



Thermal transfer overprinting **SmartDate® X45**



Transferring more value to you

Designed for medium-duty applications, the **SmartDate® X45** delivers high-quality coding on flexible film packaging up to 220 packs per minute.

Its fully intuitive 10.1" user interface makes daily operations easy and straightforward while providing the most valuable information you need to optimize and improve your Overall Equipment Effectiveness (OEE) through Line Analysis reporting.

Your benefits

- Achieves superior printing speeds
- Eliminates faulty codes and protects your brand
- Profile configurator for error-free operation
- Optimized tracking of OEE data
- Supports your marketing campaigns

Product features

High-performance printing

- Promotional coding function* allows for unique coding on each pack.
- In addition to its dead-dot detection system, the easy-to-install **SmartDate® Detect-Plus** system* checks and confirms the code's presence, position and quality on every pack and directly on the user 10.1" interface.
- Print speed from 30 mm to 600 mm per second**, allowing for 220 printed packs per minute at 300 dpi.

Unmatched and cost-effective reliability

- Zero preventive maintenance - Robust direct ribbon drive and cassette design contain no wear parts.
- Choice between intermittent or continuous configurations and 32 mm or 53 mm printheads.
- Up to 15%*** more codes per roll - Large choice of ribbon based on your packaging type and needs.

Enhanced SmartDate® experience

- Coder can be configured to monitor your 5 most important production metrics directly from your home screen e.g., pack rate, throughput, availability.
- Animated help and 'how to' tutorials provide guidance on setup and daily maintenance procedures to ensure consistent print quality.
- Configurable profile password function (operator, supervisor and engineer, or your own profile) manages access and limits human-related errors.

*Optional ****SmartDate® X45** continuous ***Compared to other competitive models

SmartDate® X45 Specifications

Print Features

Print speed:

Intermittent: up to 600 mm/s
Continuous: 10 to 600 mm/s

Print area:

Intermittent: 32 mm or 53 mm x 75 mm
Continuous: 32 mm or 53 mm x 250 mm

Gap between prints: 0.5 mm

Print features:

Automatic printhead setup
Detect: Dead-dot detection
Quick change printhead
Easily change from left to right hand (and vice versa) with no additional parts
Automatic shift codes and serial numbers
Multiple variable user input fields with alpha-numeric texts

Print features: Printing of real-time clock, dates and auto-updating best before dates, barcodes

Fonts: True Type font support, including non-Roman characters and symbols

Wide choice of 1D and 2D barcodes: ITF, Code 39, Code 128, EAN 128, EAN 8, EAN 13, UPC A, UPC E, RSS linear, PDF 417, GS1 standard compliant, Data Matrix, QR and Composite RSS barcodes support

Consumable Specifications

Thermal transfer ribbons available in a variety of grades and colors

Maximum ribbon length: up to 1100 m

Minimum ribbon width: 20 mm

Maximum ribbon width: 55 mm

Ribbon save options: Interlaced mode, radial

ribbon save mode, radial interlaced mode, radial whitespace mode and step advance mode

Best results with **SmartDate® Xceed**, **SmartDate® Xtra** and **SmartDate® Xpert** ribbon ranges

Operating Characteristics

User interface:

10.1" full colour 1024 x 600 touchscreen for message selection, variable data entry, diagnostics and system setup

Line analysis: a built-in process improvement tool. Once enabled, packaging line downtime reasons can be logged and analyzed, facilitating data-driven decision-making

Suite of diagnostics tools available

Advanced health and availability monitoring
Configurable user home screen
Animated help tutorials: ribbon fitting, printhead cleaning, printhead replacing
Configurable password protection capability
WYSIWYG print preview of printed message, real-time display of remaining prints expressed in hours and number of prints

Hardware interface:

Inputs: "Print go" and 1 configurable input
Outputs: Fault, warning, and 2 configurable outputs

Software interface: USB for downloading images, settings and data files. RS232, Ethernet communications standard. Communications protocols for PCs, PLC and packaging machines, including full remote control web server

Other:

Parent/Child function to allow control up to 7 printers
Robust LED status indicators on the printer
Webbing diagram for fast ribbon changes

Weight:

- Printer: 7.8 kg
- Color controller: 4.5 Kg

Environment:

Temperature range: 0°C to 40°C
Humidity: 10% to 90% non-condensing
Electrical power supply: 90 - 264 V with automatic switching; frequency 47/63 Hz; power 150 VA
Air consumption: from 0.4 ml/print at 2.5 bar
Air supply: 6 bar/90 psi (maximum) dry, uncontaminated

Options and Accessories

Detect-Plus: Code detection

SmartDate® OEM Connect

Promotional coding

Mounting bracket, encoders, and barcode scanner
WEB Browser and Virtual Network Computing (VNC) support

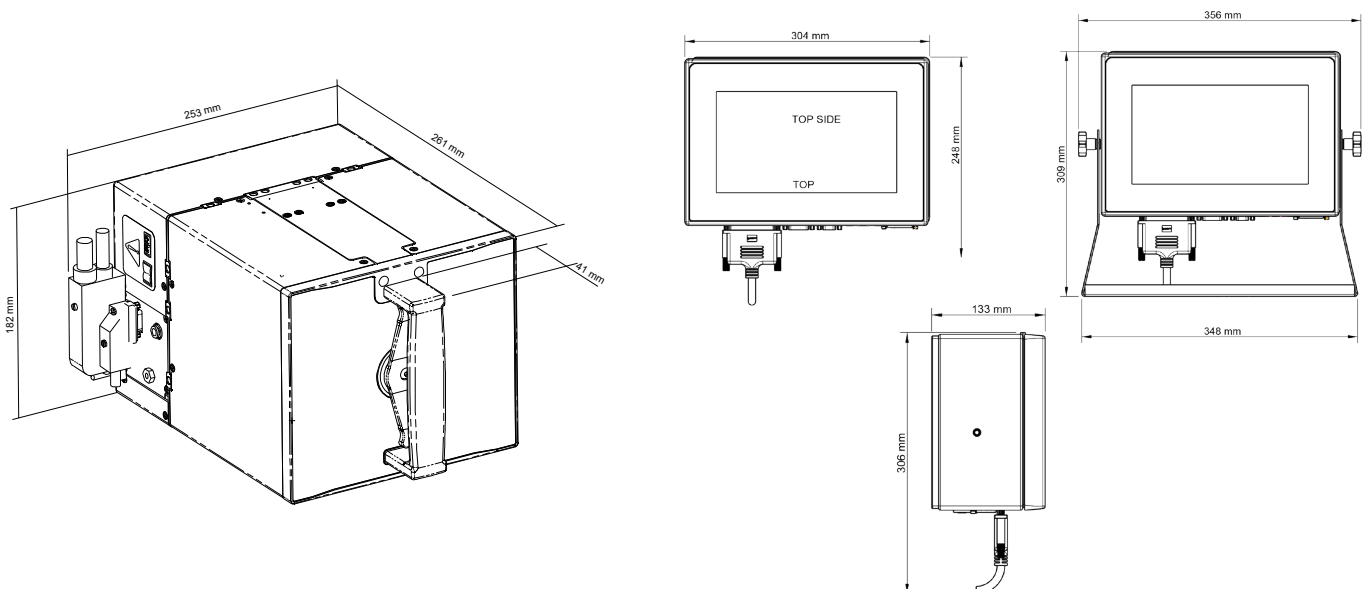
IP protection kit for installed **SmartDate® X45**

Service

Markem-Imaje offers the sector's most comprehensive array of digital, remote and on-site services to further empower our customers to maximize the return on their investment in our solutions. Designed to satisfy Industry 4.0 demands for increased customization and remote 24/7 digital assistance to reduce downtime, the portfolio of maintenance services is tailored according to user needs, skills and available resources

Software

Included **CoLOS® Free 6.0** for design of simple messages.



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