

Thermal transfer overprinting

Built robust

Robust one-box solution that can be easily installed on your line or integrated by OEMs. It is the ideal coder for low to medium speed production lines printing on flexible film.

Compact one-box solution

Extremely compact in size (20 cm x 17 cm x 18 cm), it can easily be integrated into your production line and integrated by OEMs.

Increased uptime and reduced expenses over time

No need for plant air to install. In addition to reducing costs, print quality will remain constant through the years.

Automatic set-up; no human intervention required

Ribbons and printhead are automatically recognized and adjusted to code minutes after you start it.

Dead-dot detection system to eliminate faulty codes

Constant quality codes thanks to unique printhead monitoring.

Built for you

Modular all the way! Pick, choose and buy exactly what you need to code your products

Choose the right ribbon type and get up to 15%* more codes per roll

Make the most of your SmartDate coder with three cutting edge ribbon solutions: SmartDate Xceed, SmartDate Xtra, or SmartDate Xpert to cover all of your flexible packaging coding needs, from basic to complex.

Select the right accessories according to your need and budget

Choose between one user interface for several coders or one for each—with or without the power supply. All accessories have been designed with optimization in mind.

Built by Markem-Imaje

Benefit from the world's leading thermal transfer supplier's decades of expertise

Unmatched reliability

Simple, robust design, proven in packaging facilities worldwide, delivers consistent results you can rely on.

Markem-Imaje quality service you can trust

Gain direct access to one single point of contact for expert support on both your coder and ribbon.



Compact in size for easy integration. SmartDate X30 is the smallest of SmartDate coders.



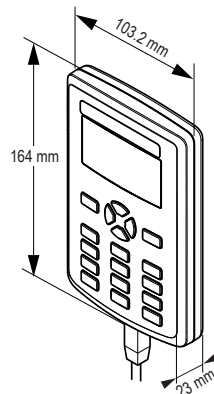
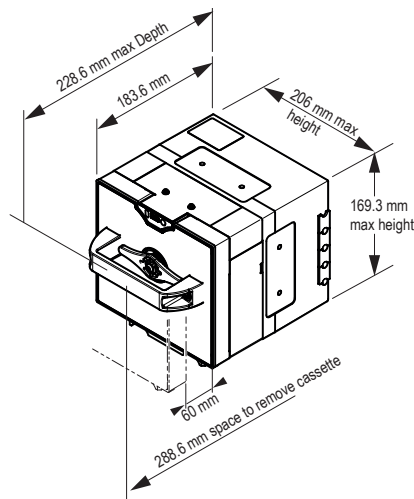
Choose between three ribbon types and a series of accessories according to your package type and needs.



World leading service to guarantee uptime and quality coded products.

*Compared to other competitive models.

SmartDate® X30 - Specifications



Print features

- Print speed:
 - Continuous: 50 to 600 mm/s
 - Intermittent: 100 to 600 mm/s
- Print area:
 - Intermittent: 32 mm x 40 mm
 - Continuous: 32 mm x 50 mm
- Printer features:
 - Automatic printhead setup
 - Dead-dot detection
 - Average gap between prints: 0.5 mm
 - Automatic shift codes and serial numbers
 - Multiple variable user input fields with alpha numeric texts
- Ribbon saving mode:
 - Radial ribbon saving
 - Interlaced mode
- Print specifications: True type font support, including non-Roman characters and symbols. Printing of real-time clock, dates and auto updating best before dates, barcodes including: HanXin, QR/GS1, RSS

Operations

- Hand held terminal interface with LCD screen for message selection, variable data entry, diagnostics and system setup
- Hot swappable/removable user interface
- Full diagnostics
- Robust LED status indicators on the printer
- Hardware interface:
 - Inputs: "Print go" and 1 configurable input
 - Outputs: Fault, warning
 - USB for downloading images, settings and data files
 - RS232, Ethernet communications standard
 - Communications protocols for PCs, PLCs and packaging machines

Other characteristics

- Supplies:
 - Variety of thermal transfer ribbons: SmartDate Xceed, SmartDate Xtra and SmartDate Xpert
 - Ribbon widths: 22 mm and 33 mm
 - Maximum ribbon length: up to 700 m
- Printer weight:
 - Intermittent: 5.5 kg
 - Continuous: 5.0 kg
- Electrical power supply: ~ 110 – 230 Vac (+/- 10%) 50 – 60 Hz
- SmartDate X30 without power supply requires 24 VDC
- No air supply required
- Operating temperature range: 0 to 40 °C
- Humidity: 10% to 90% non-condensing

Software

- Included, free of charge, CoLOS® Create for design of simple messages; compatible with CoLOS® Create Pro and CoLOS® Enterprise version 4 or higher

Optional accessories

- Mounting bracket
- Encoder

Code with CONFIDENCEsm – Ensure excellent performance and peace of mind with our array of genuine Markem-Imaje after-sales services. Offerings include spare part kits, consumables solutions and service packages including start-up packages, extended warranty contracts, service exchange programs and all-inclusive agreements. With Markem-Imaje you redefine your production possibilities.

We reserve the right to amend the design and/or specifications of our products without notice. Please refer to the user manual for information on certification.

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Thermal Transfer Overprinting

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 optimise and improve your Overall Equipment Effectiveness (OEE) through MI Sigma reporting.

Enhanced SmartDate experience

- Optimised tracking of OEE data**
 Coder can be configured to monitor your 5 most important production metrics directly from your home screen e.g., pack rate, throughput, availability.
- Tutorials to facilitate daily activities**
 Animated help and 'how to' tutorials provide guidance on setup and daily maintenance procedures to ensure consistent print quality.
- Profile configurator for error-free operation**
 Configurable profile password function (operator, supervisor and engineer) manages access and limits human-related errors.



A 10.1" colour user interface offers a fully intuitive user experience to provide simple operation in just a few clicks.

High-performance printing

- Supports your marketing campaigns**
 Promotional coding function* allows for unique coding on each pack.
- Eliminates faulty codes and protects your brand**
 In addition to its dead-dot detection system, the easy-to-install SmartDate Detect-Plus system* checks and confirms the presence, position and quality of the code on every pack and directly on the user 10.1" interface.
- Achieves superior printing speeds**
 Print speed can be set from 30 mm to 600 mm per second allowing for 220 printed packs per minute at 300 dpi.



Ideal for multiple line coding including text, logos and barcodes.

Unmatched and cost-effective reliability

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



Three ribbon types available: SmartDate Xtra, SmartDate Xceed and SmartDate Xpert.

*Optional **Compared to other competitive models.

SmartDate X45 - Specifications

Print features

- Print speed:
 - Intermittent: up to 600 mm/s
 - Continuous: 30 to 600 mm/s
- Print area:
 - Intermittent: 32 mm or 53 mm x 75 mm
 - Continuous: 32 mm or 53 mm x 250 mm
- Print features:
 - Automatic printhead setup
 - Detect: Dead-dot detection
 - Quick change printhead
 - Intermittent or continuous printing
 - Easily change from left to right hand with no additional parts
 - Gap between prints: 0.5 mm
 - Automatic shift codes and serial numbers
 - Multiple variable user input fields with alphanumeric texts
 - High-pack-rate mode
- Ribbon-saving mode: Radial ribbon save, Interlaced mode, Radial mode 1, Radial mode 2, Radial interlaced, Whitespace, Radial whitespace, Step advance
- Print specifications: Full TrueType font support, including non-Roman characters and symbols. Printing of real-time clock, dates and auto-updating best before dates, barcodes: ITF, Code 39, Code 128, EAN 128, EAN 8, EAN 13, UPC A, UPC E, RSS linear, PDF 417, ID Matrix, QR and Composite RSS barcodes support

Operations

- User interface: 10.1" full colour 1024 x 600 touch screen for message selection, variable data entry, diagnostics and system setup
- MI Sigma functionality
- Advanced health and availability monitoring
- Configurable user home screen
- Animated help tutorials: ribbon fitting, printhead cleaning, printhead replacing
- Simple print adjust
- Master/slave function to allow master control for up to 7 slaves
- Configurable password protection capability
- WYSIWYG print preview of printed message, real-time display of remaining print capacity expressed in hours and number of prints
- Full diagnostics (pack rate, speed)
- Robust LED status indicators on the printer
- Webbing diagram for fast ribbon changes
- 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 characteristics

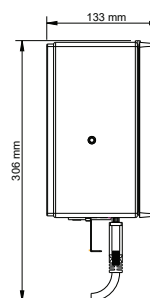
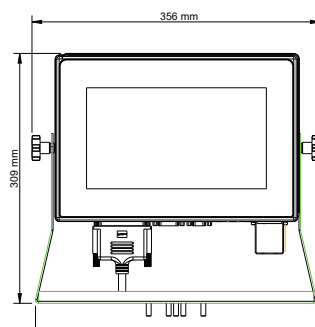
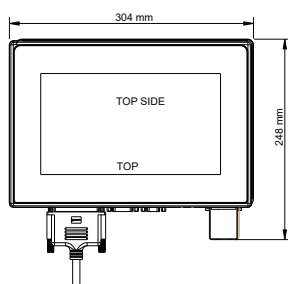
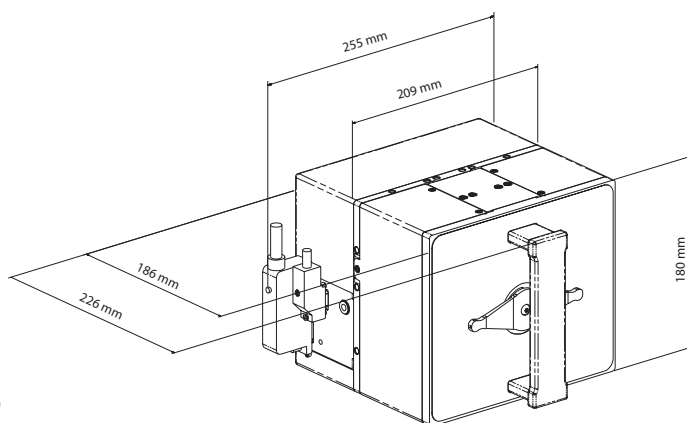
- Supplies: thermal transfer ribbon available in a variety of grades and colour
- Maximum ribbon length: up to 1100 m
- Minimum ribbon width: 20 mm
- Maximum ribbon width: 55 mm
- Weight: Printer: 7.8 kg, colour controller: 4.5 kg
- Electrical power supply: 90 – 264 V with automatic switching; frequency 47/63 Hz; power 150 VA
- Air supply: 6 bar/90 psi (maximum) dry, uncontaminated
- Air consumption: down to 0.4 ml/print at 2.5 bar
- Operating temperature range: 0 to 40°C
- Humidity: 10% to 90% non-condensing

Optional accessories

- Detect-Plus: code detection
- Promotional coding
- IP protection option suitable for pressured water cleaning
- WEB Browser and VNC support
- Mounting bracket
- Encoders
- IP protection kit for installed SmartDate X45

Software

- Included, CoLOS® Free 6.0 for design of simple messages



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Thermal Transfer Overprinting

Designed for wide format printing applications, the SmartDate X65-128 delivers high-resolution coding on flexible film packaging as fast as 400 packs per minute. Its printhead characteristics make it ideal for wide messages such as ingredient and nutritional coding. 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 MI Sigma reporting.

High-performance printing

- Delivers extended performance**
 Up to 128 mm x 500 mm printing area* capacity delivers twice the amount of variable print versus a standard coder thus reducing costs.
- Drives efficiency**
 Minimizes time and effort by printing multiple codes on multi-lane packaging lines on demand, quickly and efficiently.
- Ensures code quality**
 Automatic printhead setup optimizes printhead lifetime and allows for dead-dot monitoring.
- Achieves superior printing speeds**
 Print speed can be set from 10 mm to 700 mm per second allowing for more than 400 printed packs per minute at 300 dpi.



A 10.1" color user interface offers a fully intuitive user experience to provide simple operation in just a few clicks.

Enhanced SmartDate experience

- Optimized tracking of OEE data**
 Coder can be configured to monitor your 5 most important production metrics directly from your home screen e.g., pack rate, throughput, availability.
- Tutorials to facilitate daily activities**
 Animated help and 'how to' tutorials provide guidance on setup and daily maintenance procedures to ensure consistent print quality.
- Profile configurator for error-free operation**
 Configurable profile password function (operator, supervisor and engineer) manages access and limits human-related errors.



Ideal for long ingredient and nutritional fact coding.

Unmatched and cost-effective reliability

- Zero preventive maintenance**
 Robust direct ribbon drive and cassette design contain no wear parts.
- All-in-one printer for enhanced flexibility**
 Both intermittent and continuous configurations are available on the same coder.
- Up to 15%** more codes per roll**
 Large choice of ribbon rolls based on your packaging type and needs.



Three ribbon types available: SmartDate Xtra, SmartDate Xceed and SmartDate Xpert.

*Application Dependant. **Compared to other competitive models.

SmartDate X65-128 - Specifications

Print features

- Print speed:
 - Intermittent: up to 700 mm/s
 - Continuous: 10 to 700 mm/s
- Print area:
 - Max: Intermittent: 128 mm x 75 mm
 - Max: Continuous: 128 mm x 500 mm*
- Print features:
 - Automatic printhead setup
 - Detect: Dead-dot detection
 - Quick change print head
 - Combined intermittent and continuous printing
 - Easily change from left to right hand with no additional parts
 - Gap between prints: 0.5 mm
 - Automatic shift codes and serial numbers
 - Multiple variable user input fields with alphanumeric texts
 - High-pack-rate mode
- Ribbon-saving mode: Radial ribbon save, Interlaced mode, Radial mode 1, Radial mode 2, Radial interlaced, Whitespace, Radial whitespace, Step advance
- Print specifications: Full TrueType font support, including non-Roman characters and symbols. Printing of real-time clock, dates and auto-updating best before dates, barcodes: ITF, Code 39, Code 128, EAN 128, EAN 8, EAN 13, UPC A, UPC E, RSS linear, PDF 417, ID Matrix, QR and Composite RSS barcodes support

Operations

- User interface: 10.1" full colour 1024 x 600 touch screen for message selection, variable data entry, diagnostics and system setup
- MI Sigma functionality
- Advanced health and availability monitoring
- Configurable user home screen
- Animated help tutorials: ribbon fitting, printhead cleaning, printhead replacing
- Simple print adjust and image adjust
- Master/slave function to allow master control for up to 7 slaves
- Configurable password protection capability
- WYSIWYG print preview of printed message, real-time display of remaining print capacity expressed in hours and number of prints
- Full diagnostics (pack rate, speed)
- Robust LED status indicators on the printer
- Webbing diagram for fast ribbon changes
- 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 characteristics

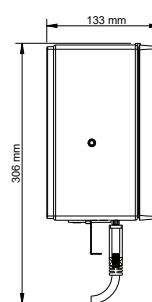
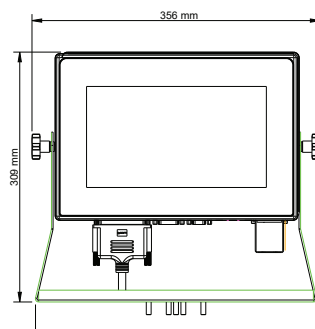
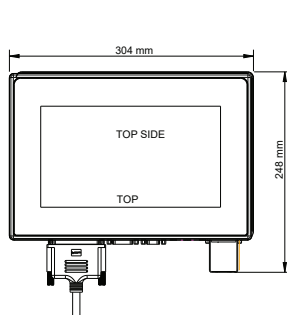
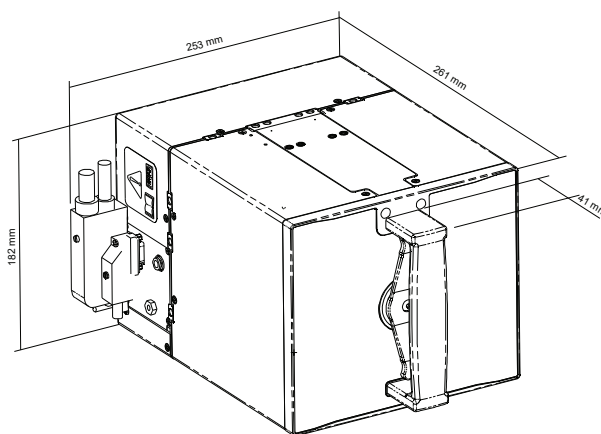
- Supplies: thermal transfer ribbon available in a variety of grades and colors
- Maximum ribbon length: up to 1100 m
- Minimum ribbon width: 55 mm
- Maximum ribbon width: 130 mm
- Weight: Printer: 10.2 kg, Color controller: 4.8 kg
- Electrical power supply: 90 – 264 V with automatic switching; frequency 47/63 Hz; power 150 VA
- Air supply: 6 bar/90 psi (maximum) dry, uncontaminated
- Air consumption: down to 0.4 ml/print at 2.5 bar
- Operating temperature range: 0 to 40°C
- Humidity: 10% to 90% non-condensing

Optional accessories

- Promotional coding
- IP protection option suitable for pressured water cleaning
- WEB Browser and VNC support
- Mounting bracket
- Encoders
- IP protection kit for installed SmartDate X65-128

Software

- Included, CoLOS® Free 6.0 for design of simple messages



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Thermal Transfer Overprinting

Designed for the most demanding, high-volume applications, the SmartDate X65 delivers high resolution coding on flexible film packaging as fast as 455 packs per minute. Its fully intuitive 10.1" user interface makes daily operations easy and straightforward and provides the most valuable information you need to optimize and enhance your Overall Equipment Effectiveness (OEE) through MI Sigma reporting.

Enhanced SmartDate experience

- Optimized tracking of OEE data**
 Coder can be configured to monitor your 5 most important production metrics directly from your home screen e.g., pack rate, throughput, availability.
- Tutorials to facilitate daily activities**
 Animated help and 'how to' tutorials provide guidance on setup and daily maintenance procedures to ensure consistent print quality.
- Profile configurator for error-free operation**
 Configurable profile password function (operator, supervisor and engineer) manages access and limits human-related errors.



A 10.1" color user interface offers a fully intuitive user experience to provide simple operation in just a few clicks.

High-performance printing

- Supports your marketing campaigns**
 Promotional coding function* allows for unique coding on each pack.
- Eliminates faulty codes and protects your brand**
 In addition to its dead-dot detection system, the easy-to-install SmartDate Detect-Plus system* checks and confirms the presence, position and quality of the code on every pack and directly on the user 10.1" interface.
- Achieves superior printing speeds**
 Print speed can be set from 10 mm to 1800 mm per second allowing for 455 printed packs per minute at 300 dpi.



Ideal for multiple line coding including text, logos and barcodes.

Unmatched and cost-effective reliability

- Zero preventive maintenance**
 Robust direct ribbon drive and cassette design contain no wear parts.
- All-in-one printer for enhanced flexibility**
 Both intermittent and continuous configurations with a 53 mm printhead are available on the same coder.
- Up to 15%** more codes per roll**
 Large choice of ribbon rolls based on your packaging type and needs.



Three ribbon types available: SmartDate Xtra, SmartDate Xceed and SmartDate Xpert.

*Optional **Compared to other competitive models.

SmartDate X65 - Specifications

Print features

- Print speed:
 - Intermittent: up to 700 mm/s
 - Continuous: 10 to 1200 mm/s (combined)
 - Continuous: 10 to 1800 mm/s (shuttled)
- Print area:
 - Intermittent: 53 mm x 75 mm
 - Continuous: 53 mm x 750 mm (combined/application dependent)
 - Continuous: 53 mm x 100 mm (shuttled)
- Print features:
 - Automatic printhead setup
 - Detect: Dead-dot detection
 - Quick change print head
 - Intermittent and continuous printer
 - Easily change from left to right hand with no additional parts
 - Gap between prints: 0.5 mm
 - Automatic shift codes and serial numbers
 - Multiple variable user input fields with alphanumeric texts
 - High-pack-rate mode
- Ribbon-saving mode: Radial ribbon save, Interlaced mode, Radial mode 1, Radial mode 2, Radial interlaced, Whitespace, Radial whitespace, Step advance
- Print specifications: Full TrueType font support, including non-Roman characters and symbols. Printing of real-time clock, dates and auto-updating best before dates, barcodes: ITF, Code 39, Code 128, EAN 128, EAN 8, EAN 13, UPC A, UPC E, RSS linear, PDF 417, ID Matrix, QR and Composite RSS barcodes support

Operations

- User interface: 10.1" full colour 1024 x 600 touch screen for message selection, variable data entry, diagnostics and system setup
- MI Sigma Functionality
- Advanced health and availability monitoring
- Configurable user home screen
- Animated help tutorials: ribbon fitting, printhead cleaning, printhead replacing
- Simple print adjust and image adjust
- Master/slave function to allow master control for up to 7 slaves
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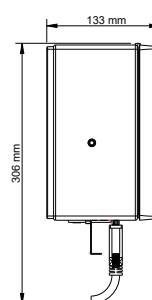
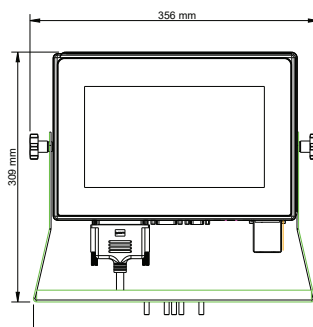
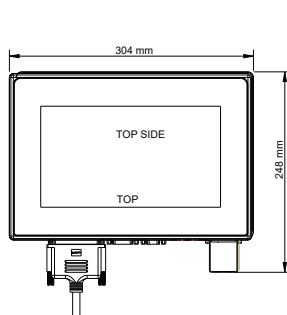
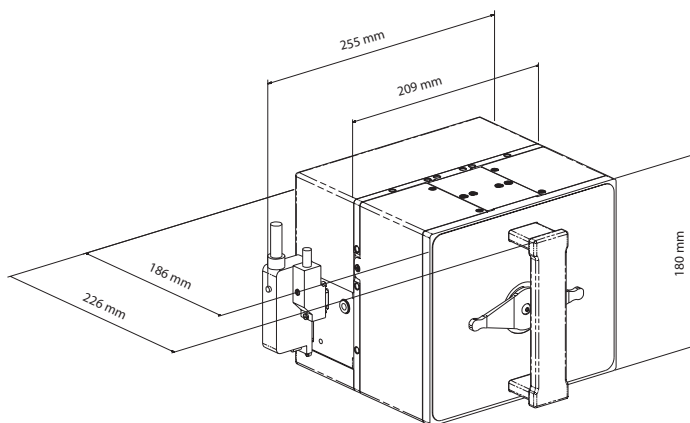
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- Operating temperature range: 0 to 40°C
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Optional accessories

- Detect-Plus: code detection
- Promotional coding
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