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a **DOVER** company



Print and apply labeling systems

2200 Series



Innovation award-winning technology to increase your line efficiency

The 2200 Series builds on a proven concept, with thousands of units installed in demanding 24/7 environments, providing reliability, efficiency, and ease of use to minimize coding errors. Designed to be over 95% recyclable, the 2200 Series takes print and apply to the next stage of evolution, giving you a wide range of interchangeable applicators, optimized operational intervention and unparalleled application rates. The **Touch-S®** intelligent applicator utilizes Markem-Imaje market-leading innovation to combine outstanding performance with the highest levels of operational safety.

Product features

Higher operational effectiveness

- Safe and easy to use, competent operation can be achieved with less than 5 minutes of training.
- Use the simple three key graphical operator panel or add the color touch screen Production Interface to ensure that only the most relevant operational data is presented on the screen.
- Longer media lengths for extended operation and synchronized media reloading. Replenish label and ribbon rolls in less than 40 seconds.

Unmatched reliability

- Compliant ANSI grade A/B codes even at the highest application speed. An integrated barcode scanner ensures that 100% of cases leave the factory with a readable barcode.
- Simple routine maintenance regimes with the ability to exchange wear without the need for complex calibration or a tool of any type.
- Wide range of applicators best suited for each application minimizing the need for line changes and expensive modifications.

High-performance printing

- Extremely fast and reliable, **Touch-S®** is built with artificial intelligence to prevent labeling errors, protect products, and increase uptime.
- With the in-built auto-change/tandem functionality, should a 2200 Series go off-line, a second labeler will immediately take over the task to eliminate downtime.
- Constant and consistent label management, automatic label tension and integrated label control, removing any need for operational adjustment or calibration.

2200 Series Specifications

Print Features

Print methods: Thermal transfer or direct thermal (selectable on the same print unit)
Built-in real-time clock
10 individual programmable counters

Print engines:

2220: 56 mm, 200 dpi (8 dots per mm)
2230: 54 mm, 300 dpi (12 dots per mm)
2420: 104 mm, 200 dpi (8 dots per mm)
2430: 108 mm, 300 dpi (12 dots per mm)
2620: 168 mm, 200 dpi (8 dots per mm)
2630: 162 mm, 300 dpi (12 dots per mm)

Maximum print speed: 300 mm/s

Fonts: 16 smooth scalable fonts available
TrueType font downloadable
Support for Unicode fonts

Graphic features: BMP, WMF, PCX, PNG, ICO, GIF, TIFF and JPEG.
GS1 compliant barcodes as well as all major linear and 2D barcodes supported.

Media Specifications

Media types: Die-cut self-adhesive labels
Label stock outside wound as standard

Maximum label width: 178 mm
Maximum label roll: 350 mm (optional 400mm)

Inner core: 76 mm
Inside wound thermal transfer ribbon

Ink ribbon length: 660 m

Ribbon core: 25 mm
Best results with **Ultraply** consumables range

Operating Characteristics

Simple on-board user interface:

Graphic display and machine status in local languages
Start, stop, pause or print
Local label selection
Machine back-up/restore or cloning

Communication interface:

2 x In via Opto
5 x Out via relay (24 VDC)
High-speed RS-232, 300 – 115 200 bps
Ethernet 10/100 (R Telnet, FTP, web server)
USB support for back-up/restore and label upload
Compatible with Weihenstephan standard
Dual Language Support (DLS):

- Markem-Imaje LabelPoint
- ZPL emulation**

Environment:

Temperature range: 0°C to 45°C
Humidity: 20% to 85% non-condensing
Power requirements: 110/240 VAC; 50/60 Hz
Power consumption in idle mode 35 watts
Power consumption 135 watts at maximum throughput
Peak power consumption 300 watts
Air supply: 6 bars, dry and clean
System including stand >95% recyclable

Applicators Range

- Thanks to its unique SoftTouch technology, the **“Touch-S”** applicator offers full movement control and application monitoring
 - Blow, Enhanced Wipe or Flex SE for top, side and front applications
 - High-speed front apply
 - Corner Wrap for 2 adjacent side applications
- For more information on case and pallet solutions please visit www.markem-imaje.com

Options and Accessories

High usage long-life printheads
Inside wound label kit
800 m label unwind (factory upgrade)
Expanded memory SD card slot
Scalable and international fonts
Three-color-status beacon
Product triggers
Barcode readers
Advanced Trigger Sensor (ATS)
Range of industrial stands and mounting
Enhanced color touchscreen user interface:
2200 Production Interface*

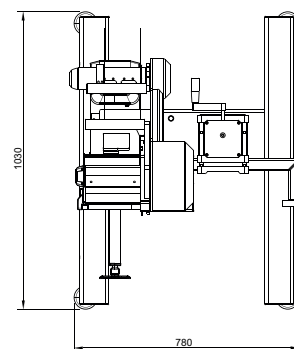
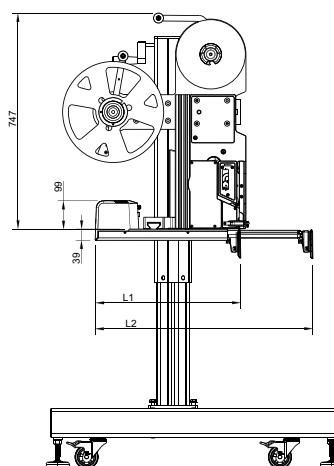
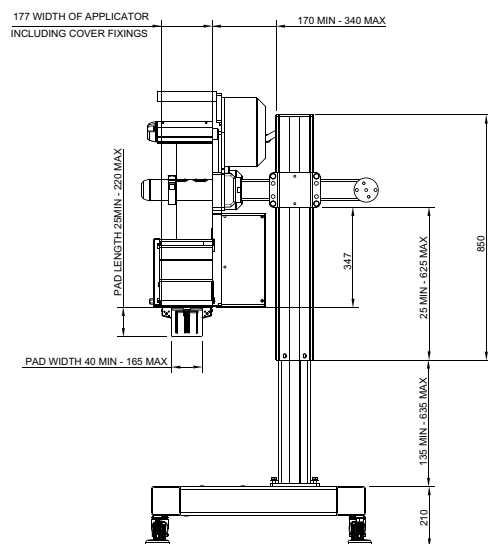
Services and Support

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

CoLOS® Software & Packaging Intelligence Solutions:
Modular solutions for message creation/code management and control, integration with ERPs/MES/WMS.

CoLOS® Base, **CoLOS®** Line, **CoLOS®** Line Terminal
CoLOS® Factory and **CoLOS®** Pallet



*See separate datasheet **Not all commands supported. ZPL is a trademark of Zebra Technologies Corporation



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2200 Pallet

print and apply systems ■ ■ ■



Markem-Imaje's commitment: to deliver best in class efficiency.

The new 2200 Pallet builds on a proven concept providing reliability, efficiency and ease of use in demanding 24/7 environments. The 2200 Pallet takes print and apply to the next stage of evolution, giving you optimized operational intervention and unparalleled reliability.

Unmatched reliability

- Unique compact design and robust swing arm applicator makes it the perfect long-term investment.
- High performance non-stick label pad and contact parts for easy to clean, uncomplicated operation.

Operation optimization

- Simple media path allows operators to reload label and ribbon rolls in less than 40 seconds.
- Synchronized label and ribbon change.
- «No tools» concept allows printhead and roller exchanging in less than 60 seconds.
- Automatic shut-off feature for enhanced operator safety and quick restart.

Eco-initiatives

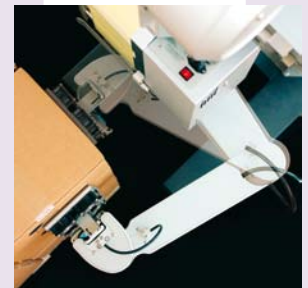
- Designed to be over 85% recyclable.
- Power consumption below 60 watts at maximum throughput.

High-performance printing

- 1 or 2-side pallet labeling at speeds up to 120 pallets per hour.
- Maximized productivity with proven, accurate adjacent side pallet labeling.
- Dual RISC processors, supported by a dedicated ultra fast co-processor, deliver efficient performance.
- Markem-Imaje labels and ribbons guarantee print quality and long printhead life.

Traceability

- Compliant ANSI grade A/B codes even at the highest application speed.
- Optional barcode scanner ensures that 100% of pallets leave the factory with a readable barcode.
- CoLOS software solutions ensure product data integrity, central data management and easy connection to existing enterprise database.
- Each unique pallet label can be identified and tracked at every step of its journey, from when it leaves the factory to its final destination.



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2200 Pallet specifications ■ ■ ■

Print features ■ ■ ■

- Print methods: Thermal transfer or direct thermal
- Built-in real-time clock
- 10 individual programmable counters
- Print engines:
 - 2620: 168 mm, 200 dpi (8 dots per mm)
 - 2630: 162 mm, 300 dpi (12 dots per mm)
- Maximum print speed: 300 mm/s
- Swing arm for one and two adjacent side applications
- Label application time cycle:
 - Single linear movement: 7 s
 - Single side movement: 10 s
 - Two adjacent side movement: 20 s
- Fonts: 16 smooth scalable fonts available
- TrueType font downloadable
- Support for Unicode fonts
- Graphic features: BMP, WMF, PCX, PNG, ICO, GIF, TIFF, JPEG
- All major linear barcodes and 2D barcodes supported

Operations ■ ■ ■

- User interface with graphic display and machine status in 26 languages
- Control panel: start, pause, print
- Built-in safety feature: Automatic air shut-off when applicator hits obstacle
- Remote and machine emergency stop buttons
- Communication interface:
 - 2 x In via Opto, 5 x Out via relay, 24 VDC
 - High speed RS-232, 300 – 115 200 bps
 - Ethernet 10/100 (LPD, R Telnet, FTP, web server)
- Programmable re-apply sequence or fault after barcode failed read

Other characteristics ■ ■ ■

- Left- and right-applicator versions (front-side, backside)
- Humidity: 20 to 85% non-condensing
- Power requirements: 110/240 VAC; 50/60 Hz
- Air supply: 6 bars, dry and clean

Options and accessories ■ ■ ■

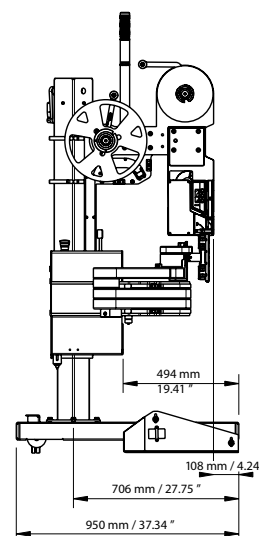
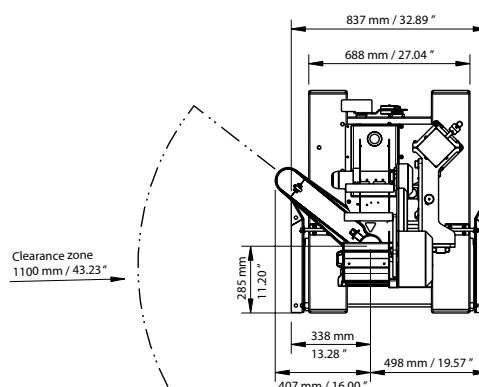
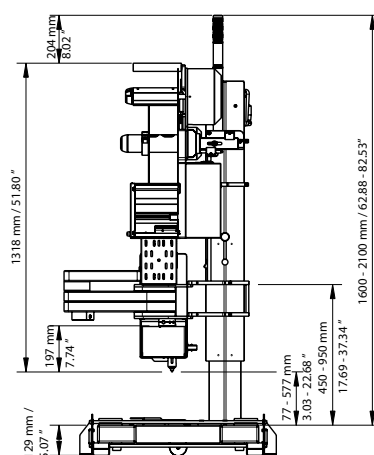
- Inside wound label kit
- Expanded memory SD card slot
- Scalable and international fonts
- Three-color-status beacon
- Barcode reader
- Floor stand and docking station

Media specifications ■ ■ ■

- Media types: Die-cut self-adhesive labels
- Standard label size: DIN A5 148 x 210 mm
- Label stock outside wound as standard
- Maximum label width: 178 mm
- Maximum label roll: 350 mm, approximately 2,550 labels per roll
- Inner core: 76 mm
- Inside wound thermal transfer ribbon
- Ink ribbon length: 560 m
- Ribbon core: 25 mm

Software ■ ■ ■

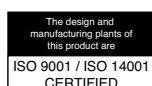
- Compatible with CoLOS Create Professional and CoLOS Enterprise
- CoLOS Traceability software
- Compatible with Weihenstephan standard



Dimensions refer to right-handed model



To learn more, scan the code with your smartphone
or visit www.markem-imaje.com



We reserve the right to amend the design and/or specifications of our products without notice.

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