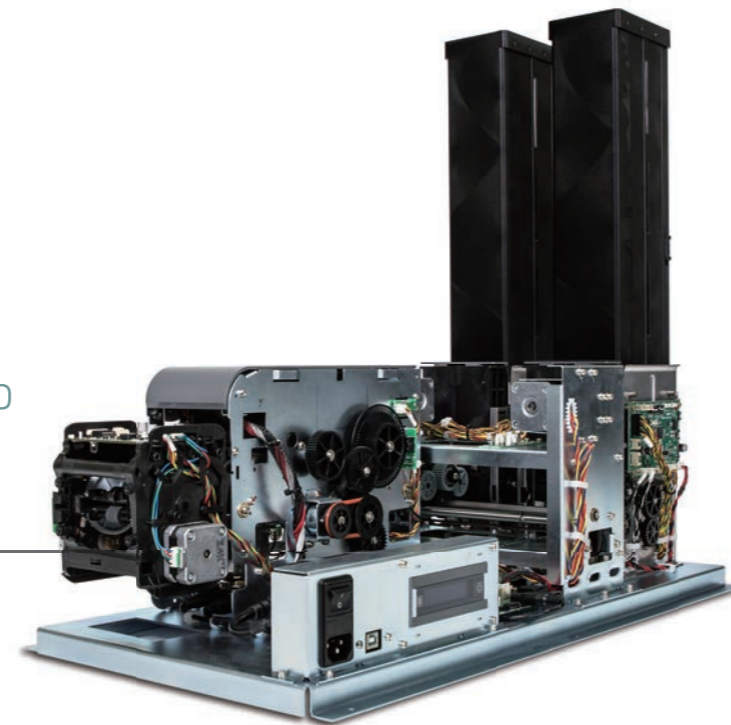
### SMART-51K 7M SEIRES IS DESIGNED FOR HIGH-VOLUME, FLEXIBLE AND VARIOUS KIOSKS SOLUTIONS

_ MAX. 2,000 CARDS LOADING
_ UP TO 4 DIFFERENT TYPES CARD LOADING
_ 300 OR 500 CARDS SELECTABLE CARTRIDGE
_ SCALABLE CAPACITY (1 UP TO 4 INPUT HOPPER)

### SMART-51K CM SERIES DESIGNED FOR ALL TYPES OF SELF-SERVICE KIOSK

_ MAX. 2,400 CARDS LOADING
_ UP TO 8 DIFFERENT TYPE CARDS LOADING
_ 100, 200, AND 300 CARDS SELECTABLE CARTRIDGE
_ SCALABLE CAPACITY (2 TO 8 HOPPER COMBINATION)

## SMART-51K 7M FEATURES
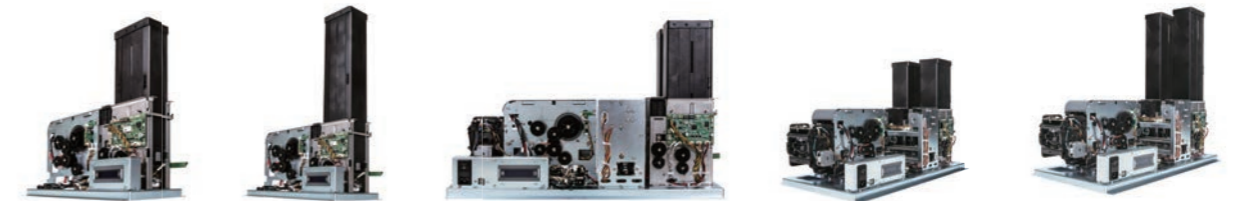
_ 1 to 4 Hopper Selectable
[up to 2,000 cards or 4 different card types]
_ 300 or 500 cards Selectable Cartridges
_ Print speed: Max. 212 cards/hour [YMCKO]

_ Compact and Reliable design
_ Customizable bottom plate
[Size, Layout of Control Panel & Adaptors, etc.]
_ Installable MS, Contact & Contactless Encoder

_ Scratch Free
_ Residual Q'ty Sensor
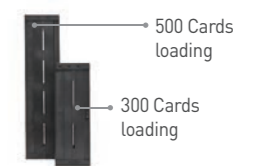_ Top-side Mag. Encoding
[*Option]

**1** COMPACT & RELIABLE DESIGN

_ SMART-51 Single or Dual Sided Card Printer
_ Metal Frame & Shaft Bearings
_ Customizeable bottomplate
_Flipper [*Option]

**2** SCALABILITY

_ Selectable 1 to 4 Hoppers
_ Up to 2,000 Cards
_ Scratch Free & Hook for Card-In*
_ Residual Q'ty sensor

**3** HIGH-VOLUME CARTRIDGE

500 Cards loading
300 Cards loading

_Selectable 300 or 500 Cartridge
_ Rugged & Solid structure
_ Easy Refillable Cartridge

*Please refer to the Scratch Free & Hook for Card-In features on page 16 for details
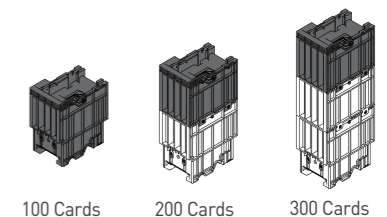
## SMART-51K CM FEATURES

**1** COMPACT & RELIABLE DESIGN

_ SMART-51 Single or Dual Sided Card Printer
_ Metal Frame & Shaft Bearings
_ Customizeable bottomplate
_Flipper [*Option]

**2** ON-DEMAND CAPACITY

_ Selectable 2 to 8 Hoppers
_ Up to 2,400 Cards
_ 8 Different type cards loading

**3** BLOCK-TYPE CARTRIDGE

100 Cards    200 Cards    300 Cards

_3 Different Height-adjustable
_ Detachable Cartridge Structure
_ Easy height-adjustment

## SMART 70
### MULTIPLE HOPPER

SMART-70 Multiple hopper is designed to satisfy the needs of large capacity with high efficiency for Kiosk operation.

From minimum 2 to maximum 6 large capacity 500 cards hoppers can be used depending on the user environment. Monochrome ribbon supports up to 3,000 prints minimizing maintenance cost and time and up to 3,000 cards loadable hoppers with 6 different types on each hopper will maximize the efficiency of the Kiosk application.

Prevent scratches on the card surface that can be caused by the weight of stacked cards. Hook for Card-In makes sure of an accurate card feeding. Full metal structure of the multiple hopper system is ideal for high-volume issuance environment.

### MULTIPLE HOPPER SYSTEM DESIGNED TO FIT THE SMART-70 SERIES

_ UP TO 6 SELECTABLE HOPPERS
_ 300 OR 500 CARDS REFILLABLE CARTRIDGES
_ UP TO 6 DIFFERENT TYPE CARDS LOADING
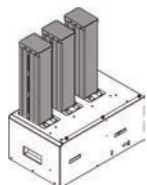_ FULL METAL STRUCTURE

### SCRATCH FREE | HOOK FOR CARD IN

_ PREVENT STACKED CARDS FROM MAKING SCRATCHES ON THE LOWER CARDS' SURFACE

Weight dispersion point

Hook

### MULTIPLE HOPPER SYSTEM DESIGNED TO FIT THE SMART-70 SERIES

Max. **3,000** cards loading

Up to. **6** different type cards loading
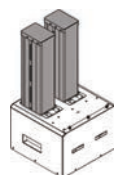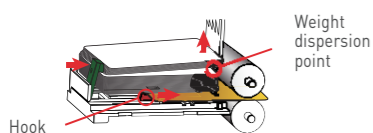
**2 HOPPERS**
Max. 1,000 cards
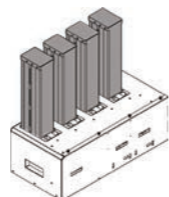2 Different type cards
232.7(W) x 308.5(D) x 548(H) mm
11.5(W) x 12.1(D) x 21.6(H) inch

**3 HOPPERS**
Max. 1,500 cards
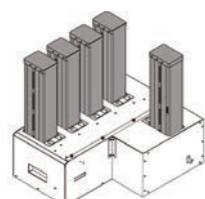3 Different type cards
494.9(W) x 308.5(D) x 548(H) mm
18.3(W) x 12.1(D) x 21.6(H) inch

**4 HOPPERS**
Max. 2,000 cards
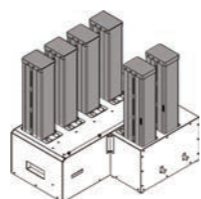4 Different type cards
589.9(W) x 308.5(D) x 548(H) mm
23.2(W) x 12.1(D) x 21.6(H) inch

**5 HOPPERS**
Max. 2,500 cards
5 Different type cards
589.9(W) x 501.7(D) x 548(H) mm
23.2(W) x 19.8(D) x 21.6(H) inch

**6 HOPPERS**
Max. 3,000 cards
6 Different type cards
589.9(W) x 501.7(D) x 548(H) mm
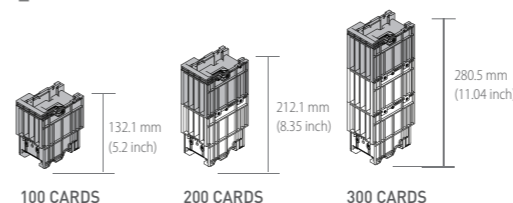23.2(W) x 19.8(D) x 21.6(H) inch

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## COMPACT
### Multiple Hopper
#### Ideal for KIOSK

The unique platform is designed to adapt to various sizes of self-kiosk depending on the markets.

From minimum 2 to maximum 8 hoppers, it offers greater flexibility and autonomy for instant card printing.

Up to 2,400 cards loadable hoppers with 8 different types on each hopper will maximize the efficiency of Kiosk application.

Full metal structure of the multiple hopper system is ideal for high-volume issuance environment.

### BLOCK-TYPE CARD CARTRIDGE DESIGNED TO FIT EASILY INSIDE THE KIOSK

_ UP TO 8 DIFFERENT CARD TYPE LOADING
_ 100, 200 OR 300 CARDS REFILLABLE CARTRIDGES
_ HEIGHT-ADJUSTED DETACHABLE CARD CARTRIDGE
_ FULL METAL STRUCTURE

### COMPACT MULTIPLE HOPPER SYSTEM DESIGNED FOR ALL TYPES OF SELF-SERVICE KIOSK

132.1 mm (5.2 inch)
212.1 mm (8.35 inch)
280.5 mm (11.04 inch)

100 CARDS        200 CARDS        300 CARDS

Max. **2,400** cards loading

Up to. **8** different type cards loading
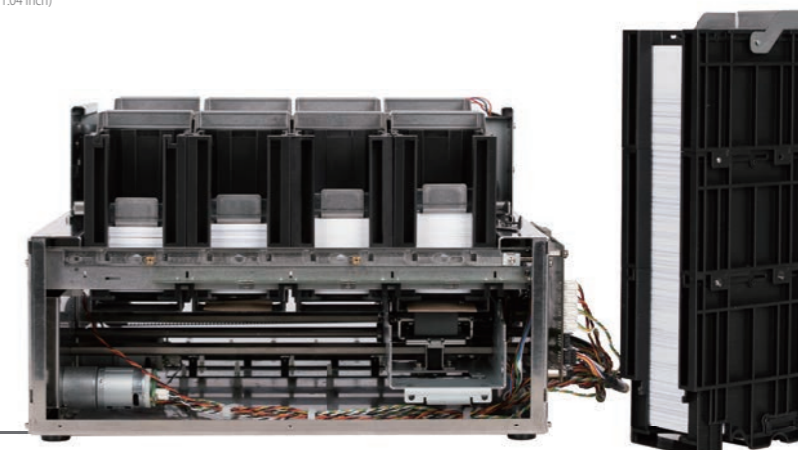
**CM-2x1-300**
Max. 600 cards | 2 Different type cards
282.8(W) x 209.5(D) x 380.1(H) mm
11.14(W) x 8.25(D) x 14.96(H) inch
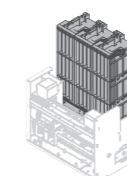
**CM-3x1-300**
Max. 900 cards | 3 Different type cards
282.8(W) x 209.5(D) x 380.1(H) mm
11.14(W) x 8.25(D) x 14.96(H) inch
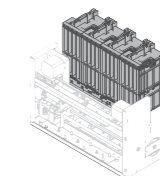
**CM-4x1-300**
Max. 1,200 cards | 4 Different type cards
352.8(W) x 209.5(D) x 380.1(H) mm
13.89(W) x 8.25(D) x 14.96(H) inch

**CM-2x2-300**
Max. 1,200 cards | 4 Different type cards
282.8(W) x 324.5(D) x 380.1(H) mm
11.14(W) x 12.78(D) x 14.96(H) inch
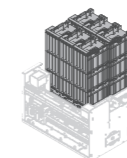
**CM-3x2-300**
Max. 1,800 cards | 6 Different type cards
282.8(W) x 324.5(D) x 380.1(H) mm
11.14(W) x 12.78(D) x 14.96(H) inch

**CM-4x2-300**
Max. 2,400 cards | 8 Different type cards
352.8(W) x 324.5(D) x 380.1(H) mm
13.89(W) x 12.78(D) x 14.96(H) inch

# smart PORTABLE

The SMART Portable, from IDP, is an advanced mobile ID Card printing package.
The convenient and portable printing solution offers a sturdy travel case equipped with IDP's latest SMART ID Card Printer.

Small, lightweight package offers a long-life printing quality and convenient PC connections to get you up printing quickly anywhere.

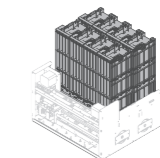The SMART Portable is designed for tough card-issuing environments where product size, weight, and limited power are concerned.
It is ideal solution for emergency preparation kits, disaster recovery response, field card issuance and similar applications where infrastructure is uncertain.

## HANDY AND HARDY
## CONVENIENT EASY-TO-CARRY
## SMART PORTABLE SOLUTION

_ EASY-TO-CARRY & IN-FLIGHT LUGGUAGE SIZE [*7KG]
_ WATERTIGHT, DUST AND CRUSH PROOF CASE
_ EXTERIAL CONTROLLER
_ EASY-TO-USE & HANDY ISSUANCE
_ EXTENDED BATTERY AND SOLAR CHARGING SYSTEM

HANDY
+
STURDY
+
READY

1  IDP SMART-21 CARD PRINTER

2  PRINTER ACCESSORY BOX (INCL. ADAPTOR, USB CABLE, DC TO DC CABLE)

3  PRINTER CONTROL BOX [POWER SWITCH, USB PORT, ADAPTOR & BATTERY PORT]

4  2 X AUXILIARY BATTERY SPACE [BATTERY SPACE SIZE : 83 x 25 x 135mm]

# smartBIT™

## Ribbon | Foil Shredder
### for Security Assurance

## SECURELY DESTROY SENSITIVE PERSONAL INFORMATION

### COMPLETE SHREDDING

IDP's Twisted Micro-Cut Technology uses an exclusive method to twist and cut the ribbons and foils completely to shred personal data into tiny particles. *Patented

### EASY-TO-USE

Easy to use interface and shredded ribbons can be easily discarded using the SMART-BIT Waste Bag when full.
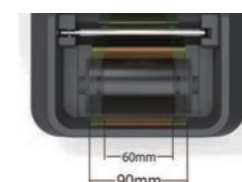
### FLEXIBLE RIBBON | FOIL COMPATIBILITY

The SMART-BIT will accommodate the industry's popular brands of direct-to-card desktop printer ribbons and topping foils.
*Max. 90mm width Ribbon & Foil | 60mm width Retransfer Film

60mm
90mm

## COMPACT
## EASY-TO-USE DESIGN

SMART-BIT is compact and lightweight and easily fits into any office desktop environment.
232 x 365 x 386 mm / 9.1 x 14.4 x 15.2 inch | 4.8 kg / 10.6 lbs

The SMART-BIT's waste bag will ensure the complete capture of ribbon and foil particles and simple transfer to a waste bin.

SMART-BIT
Ribbon Shredder

SMART-BIT
Foil Shredder

# SMART IDesigner

IDP SMART IDesigner Software makes it easy for you to design and print professional ID badges and a multitude of other plastic card needs at your fingertips.

SMART IDesigner allows you to add images, text, barcodes, manage databases and provide card encoding options.

Our SMART IDesigner software comes with the SMART printers free of charge and can be used to design and print ID cards, ID badges, and more.

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- Design and print (Image, Photo and Text)
- 1D & 2D Barcode printing
- Autoportrait (Auto face detection,
  adjustment of size & position)
- Printing of sequential numbers
- Card design templates
- Capture live photos by connecting a camera
  which will be stored in the cardholders' record.
- Plug-in for supporting external devices
  (Sign pad, Camera, Scanner)
- Convenient card issuance and data management
- Magnetic stripe (MS), contact & contactless
  smart card encoding by using plug-in program
- Multi-language support
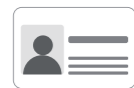
| Design & Print | Encoding
MS, Contact & Contactless | Sequential
Number | Auto portrait |

| 1D & 2D Barcode
printing | Plug-in
Camera, Sign pad, Scanner | Card design
Templates | Convenient
Data management |
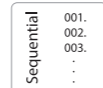
IDP's SMART IDesigner Software is designed for the SMART brand of printers and will not operate with other printers. For optimal performance, IDP recommends the following minimum PC configuration:
Windows 7/8/10/11, a Pentium 1GHz processor with 1GB of RAM.

# APPLICATIONS

## PRINTING SOLUTION IN VERTICAL MARKETS

IDP card printers help business identity and on-demand security more efficiently, we provide solutions everywhere plastic cards are used such as corporations, financial banking, education, government, and healthcare, and more.

**CORPORATION**

IDP offers an extended range of printers that will meet the identification and security requirements of all organizations.

**FINANCIAL**

Banks are establishing instant credit or debit card issuing system in addition to centralized issuing systems.
In this case, customers do not need to wait till their financial cards are issued and mailed.

**ACCESS CARD**

Access control cards have many objectives, including controlling access at point of entry, enabling users to sign documents electronically, and enter controlled facilities with magnetic stripe, contact and contactless smart card.

**EDUCATION**

Most of all educational organizations need student ID cards. IDP's ID card printers are suitable to issue many types of student ID card.

**GOVERNMENT**

Government ID cards are typically powerful with multiple layers of security as well as contact or contactless encoding. IDP's printers and supplies offer many options to protect valuable government identities and access.

**TRANSPORTAION**

Transit cards need to charge money for using public transportation for certain periods. It also needs to be personalized to identify users.

## GENUINE IDP CONSUMABLES

IDP offers a complete range of ribbons and consumables especially designed for SMART printers.
SMART genuine consumables ensure high-quality printing and reliable performance of SMART printers.

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### RIBBONS

Select color, monochrome or security ribbon for stringent quality standards, consistent print results, rich color, highly detailed images.

### SECURITY FILMS

IDP Genuine Security films are ideal for any official ID card which needs high security and endure harsh environment.
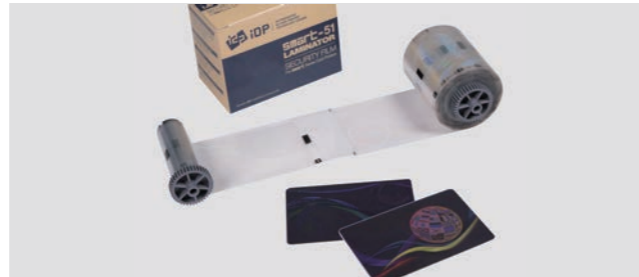
### CLEANING KITS

To help maintain optimum print quality, printer performance, and to maximize the printer's life.

### CARDS

IDP plastic cards and smart cards for stringent quality standards and consistent print results.

### Consumables for **SMART-81 SERIES**

**COLOR RIBBONS**

| YMCK | | 500 Cards/Roll | Full Color Ribbon with Resin Black |
|---|---|---|---|
| YMCKK | | 500 Cards/Roll | Full Color Ribbon with Resin Black & Black for Back Side |

**RETRANSFER FILM**

| Retransfer Film | | 500 Cards/Roll |
|---|---|---|

**RIBBON & FILM PACKAGE**

| YMCK & Retransfer Film | 500 cards/ Each Roll |
|---|---|

**LAMIMATING FILM**

| Holographic Patch Film | | 500 Cards/Roll |
|---|---|---|
| Clear Patch Film | | 500 Cards/Roll |
| Clear SMART Cut Patch Film | | 500 Cards/Roll |

### Consumables for **SMART-70 SERIES**

**COLOR RIBBONS**

| YMCKO | | 500 Cards/Roll | Full Color Ribbon with Resin Black & Overlay |
|---|---|---|---|
| YMCKOK | | 500 Cards/Roll | Full Color Ribbon with Resin Black, Overlay & Black for Back Side |
| YMCFKO | | 500 Cards/Roll | Full Color Ribbon with UV Panel, Resin Black and Overlay |
| HYMCKO | | 1000 Cards/Roll | Half Panel Size Color Ribbon with Resin Black and Overlay |
| YMC | | 1000 Cards/Roll | Full Color Ribbon |

**MONO RIBBONS**

| KO | 1500 Cards/Roll | Black with Overlay |
|---|---|---|
| K | 3000 Cards/Roll | Black |
| W | 3000 Cards/Roll | White |
| B | 3000 Cards/Roll | Blue |
| R | 3000 Cards/Roll | Red |
| MG | 3000 Cards/Roll | Metallic Gold |
| MS | 3000 Cards/Roll | Metallic Sliver |
| SO | 3000 Cards/Roll | Scratch-Off |

**SECURITY FILMS**

| HPF | 500 Cards/Roll | Holographic Patch Film |
|---|---|---|
| CPF | 500 Cards/Roll | Clear Patch Film |
| CPS | 500 Cards/Roll | Clear SMART Cut Patch Film |

## Consumables for **SMART-51, 31 & 21 SERIES**

### COLOR RIBBONS

| YMCKO | | 100 Cards/Roll | Full Color Ribbon with Resin Black & Overlay |
|---|---|---|---|
| | | 250 Cards/Roll | Full Color Ribbon with Resin Black & Overlay |
| YMCKOK | | 200 Cards/Roll | Full Color Ribbon with Resin Black, Overlay & Black for Back Side |
| YMCFKO | | 200 Cards/Roll | Full Color Ribbon with UV Panel, Resin Black and Overlay |
| YMCPKO | | 200 Cards/Roll | Full Color Ribbon with Pearlescent Panel, Resin Black and Overlay |
| HYMCKO | | 350 Cards/Roll | Half Panel Size Color Ribbon with Resin Black and Overlay |

### MONO RIBBONS

| KO | 600 Cards/Roll | Resin Black with Overlay |
|---|---|---|
| BO | 600 Cards/Roll | Dye-sublimation Black with Overlay |
| K | 1200 Cards/Roll | Black |
| W | 1200 Cards/Roll | White |
| B | 1200 Cards/Roll | Blue |
| R | 1200 Cards/Roll | Red |
| MG | 1200 Cards/Roll | Metallic Gold |
| MS | 1200 Cards/Roll | Metallic Sliver |
| SO | 1200 Cards/Roll | Scratch-Off |

### SECURITY FILMS

| HPF | 250 Cards/Roll | Holographic Patch Film |
|---|---|---|
| CPF | 250 Cards/Roll | Clear Patch Film |
| CPS | 250 Cards/Roll | Clear SMART Cut Patch Film |

## OTHERS

### CLEANING KITS



| Cleaning Roller | Cleaning Card | Long Cleaning Card |
|---|---|---|
| Remove dust, debris on the cards | Manual Cleaning | Automatic Cleaning |

| Cleaning Swab | Cleaning Pen |
|---|---|
| Printer Head & Roller Cleaning | Print Head Cleaning |

### PRIMUS CARD

ISO CR80 | 30mil/0.76mm
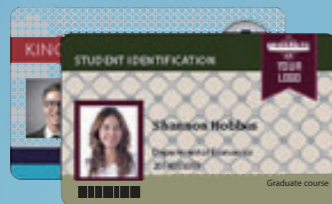_ Blank white PVC Card
_ Paper Card

### SMART-BIT ACCESSORIES

| Dust Bag | Large Waste Bin | Large Dust Bag |
|---|---|---|
| Genuine Dust Bag for SMART-BIT | Genuine Large Waste Bin for SMART-BIT | Genuine Large Dust Bag for Large waste bin |

# TECHNOLOGIES FOR PRINTER

**1  PLASTIC CARD PRINTING**

Plastic cards are prevalent in our daily lives, such as payment cards driver's licenses, membership cards and employee identification badges. Their standard size, portability, and durability make them the ideal choice for many applications.

**2  LAMINATION**

Lamination is a polyester film laminated to a card's surface to protect it from alteration and wear and tear. Holograms can be added to the lamination for added security.  In normal use, a laminate can increase your cards' life by up to 5 times.
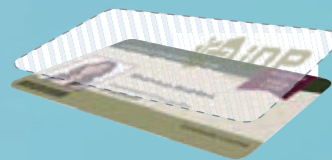
**3  UV PANEL**

The Ultra-Violet (UV)  ink panel on a YMCFKO (F is the UV Panel) ribbon is a blacklight reactive ink that is not visible with the naked eyes. It is cost-effective and an easy way to add variable security to your cards. The SMART drivers offer easy tools to personalize UV printing, no matter the ID software in use.
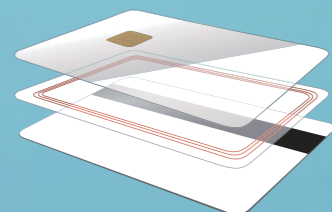
**4  ENCODING**

Encoding is one of the important functions in ID card printer. We issue ID card not only for visual identification but also for storing digital information. There are three major encoding methods- magnetic, contact IC, and contactless. IDP  printers support all three types.  New encoding methods and protocols come to market frequently,  so contact IDP's Sales Team for the best solution to your encoding needs.

## SMART-81 PRINTER

| Model | | SMART-81S | SMART-81D |
|---|---|---|---|
| | | Single Sided | Dual Sided |
| **Printing** | Print Type | Dye-Sublimation / Resin Thermal Retransfer | |
| | Print Area | Infinity-edge | Full Bleed | |
| | Resolution | 600 dpi / 300 dpi | |
| **Card** | Card Feeding | Automatic | |
| | Card Size | ISO CR80 (54mm x 86mm / 2.12" x 3.38") | |
| | Card Thickness | 0.76mm (30mil) ~ 1.6mm (64mil) | |
| | Card Type | PVC, PC, PET, Composite PVC | |
| **Print Speed** | Single Sided | Max. 25 sec./card (144 cards/hour) | Max. 25 sec./card (144 cards/hour) |
| | Dual Sided | - | Max. 43 sec./card (84 cards/hour) |
| **Capacity** | Input Hopper | 200 Cards | |
| | Output Hopper | 100 Cards | |
| | Error card bin | 25 Cards | |
| **System** | Memory | 128MB RAM | |
| | Display & Control | 2 Line Graphic LCD Indicator / 4 Buttons | |
| | Supported Platforms | Microsoft Windows 7/ 8 /10/ 11, Mac OS, Linux | |
| | Communication | USB, Ethernet | |
| | Power | 100-240V~ 50/60Hz 2.5A | |
| | Temp./Humidity | 15~35℃ / 35~70% | |
| **Dimensions** | Millimeter/Inch | 460 (W) x 224 (L) x 310 (H) / 18.1 (W) x 8.8 (L) x 12.2 (H) | |
| **Weight** | Kg/lbs | 11.4 / 25.1 | |
| **Options** | Encoding | Magnetic stripes : ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo) Contact : ISO 7816 (ID-1) / Contactless : ISO 14443 (Type A/ B), ISO 18092(NFC), MIFARE, DESFIRE | |
| | WiFi | IEEE 802.11 a/ b/ g/ n | |
| | Security | Physical & Electronic Locking System | |
| | Bend Remedy | Avaliable only for the SMART-81S | |

## SMART-81 LAMINATOR

| Model | | SMART-81L |
|---|---|---|
| **Laminating** | Type | Direct Heating Lamination |
| | Speed | 20 sec./card | 180 cards/hour (Single-sided Laminating) |
| **Laminating Film** | Type | Clear, Holographic, TTO |
| | Thickness | 0.6mil, 1.0mil |
| **System** | Interface | 1 LED Indicator |
| | Communication | IR |
| | Power | 100-240V ~ 50/60Hz 2.5A |
| | Temp./Humidity | 15~35℃ / 35~70% |
| **Dimensions** | Millimeter/Inch | 240 (W) x 224 (L) x 260 (H) / 9.5 (W) x 8.9 vvvvvv(L) x 10.2 (H) |
| **Weight** | Kg/lbs | Approx. 6.2 kg/13.7 lbs |
| **Options** | Security | Physical Lock & Kensington Lock |

*Print Speed : May change under specific condition.

## SMART-70 PRINTER

| | | |
|---|---|---|
| **Printing** | Print Type | Direct Dye-Sublimation |
| | Print Area | Edge to Edge |
| | Resolution | 300dpi |
| **Card** | Card Feeding | Automatic |
| | Card Size | ISO CR80 (54mm x 86mm / 2.12" x 3.38") |
| | Card Thickness | 0.38mm (15mil), 1.2mm (47mil) |
| | Card Type | PVC, Composite PVC, PET |
| **Print Speed** | Monochrome | 3.6 sec./card (1,000 cards/hour) |
| | YMCKO | Max. 16 sec./card (225 cards/hour) |
| | YMCKOK | Max. 22 sec./card (164 cards/hour) |
| **Capacity** | Input Hopper: Card | 500 cards |
| | Output Hopper: Card | Stacker : 100 cards / *Optional Output Hopper : 500 cards |
| **System** | Memory | 64MB RAM |
| | Interface | 2 Line LCD / 4 Buttons / 1 LED Indicator |
| | Supported Platforms | MS Windows 7/ 8 /10/ 11, Mac OS, Linux |
| | Communication | USB, 2 USB Host, Ethernet |
| | Power Supply | Free voltage (AC 100/ 220V, 50~60Hz) |
| | Power Consumption | 24V, 2A |
| | Temperature/Humidity | 15~35℃ / 35~70% |
| **Encoding Options** | Magnetic | ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo), JIS II |
| | Contactless | MIFARE, ISO 14443 (Type A/ B), ISO 15693, DESFIRE, iCLASS |
| **Security** | Physical Lock | Ribbon |
| | S/W | PC authentication, Password authentication |
| | Station Itself | Kensington Lock |
| **Dimensions** | Millimeter | 240 (W) x 214 (L) x 305 (H) |
| | Inch | 9.5 (W) x 8.4 (L) x 12.0 (H) |
| **Weight** | kg/lbs | Approx. 6.3 kg/13.9 lbs |

## SMART-70 LAMINATOR

| | | |
|---|---|---|
| **Laminating** | Type | Direct Heating Lamination |
| | Speed | 19 sec./card (Single-sided Laminating) |
| **Laminating Film** | Type | Clear, Holographic |
| | Thickness | 0.6mil, 1.0mil |
| | Capacity | 500 cards/Roll |
| **System** | Interface | 2 Line LCD / 4 Buttons / 1 LED Indicator |
| | Communication | USB, RS-232C |
| | Power Supply | Free Voltage (AC 100/ 220V, 50~60Hz) / 24V, 2.3A |
| | Power Consumption | 24V, 2.3A |
| | Temperature/Humidity | 15~35℃ / 35~70% |
| **Security** | Physical Lock | Laminating Film |
| | Station Itself | Kensington Lock |
| **Dimensions** | Millimeter | 240 (W) x 214 (L) x 305 (H) |
| | Inch | 9.5 (W) x 8.4 (L) x 12.0 (H) |
| **Weight** | kg/lbs | Approx. 6.1 kg/13.4 lbs |

## SMART-70 HYBRID FLIPPER

| | | |
|---|---|---|
| **Encoding Options** | Contact | ISO 7816 A/B/C Card, ISO 7816 1/2/3/4 Microprocessor Card |
| | Contactless | ISO 14443 (Type A/B), Mifare, DEFIRE, iCLASS, ISO 18092(NFC), Felica |
| **System** | Communication | USB |
| | Power Supply | Free Voltage (AC 100/ 220V, 50~60Hz) |
| | Power Consumption | 24V, 2A |
| | Temperature/Humidity | 15~35℃ / 35~70% |
| **Security** | Physical Lock | Encoder or Error Card |
| | Station Itself | Kensington Lock |
| **Dimensions** | Millimeter | 110 (W) x 204 (L) x 305 (H) |
| | Inch | 4.3 (W) x 8.0 (L) x 12.0 (H) |
| **Weight** | kg/lbs | Approx. 2.8 kg/6.2 lbs. Without Optional modules) |

**Error Card Bin**
Ejection device for faulty card is equipped inside Flipper (Max. 30 cards)

* If encoder options are not selected, Error Card Bin will be provided.

## SMART-70 INPUT/OUTPUT HOPPER

| | | |
|---|---|---|
| **Capacity** | Input / Output | 500 or 300 cards Cartridge Selectable |
| | Feeding | Automatic |
| **Card** | Size | ISO CR80 (54mm x 86mm / 2.12" x 3.38") |
| | Thickness | 0.38mm (15mil), 1.2mm (47mil) |
| | Type | PVC, Composite PVC, PET |
| **Sensor** | Residual Q'ty Sensor | Input: Near Empty & Empty / Output: Full Space |
| | Detection Sensor | Cartridge Mount Status Detectable |
| **System** | Communication | USB, RS-232C |
| | Power | Free Voltage (AC 100/ 220V, 50~60Hz) / 24V, 2A |
| | Temperature/Humidity | 15~35℃ / 35~70% |
| **Security** | Physical Lock | Cartridge |
| | Station Itself | Kensington Lock |
| **Dimensions** | Input Hopper (W x L x H) | 170 x 204 x 548 mm / 6.7 x 8.0 x 21.6 inch |
| | Output Hopper (W x L x H) | 149 x 204 x 548 mm / 5.9 x 8.0 x 21.6 inch |
| **Weight** | Input Hopper (kg/lbs) | Approx. 3.7 kg /8.2 lbs |
| | Output Hopper (kg/lbs) | Approx. 3.5 kg /7.6 lbs |

*Print Speed : May change under specific condition.

## SMART-51 SERIES

| Model | | SMART-51S | SMART-51D | SMART-51L |
|---|---|---|---|---|
| | | Single Sided | Dual Sided | Dual Sided & Laminator |
| **Printing** | Print Type | Dye-Sublimation | | |
| | Print Area | Edge to Edge | | |
| | Resolution | 300dpi (Color & Mono), 600 & 1200dpi (Mono only) | | |
| | Dual Side Printing | Option | Yes | Yes (Flipper Installed) |
| **Card** | Card Feeding | Automatic | | |
| | Card Size | ISO CR80 or ISO CR79 (Option-Factory installed) | | |
| | Card Thickness | 0.38mm (15mil), 1.0mm (40mil) | | |
| | Card Type | PVC, PET, Composite PVC | | |
| **Print Speed** | Monochrome | 5 sec./card (720 cards/hour) | 5 sec./card (720 cards/hour) | 5 sec./card (720 cards/hour) |
| | YMCKO | Max. 17 sec./card (212 cards/hour) | Max. 17 sec./card (212 cards/hour) | Max. 17 sec./card (212 cards/hour) |
| | YMCKOK | - | Max. 22 sec./card (164 cards/hour) | Max. 22 sec./card (164 cards/hour) |
| **Laminating** | Mode | - | - | Single & Dual |
| | Film (Clear & Holographic) | - | - | 0.6mil, 1.0mil |
| | Speed — Simultaneous (Single Lamination) | - | - | 22 sec./card (YMCK) |
| | | - | - | 32 sec./card (YMCKK) |
| | Speed — One by One (Single Lamination) | - | - | 43 sec./card (YMCK) |
| | | - | - | 53 sec./card (YMCKK) |
| **Capacity** | Input Hopper: Card | 100 Cards / 200 Cards with cover open | | |
| | Output Hopper: Card | Front : 40 Cards / Rear : 100 Cards (Optional Rear-side Stacker) | | |
| **System** | Memory | 64MB RAM | | |
| | Display | 2 Line LCD | | |
| | Control Panel | 2 LED Buttons | | |
| | Supported Platforms | Microsoft Windows 7/ 8 /10 /11, Mac OS, Linux | | |
| | Communication | USB, Ethernet (Option) | | |
| | Power Supply | Free Voltage (AC 100/ 220V, 50~60Hz) | | |
| | Power Consumption | 48 | 48 | 96 |
| | Temp./Humidity | 15~35℃ / 35~70% | | |
| **Dimensions** | Millimeter (WxLxH) | 165 x 390 x210 | 165 x 498 x 210 | 165 x 675 x 210 |
| | Inch (WxLxH) | 6.5 x 15.4 x 8.3 | 6.5 x 19.6 x 8.3 | 6.5 x 26.6 x 8.3 |
| **Weight** | Kg/lbs | 4.5 / 10.0 | 5.2 / 11.5 | 8.8 / 19.4 |
| **Encoding Options** | Magnetic | ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo), JIS II | | |
| | Contact | ISO 7816 (ID-1) | | |
| | Contactless | MIFARE, ISO 14443 (Type A/ B), ISO 15693, DESFIRE, iCLASS | | |
| **Certifications** | | CB, CE(UKCA), FCC, KC, CCC | | |

## SMART-31 SERIES

| Model | | SMART-31S | SMART-31D | SMART-31R |
|---|---|---|---|---|
| | | Single Sided | Dual Sided | Rewritable |
| **Printing** | Print Type | Dye-Sublimation | | Thermal Transfer |
| | Print Area | Edge to Edge | | |
| | Resolution | 300dpi (Color & Mono), 600 & 1200dpi (Mono only) | | |
| | Dual Side Printing | Option | Yes | No |
| **Card** | Card Feeding | Automatic | | |
| | Card Size | ISO CR80 | | |
| | Card Thickness | 0.38mm (15mil), 0.76mm (30mil) | | |
| | Card Type | PVC, PET, Composite PVC | PVC, PET, Composite PVC | Rewritable Thermochromic Material |
| **Print Speed** | Monochrome | 5 sec./card (720 cards/hour) | 5 sec./card (720 cards/hour) | Max. 12 sec./card (300 cards/hour) |
| | YMCKO | Max.20 sec./card (156 cards/hour) | Max. 20 sec./card (156 cards/hour) | - |
| | YMCKOK | - | Max. 26 sec./card (124 cards/hour) | - |
| **Capacity** | Input Hopper: Card | 80 | | |
| | Output Hopper: Card | 25 | | |
| **System** | Memory | 64MB RAM | | |
| | Control Panel | 1 LED Button | | |
| | Supported Platforms | Microsoft Windows 7/ 8 /10 /11, Mac OS, Linux | | |
| | Communication | USB, Ethernet (Option) | | |
| | Power Supply | Free Voltage (AC 100/ 220V, 50~60Hz) | | |
| | Power Consumption | 48 | 48 | 48 |
| | Temp./Humidity | 15~35℃ / 35~70% | | |
| **Dimensions** | Millimeter (WxLxH) | 172 x 377 x 190 | 172 x 472 x 190 | 172 x 377 x 190 |
| | Inch (WxLxH) | 6.8 x 14.8 x 7.5 | 6.8 x 18.6 x 7.5 | 6.8 x 14.8 x 7.5 |
| **Weight** | Kg/lbs | 3.4 / 7.5 | 4.2 / 9.5 | 3.4 / 7.5 |
| **Encoding Options** | Magnetic | ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo), JIS II | | |
| | Contact | ISO 7816 (ID-1) | | |
| | Contactless | MIFARE, ISO 14443 (Type A/ B), ISO 15693, DESFIRE, iCLASS | | |
| **Certifications** | | CB, CE(UKCA), FCC, KC, CCC | | |

*Print Speed : May change under specific condition.

## SMART-21 SERIES

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| Model | | SMART-21S | SMART-21R |
|---|---|---|---|
| | | Single Sided | Rewritable |
| **Printing** | Print Type | Dye-Sublimation | Thermal Transfer |
| | Print Area | Edge to Edge | |
| | Resolution | 300dpi (Color & Mono), 600 & 1200dpi (Mono only) | |
| **Card** | Card Feeding | Manual / Hand-Fed | |
| | Card Size | ISO CR80 | |
| | Card Thickness | 0.76mm (30mil) | |
| | Card Type | PVC, PET, Composite PVC | Rewritable Thermochromic Material |
| **Print Speed** | Monochrome | 6 sec./card (600 cards/hour) | Max. 12 sec./card (300 cards/hour) |
| | YMCKO | Max. 24 sec./card (150 cards/hour) | - |
| **System** | Memory | 64MB RAM | |
| | Control Panel | 1 LED Button | |
| | Supported Platforms | Microsoft Windows 7/ 8 /10 /11, Mac OS, Linux | |
| | Communication | USB | |
| | Power Supply | Free Voltage (AC 100/ 220V, 50~60Hz) | |
| | Power Consumption | 48 | |
| | Temp./Humidity | 15~35℃ / 35~70% | |
| **Dimensions** | Millimeter (WxLxH) | 168 x 259 x 179 | |
| | Inch (WxLxH) | 6.6 x 10.2 x 7.0 | |
| **Weight** | Kg/lbs | 2.7 / 5.95 | |
| **Options** | Magnetic Encoding | ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo), JIS II | |
| | Anti-Theft | Kensington Lock | |
| **Certifications** | | CB, CE(UKCA), FCC, KC | |

## SMART-PORTABLE

| Model | | SMART-PORTABLE |
|---|---|---|
| **Printing** | Print Type | Dye-Sublimation |
| | Print Area | Edge to Edge |
| | Resolution | 300dpi (Color & Mono), 600 & 1200dpi (Mono only) |
| **Card** | Card Feeding | Manual / Hand-Fed |
| | Card Size | ISO CR80 |
| | Card Thickness | 0.76mm (30mil) |
| | Card Type | PVC, PET, Composite PVC |
| **Print Speed** | Monochrome | 6 sec./card (600 cards/hour) |
| | YMCKO | Max. 24 sec./card (150 cards/hour) |
| **System** | Memory | 64MB RAM |
| | Control Box | Power Switch, USB Port, Adaptor Port, Auxiliary Battery Port |
| | Supported Platforms | Microsoft Windows 7/ 8 /10 /11, Mac OS, Linux |
| | Communication | USB, WiFi |
| | Power Supply | Adaport: Free Voltage (AC100/220V, 50~60Hz | Package Included) |
| | | Auxiliary Battery | Solar Panel [1] |
| | Power Consumption | 48W |
| | Temp./Humidity | 15~35℃ / 35~70% |
| **Dimensions** | Millimeter (WxLxH) | 428 x 235 x 358 |
| | Inch (WxLxH) | 16.9 x 9.3 x 14.1 |
| **Weight** | Kg/lbs | 7.0 / 15.4 |
| **Encoding Options** | Magnetic | ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo), JIS II |
| | Contact | ISO 7816 (ID-1) |
| | Contactless | MIFARE, ISO 14443 (Type A/ B), ISO 15693, DESFIRE, iCLASS |
| **Case** | | Watertight, Dustproof and Crushproof | Polymer material | Automatic Purge Valve Business Card Holder | 2 Padlock holes |
| **Certifications** | | CB, CE(UKCA), FCC, KC |

(1) Auxiliary Battery & Solar Panel are not included.

*Print Speed : May change under specific condition.

Specifications and availability may change without notice.

## SMART-BIT

| Model | SMART-BIT Ribbon Shredder | SMART-BIT Foil Shredder |
|---|---|---|
| Shredable Type | Dye-Sublimation Ribbon, Resin & Wax Ribbon | Topping Foil, Retransfer Film |
| Shredable Width | 60mm to 90mm<br>(Installable Ribbon Core Width : Max. 120mm) | Max. 90mm Foil, 60mm Retransfer Film<br>(Installable Foil Core Width : Max. 150mm) |
| Installable Ribbon/Foil Diameter | Max. Ø80 | Max. Ø90 |
| Shredding Speed | Max. 16 meters/minute | Max. 12 meters/minute |
| Shredder Bin Capacity | 6 Rolls (YMCKO, 250 cards/roll) | - |
| Cutting Type | Twisted Micro Cut *Patent | |
| Shredded Particle Size | Approx. 2.5mm | Approx. 3mm |
| Control | 3 Speed (Slow, Normal, Fast mode), Start & Stop, Reverse | 2 Speed (Normal, Fast mode), Start & Stop, Reverse |
| Auto Stop | Finished Shredding, Ribbon Jam | Finished Shredding, Foil Jam |
| Interface | 4 LEDs, 3 Buttons | |
| Power Supply | DC24V, 2A | |
| Temperature / Humidity | 15~35℃ / 35~70% | |
| Dimensions(WxLxH) | 232 x 386 x 365 mm / 9.1 x 15.2x 14.4 inch | |
| Weight | Approx. 4.8 kg / 10.6 lbs | |
| Certifications | CB, CE(UKCA), FCC, KC | |

smart 81

smart 70

smart 51

smart-51 S    smart-51 D    smart-51 L

smart 31

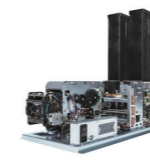smart-31 S    smart-31 D    smart-31 R

smart 21

smart-21 S    smart-21 R

smart 51
KIOSK CARD PRINTER

SMART-51K 7M    SMART-51K CM

smart 70
Multiple Hopper

COMPACT
Multiple Hopper

smart
PORTABLE

smart BiT