

CARDSOON

TS20

卡树®

LASER
PERSONALIZATION SYSTEM

Full Color Printing & Laser engraving for Smart Card



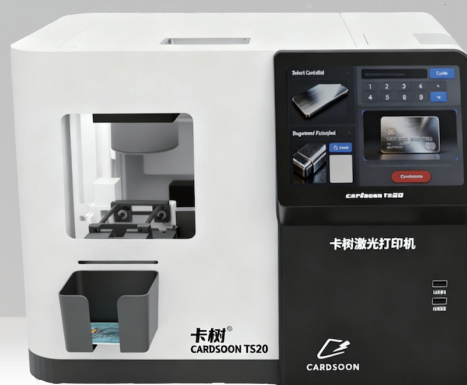
Cardsoon TS20

— Compact, Quiet, and Perfect for Office Use.

Next-Generation Laser Personalization System

TS20 SYSTEM

- Compact All-in-One Design
- Laser-Accurate Card Counting
- SMART Air Filtration System
- Easy-to-Use cardsoon Software



The cardsoon TS20 System offers the perfect blend of compact convenience, reliability, and security for office environments, providing a one-stop solution for high-quality ID card issuance.

With advanced laser engraving technology, it enhances anti-counterfeiting features and meets the strictest security standards. The Cardsoon Laser Personalization System is the ideal choice for organizations requiring high-security credentials, including driver's licenses, residence permits, national IDs, military IDs, and other government-grade identification cards.

Innovative Modular Architecture

One of most distinctive advantages is the integration of color printing and laser engraving modules, combined with a modular data read/write system that can be easily updated as needed. It supports cardsoon USB 3.0 storage cards, as well as ISO/IEC 7816, 14443, 7811 standard magnetic stripecontact and contactless IC cards.

High-Resolution Printing and Engraving

The dye-sublimation color printing module delivers full-color output at up to 300 dpi with exceptional image quality. After printing, cards are precisely transferred to the compact desktop fiber laser engraving module, powered by high-performance MOPA, producing 300–600 dpi grayscale engravings — including portraits, logos, text, and barcodes — with remarkable clarity and permanence.

Smart Environmental Design

Equipped with a SMART Air Filtration System, the TS20 is engineered specifically for office environments. Its pressure-balanced filtration design efficiently removes toxic gases generated during laser engraving, maintaining a clean and safe workspace.

Advanced Security Features

The color printing module enables visual authentication and anti-forgery elements, while the laser engraving unit creates tactile embossed effects for physical verification and permanently embeds data into the card body — both dramatically enhancing card security.

Superior Usability & Low Maintenance

The TS20 starts instantly with no warm-up required for its fiber laser. Maintenance is minimal — only periodic lens cleaning is needed. With 0.1 mm laser detection accuracy, the system precisely identifies the number of cards in the feeder, while the ribbon usage indicator allows real-time monitoring of consumables. Its auto-feed, write, print, and engrave design eliminates manual intervention, supported by a unique card transport mechanism and vertical laser autofocus adjustment for superior efficiency.

Specifications

Print Type

Color: Direct Dye-Sublimation 300dpi

Print Mode: Single-sided

Resolution: 300dpi - 600dpi

Laser Engraving

- Laser Type: Fiber Laser
- Wave Length: 1064nm
- Laser Type: Fiber Laser
- Wave Length: 1064nm
- Scanning: Raster Scanning
- Engraving Mode: Single or Dual-sided Laser Engraving

Production Speed

Printing variable information ordinary ID card and 300dpi laser etching, about 120 cards per hour.

Card

Card Size: ISO CR80 (54mm x 86mm)

Card Thickness: 0.76mm-1.03mm

Card Type: PC, Laserable PVC

Capacity

Input Hopper: up to 100

System⁽¹⁾

Display: 8" LCD

Hardware

- Industrial motherboard
- 500G SSD
- 8Gb DDR4

OS

- Windows 10

Software

- Cardsoon laser printing software
- SoonDesign

Interface

Interface: 2 USB2.0 in the front, 2 USB.0 in the back

Dimensions

WxLxH: 524x363x424

Weight

30kg

Power Supply

100V to 220V ±10%

Temperature

10~30 °C

Humidity

20~80%

Warranty

Print module: 3 years

Print head: Lifetime warranty⁽²⁾

Laser module: 2 years (or 1,000,000 cards, whichever comes first)

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CARDSOON

The Final Gatekeeper of Digital Security

⁽¹⁾ The above specifications are for reference only. Please contact us for the latest product information.
⁽²⁾ Only original CARDSOON ribbons can enjoy the warranty.

cardsoon.com/laser