SMARTTECH ID
Total Access & Identity Solutions

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ID Card Printing Solutions

idp IDP

smart **SMART, Smarter than any other ID Card Printer!**

smart Series

manufactured by IDP Corporation, is a highly engineered dye-sublimation ID Card printer which provides you with maximum efficiency for production of plastic cards in commercial and government applications.

SMART series is designed to support a flexible user environment, which makes it easy to choose the correct printer and save money. You can easily add a flipper or laminator, for dual sided printing or laminating, and various encoders such as magnetic stripe, contact and contactless. The enhanced FINE™ Imaging Technology of the SMART series enables you to print high quality images. The SMART Series will be a perfect choice for ID, Membership, Access control, Government ID, Healthcare and Banking cards.

IDP Corporation has begun a new era in ID Card printers.
Please come and experience the flexibility and quality of the SMART series.

TECHNOLOGY

- Clear printing by FINE™ Imaging Technology
- Instant direct heating mechanism for lamination *Patent
- Field upgradable options for dual sided printing and laminating
- Field upgradable encoders for magnetic stripe, contact and contactless smart card
- Automatic ribbon recognition and no need for sensors & motors calibration
- Eco friendly rewritable printing (SMART-30R)
- 500 cards & scratch free (SMART-70) *Patent
- High-durability: Metal frame & shaft, all bearing (SMART-50 & 70)

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-30 & 50)
- Drop-in ribbon cartridge (SMART-30 & 50)
- Full modular design (SMART-70)
- Drawer type ribbon cartridge (SMART-70)
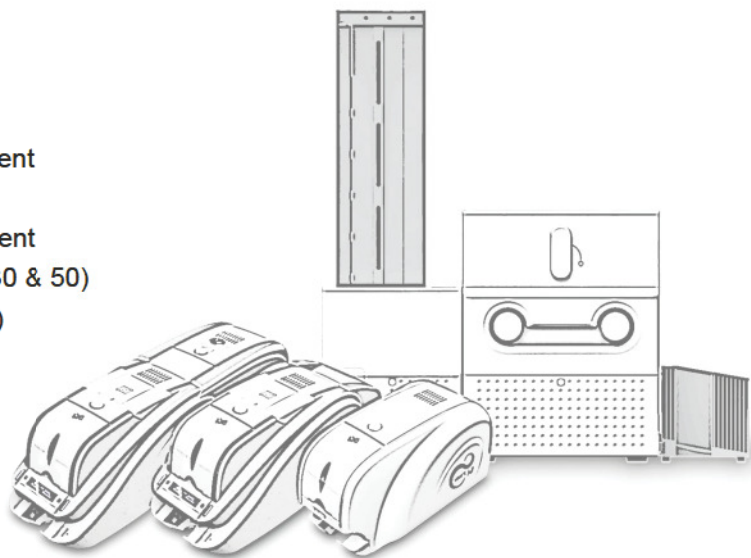
SOFTWARE

- SMART SDK, to develop customized applications
- SMART Utilites, to check working states and adjust configurations
- SMART Design & SMART DB for designing and issuing cards
- On-Line technical support

ISSUANCE

SMART Applications ensure proper card issuance and data management with SMART series printers at no extra cost.

- **SMART Design**

  - Design and Print (Images, Photos, Texts, etc.)
  - 1D & 2D Barcode printing
  - Auto portrait
   (Auto face detection & adjustment of size & position)

- **SMART DB**

  - Convenient issuance of cards and data management
  - Supports ODBC (Open Database Connectivity)
  - Magnetic stripe (MS), contact & contectless smart card encoding by using plug-in program

SECURITY

SMART series provides effective security features for access control and data encryption.

- 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-70 series is equipped with physical lock and Kensington lock system on each station to increase security.
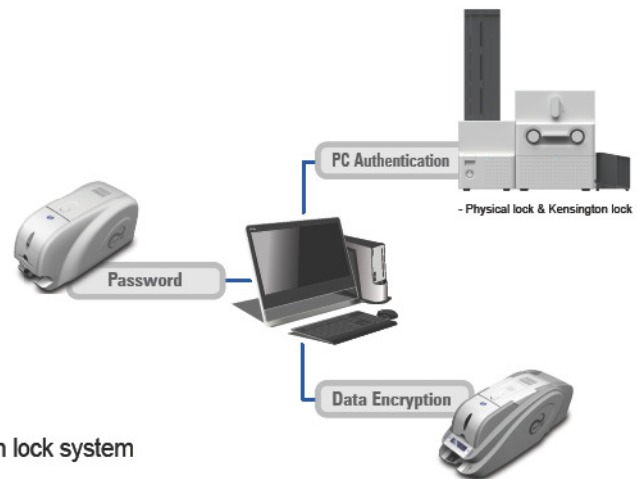
NETWORKING

SMART series can utilize the network printer server for encoding and printing cards.

- 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.
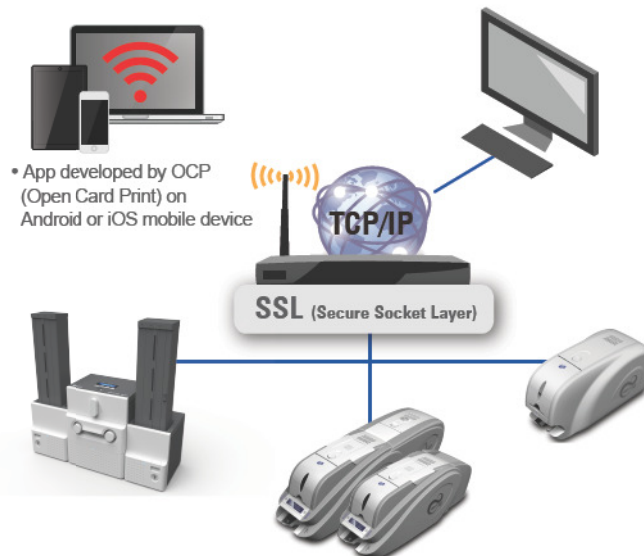
SMART-70 Series the large capacity card printer from IDP is ideally suited to users who have large capacity needs, or for end-users who would like to secure their credential media in the securely locked printer.

The SMART-70 Series offers a unique modular design that is easily upgraded by the end-user. Configurations vary from single sided only printing to a fully configured system with dual sided printing, lamination and 500 cards output hopper.

The easily upgradeable: the printer offers a simple no-tool upgrade strategy that any dealer or IT technican would be able to manage in minutes.

Saving maintenance time for replacing ribbon and laminating patch : 500 card ribbon and laminating patch are provided to match the capacity of the input hopper.

Each station (printer. encoding station, laminator, flipper, hopper) connects with an alignment plate. Each station has its own power supply and communication cables are provided to connect each station and synchronize their operation.

SMART, Smarter than any other ID Card Printer!

FEATURES

• **Input Hopper**

- Large Capacity
  Max. 500 cards

- Scratch Free
  Preventing damage on the surface of cards by pushing cards to the weight dispersion point to disperse the weight of stacked cards.

- Hook for Card-In
  Hook is applied to the input hopper for assuring the correct card feeding

- Physical Lock & Kensington Lock

• **Printer**

- High-Durability
  Metal Frame & Shaft, All bearing

- The enhanced FINE™ Imaging Technology

- Automatic load balancing of Ribbon Core
  Improved print quality with automatic load balancing of the ribbon core depending on remaining ribbons

- Drawer type Ribbon Cartridge

- Installable Encoder (MS & Contactless)

- Physical Lock & Kensington Lock

• **Output Hopper**

- Large Capacity
  Max. 500 cards

- Scratch Free
  Preventing damage on the surface of cards by raising the stacked cards

- Physical Lock & Kensington Lock

• **Stacker**
(Max. 100 cards)
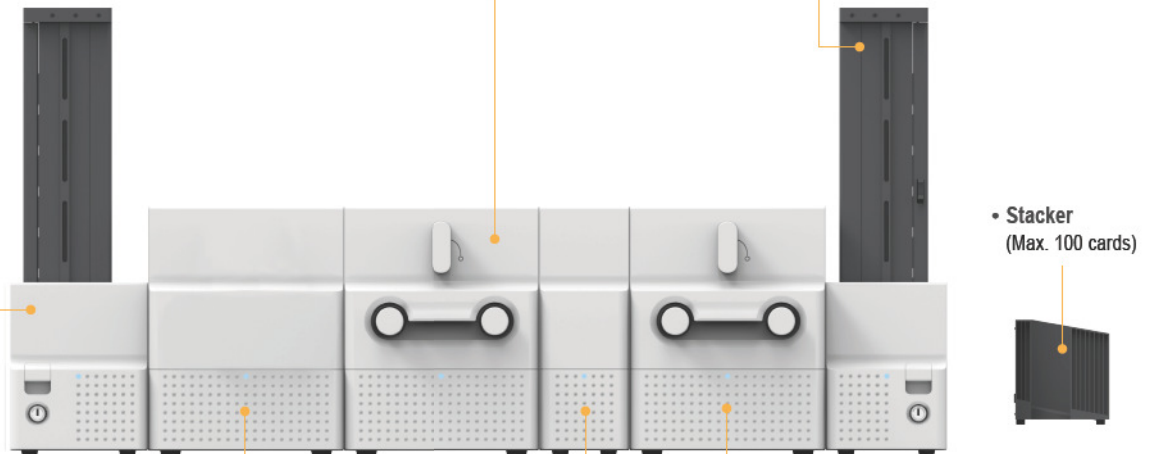
• **Encoding Station**

- Encoders & Reader
  MS, Contact & Contactless smart card encoder, 1D & 2D-Barcode reader

- Reversible Magnetic Stripe Encoder

- Scratch Free
  The MS encoding head is put down only when the card is being encoded

- Kensington Lock

• **Flipper**

- Error Card Bin

- Physical Lock & Kensington Lock

• **Laminator**

- Instant Direct Heating Laminator
  No warming-up time, Low power consumption

- Laminating patch Position Adjustment
  Vertical & horizontal position can be adjusted

- 95% Laminating patch Coverage

- Drawer type Laminate patch Cartridge

- Physical Lock & Kensington Lock

SMART-70 Series *whatever you want or need!*

Performance class

FLEXIBILITY

- **Single Sided Printing**
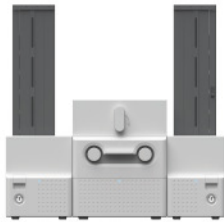 Printer, Input Hopper, Stacker

- **Single Sided Printing**
  Printer, Input/Output Hoppers

- **Dual Sided Printing**
  Printer, Input Hopper, Flipper, Stacker

- **Dual Sided Printing**
  Printer, Input/Output Hoppers, Flipper

- **Stand-alone Laminating**
  Laminator, Input/Output Hoppers

- **Single Sided Printing & Laminating**
  Printer, Input Hopper, Laminator, Stacker

- **Single Sided Printing & Laminating**
  Printer, Input/Output Hoppers, Laminator

- **Dual Sided Printing & Laminating**
  Printer, Input Hopper, Flipper, Laminator, Stacker

- **Dual Sided Printing & Laminating**
  Printer, Input/Output Hoppers, Flipper, Laminator

- **Dual Sided Printing, Laminating & Encoding**
  Printer, Encoders, Input/Output Hoppers, Flipper, Laminator

Versatile Hopper

- **High Volume Input/Output Hoppers**
  (Max. 500 cards ea.)
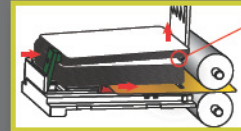- **Multi-Hopper**

- **Scratch Free**

  - **Input Hopper**

    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.
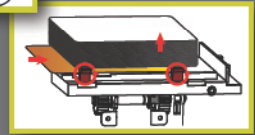
    This process prevents the stacked cards from making scratches on the lower cards' surface.

    Weight dispersion point

    * Input Hopper

    * Output Hopper

  - **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.

    *registered patent

High Durability

Metal Frame

Metal Shaft & All Bearing

Ideal for KIOSK

High Capacity

Multi Hopper

Scratch Free

High Durability

High Speed Printing

Modular Design

Single sided ID CARD PRINTER
SMART-**50S**

Dual sided ID CARD PRINTER
SMART-**50D**

- Color & Mono Single Sided Printing
- Print Speed: 22 sec./card (YMCKO)
- 300dpi with Edge-to-Edge Printing
- 2 Lines LCD with 2 LED Buttons for Front Operation
- Advanced Cleaning Roller
- Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contactless, SIM
- Upgradable Modules: Flipper, Laminator & Ethernet

- Single or Dual Sided Printing
- Print Speed: 27 sec./card (YMCKOK)
- 300dpi with Edge-to-Edge Printing
- 50S Field Upgradable to 50D
- 2 Lines LCD with 2 LED Buttons for Front Operation
- Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contactless, SIM
- Upgradable Modules: Laminator & Ethernet

Value class   **SMART-30 Series** *is Value for Everyone!*

Single sided ID CARD PRINTER
SMART-**30S**

Dual sided ID CARD PRINTER
SMART-**30D**

- Color & Mono Single Sided Printing
- Print Speed: 28 sec./card (YMCKO)
- 300dpi with Edge-to-Edge Printing
- LED Button for Front Operation
- Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contactless
- Upgradable Modules: Flipper & Ethernet

- Single or Dual Sided Printing
- Print Speed: 33 sec./card (YMCKOK)
- 300dpi with Edge-to-Edge Printing
- Field Upgradable by Installation of Flipper on SMART-30S
- LED Button for Front Operation
- Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contactless
- Upgradable Modules: Ethernet

SMART, Smarter than any other ID Card Printer!

Feel the precise printer solution from the **SMART-50 Series**

Standard class

Laminating **ID CARD PRINTER**

SMART-**50L**

COLOR | MONO | UV U V | LAMINATE | Dual Side

- Single or Dual Sided Printing and Laminating
- Instant Direct Heating Lamination *patent
- Printing & Laminating Speed: 23 sec./card (YMCK & Single Lamination)
- 300dpi with Edge-to-Edge Printing
- 50S & 50D Field Upgradable to 50L
- 2 Lines LCD with 2 LED Buttons for Front Operation
- Holographic Lamination for Visual Security & Card Durability
- Installable Encoders: MS, Contact & Contactless, SIM
- Upgradable Modules: Ethernet

SMART-30 Series *is Value for Everyone!*

Value class

Rewritable **ID CARD PRINTER**

SMART-**30R**

RW Rewritable

- Direct Thermal Rewritable Method
- Rewrite Speed: 20 sec./card
- LED Button for Front Operation
- Installable Encoders: MS, Contact & Contactless
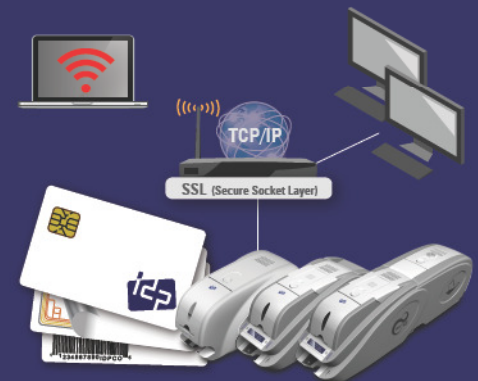- Upgradable Modules: Ethernet

Applications

- ID / Membership
- Access control / Security
- Healthcare
- Banking Card
- Transportation
- Retail
- Gift / Promotion / Loyalty

High-Security

Lamination/Overlay
UV Panel
300dpi & Edge to Edge
Contact
Contactless
Magnetic Stripe

Networking

TCP/IP
SSL (Secure Socket Layer)
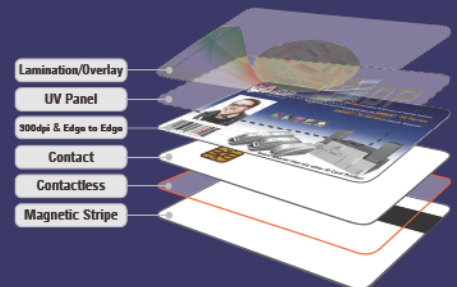
Available encoding
the contact & contactless smart card
by Ethernet

Rewritable

ERASE | Rewrite

Visitor
Marketing Manager
Jessy Roberts

Visitor
Sales Manager
John Kennedy

Rewrite | ERASE

Provides a cost effective solution!

Retransfer class

Applications

ID / Membership
Access control / Security
Healthcare
Banking Card
Transportation
Retail
Gift / Promotion / Loyalty

Print with Security

UV Printing

Media Cassettes

Security Erase

Reverse-transfer printing process

2. Image is transferred Onto a card
1.YMCK printing on Re-transfer film.
3. Finished card

Consumables

Ink Ribbon & Retransfer Film

WISE-CXD80

FEATURES

- Detachable and anytime-refillable hopper
- Intuitive, and flexible function LCD panel
- Removable and water-washable cleaning roller
- Security locks on hopper & front door
- Kensington lock
- Inilne encoding and lamination (with optional unit)
- Environmentally friendly compact design

COLOR | MONO | UV U V | Dual Side

WISE-CL600
Laminating ID CARD PRINTER

The superior quality of lamination printing for high security

COLOR | MONO | UV U V | LAMINATE | Dual Side

Specifications

Model		WISE-CXD80S (Single side)	WISE-CXD80D (Dual sides)
Printing	Print Type	Dye Sublimation / Resin Thermal Retransfer	
	Print Area	Full Bleed (Real edge-to-edge)	
	Resolution	300 dpi	
Card	Card Feeding	Automatic	
	Card Size	ISO CR80 (54mm x 86mm / 2.12"x3.38")	
	Card Thickness	0.25mm(10mil) ~ 1.0mm(40mil)	
	Card Type	PVC, Composite PVC, PET	
Print Speed	YMCK	40 sec./card (90 cards/hour)	40 sec./card (90 cards/hour)
Capacity	YMCKK	-	55 sec./card (65 cards/hour)
System	Input & Output	100 cards each(0.76mm)	
	Supported Platform	Microsoft Windows 2000 Pro., XP, Vista, Windows Sever 2003 R2 SP2, Sever 2008	
	Communication	USB2.0, Ethernet fitted as standard	
	Power Supply	Max. 3A (100V to 120V), Max. 1.5A (220V to 240V)	
	Temperature/Humidity	15~35℃ / 35~70%	
Dimensions	Dimensions (WxLxH)	343mm (13.5") x 322mm (12.7") x 335mm (13.2")	
	Weight (kg/lbs)	13.0 / 28.7 (without optional unit)	15.5 / 34.2 (without optional unit)
Ribbon		YMCK (1,000 prints), YMCKK (750 prints), YMCKUV (750 prints), YMCKPO (750 prints)	
		Retransfer Film (1,000 prints)	
Options		Magnetic stripe Encoding (HiCo/LoCo), Contact chip Encoding (Read/Write)	
		Contactless Encoding, Bend Remedy Unit, Lamination Unit (*WISE-CL600)	
Certifications		CE, FCC, KC	

COLOR RIBBONS

Ribbon Type	YMCKO	YMCKOK	YMCFKO	HYMCKO
Ribbons for SMART-70 Series	Full Color Ribbon with Resin Black & Overlay	Full Color Ribbon with Resin Black, Overlay & Black for Back Side	Full Color Ribbon with UV Panel, Resin Black and Overlay	Half Panel Size Color Ribbon with Resin Black and Overlay
Capacity	500 Cards/Roll	500 Cards/Roll	500 Cards/Roll	1000 Cards/Roll
SMART-70	O	-	O	O
SMART-70 with Flipper	O	O	O	O
SMART-70 with Laminator	O	-	O	O
SMART-70 with Flipper & Laminator	O	O	O	O
Ribbons for SMART-30/50 Series	Full Color Ribbon with Resin Black & Overlay	Full Color Ribbon with Resin Black, Overlay & Black for Back Side	Full Color Ribbon with UV Panel, Resin Black and Overlay	Half Panel Size Color Ribbon with Resin Black and Overlay
Capacity	250 Cards/Roll	200 Cards/Roll	200 Cards/Roll	350 Cards/Roll
SMART-30S/50S	O	-	O	O
SMART-30D/50D	O	O	O	O
SMART-50L	O	O	O	O

SECURITY FILMS

Ribbon Type	CPF	HPF
Ribbons for SMART-70 Series	Clear Patch Film	Hologram Patch Film
Capacity	500 Cards/Roll	500 Cards/Roll
SMART-70	-	-
SMART-70 with Flipper	-	-
SMART-70 with Laminator	O	O
SMART-70 with Flipper & Laminator	O	O
Ribbons for SMART-30/50 Series	Clear Patch Film	Hologram Patch Film
Capacity	250 Cards/Roll	250 Cards/Roll
SMART-30S/50S	-	-
SMART-30D/50D	-	-
SMART-50L	O	O

MONO RIBBONS

Ribbon Type	KO	K	W	B	R	MG	MS	SO
Description	Black with Overlay	Black	White	Blue	Red	Metallic Gold	Metallic Sliver	Scratch-Off
Ribbons for SMART-70 Series								
Capacity	1500 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll	3000 Cards/Roll
SMART-70 Series	O	O	O	O	O	O	O	O
Ribbons for SMART-30/50 Series								
Capacity	600 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll	1200 Cards/Roll
SMART-30 Series	O	O	O	O	O	O	O	O
SMART-50 Series	O	O	O	O	O	O	O	O

CLEANING KITS

Long Cleaning Card	Short Cleaning Card	Cleaning Swab	Cleaning Pen
Automatic Cleaning	Manual Cleaning	Print Head & Roller Cleaning	Print Head Cleaning

CARD

Primuss Card

PVC, CR80

SMART Series Specifications

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	18 sec./card (200 cards/hour), Max. 16 sec./card (225 cards/hour)
	YMCKOK	24 sec./card (150 cards/hour), 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	Microsoft Windows 2000/ 2003/ XP/ Vista/ 7/ 8, Mac OS, Linux
	Communication	USB, Ethernet
	Power Supply	Free voltage (AC 100/ 220V, 50~60Hz)
	Power Consumption	24V, 2A
	Temperature/Humidity	15~35℃ / 35~70%
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 (H)
Weight	kg/lbs	Approx. 6.3 kg/13.9 lbs

SMART-70 Laminator

Laminating	Type	Direct Heating Lamination
	Speed	14 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, 2A
	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 (H)
Weight	kg/lbs	Approx. 6.1 kg/13.4 lbs

SMART-70 Flipper

System	Communication	USB, RS-232C
	Power	Free Voltage (AC 100/ 220V, 50~60Hz) / 24V, 2A
	Temperature/Humidity	15~35℃ / 35~70%
Security	Physical Lock	Cards
	Station Itself	Kensington Lock
Dimensions	Millimeter	110 (W) x 204 (L) x 305 (H)
	Inch	4.3 (W) x 8.0 (L) x 12 (H)
Weight	kg/lbs	Approx. 2.8 kg/6.2 lbs
Error Card Bin		Ejection device for faulty card is equipped inside Flipper (Max. 30 cards)

SMART-70 Encoding Station

Encoding Sensor	Magnetic	ISO 7811 (Track I, II, III Read/Write, HiCO / LoCo), JIS II
	Contact	ISO 7816 (ID-1)
	Contactless	MIFARE, ISO 1443 (Type A/B), ISO 15693, DEFIRE, iCLASS
	Barcord Reader	1D & 2D Barcode Reader (Front/Back)
System	Communication	USB, RS-232C
	Power Supply	Free Voltage (AC 100/ 220V, 50~60Hz)
	Power Consumption	24V, 2A
	Temperature/Humidity	15~35℃ / 35~70%
Security	Physical Lock	Encoding Station
	Station Itself	Kensington Lock
Dimensions	Millimeter	240 (W) x 214 (L) x 305 (H)
	Inch	9.5 (W) x 8.4 (L) x 12 (H)
Weight	kg/lbs	TBD

SMART-70 Input / Output Hoppers

Capacity	Input / Output	Max. 500 cards
	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

SMART-50 & 30 Series

Model		Standard Class			Value Class		
		SMART-50S	SMART-50D	SMART-50L	SMART-30S	SMART-30D	SMART-30R
		Single Sided	Dual Sided	Dual Sided & Laminator	Single Sided	Dual Sided	Rewritable
Printing	Print Type	Dye-Sublimation	Dye-Sublimation	Dye-Sublimation	Dye-Sublimation	Dye-Sublimation	Thermal Transfer
	Print Area	Edge to Edge					
	Resolution	300dpi					
	Dual Side Printing	Option (with Flipper)	Yes	Yes (Flipper Installed)	Option (with Flipper)	Yes	No
Card	Card Feeding	Automatic					
	Card Size	ISO CR80 (54mm x 86mm / 2.12" x 3.38")					
	Card Thickness	0.38mm (15mil), 0.76mm (30mil)			0.38mm (15mil), 1.0mm (40mil)		
	Card Type	PVC, PET, Composite PVC	PVC, PET, Composite PVC	PVC, PET, Composite PVC	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)	5 sec./card (720 cards/hour)	5 sec./card (720 cards/hour)	5 sec./card (720 cards/hour)	20 sec./card (180 cards/hour) Max. 12 sec./card (300 cards/hour)
	YMCKO	22 sec./card (164 cards/hour) Max. 18 sec./card (200 cards/hour)	22 sec./card (164 cards/hour) Max. 18 sec./card (200 cards/hour)	22 sec./card (164 cards/hour) Max. 18 sec./card (200 cards/hour)	28 sec./card (128 cards/hour)	28 sec./card (128 cards/hour)	-
	YMCKOK	-	28 sec./card (130 cards/hour) Max. 24 sec./card (150 cards/hour)	28 sec./card (130 cards/hour) Max. 24 sec./card (150 cards/hour)	-	34 sec./card (106 cards/hour)	-
Laminating	Mode	-	-	Single & Dual	-	-	-
	Film (Clear & Holographic)	-	-	0.6mil, 1.0mil	-	-	-
	Speed — Simultaneous	-	-	23 sec./card (YMCK)	-	-	-
	Speed — (Single Lamination)	-	-	33 sec./card (YMCKK)	-	-	-
	Speed — One by One	-	-	44 sec./card (YMCK)	-	-	-
	Speed — (Single Lamination)	-	-	54 sec./card (YMCKK)	-	-	-
Capacity	Input Hopper: Card	100	100	100	80	80	80
	Output Hopper: Card	40	40	40	25	25	25
System	Memory	64MB RAM					
	Display	2 Line LCD	2 Line LCD	2 Line LCD	-	-	-
	Control Panel	2 LED Buttons	2 LED Buttons	2 LED Buttons	1 LED Button	1 LED Button	1 LED Button
	Supported Platforms	Microsoft Windows 2000/ 2003/ XP/ Vista/ 7/ 8, Mac OS, Linux					
	Communication	USB, Ethernet (Option)					
	Power Supply	Free Voltage (AC 100/ 220V, 50~60Hz)					
	Power Consumption	48	48	96	48	48	48
	Temperature/Humidity	15~35°C / 35~70%					
Dimensions	Millimeter (WxLxH)	170 x 420 x 195	170 x 510 x 195	170 x 700 x 195	172 x 377 x 190	172 x 472 x 190	172 x 377 x 190
	Inch (WxLxH)	6.7 x 16.5 x 7.7	6.7 x 20.0 x 7.7	6.7 x 27.6 x 7.7	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	4.5 / 10	5.5 / 12	9.2 / 20	3.4 / 7.5	4.2 / 9.5	3.4 / 7
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	Certifications	CB, CE, FCC, KC, C-tick, UL			CB, CE, FCC, KC, C-tick		

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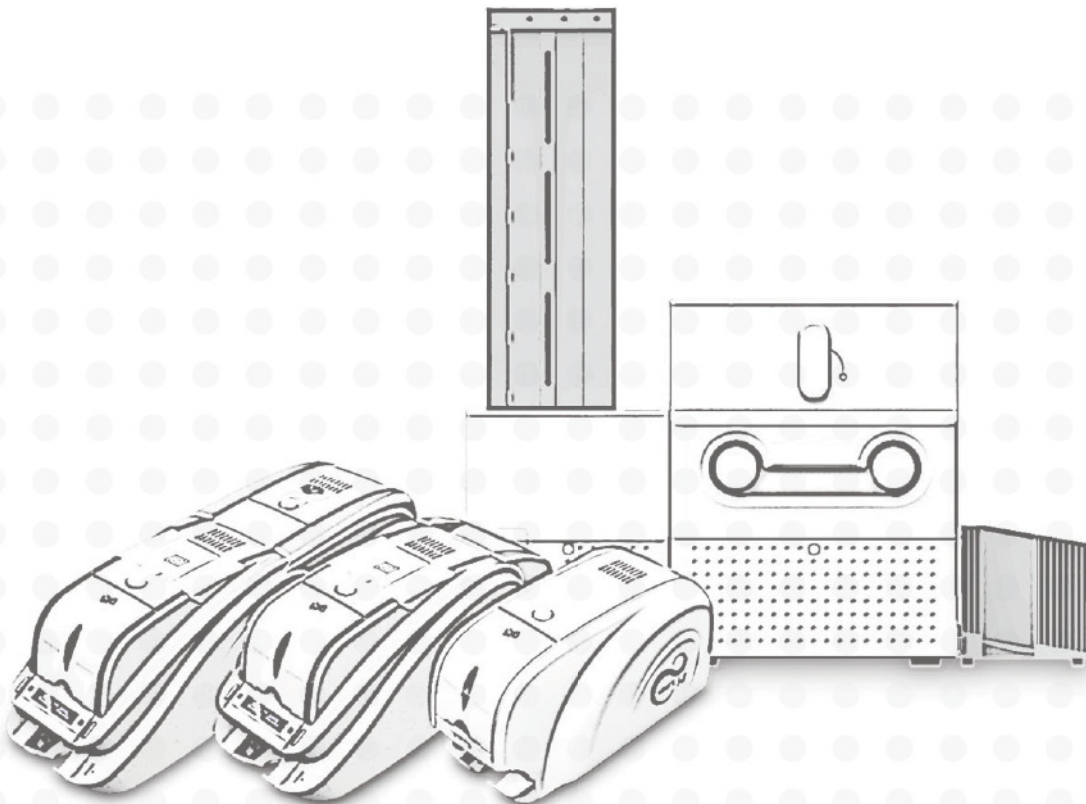
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