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Software solutions
- Pyrotec PackLink software is a fully-integrated customised product tracking system that increases line visibility while improving efficiency by tracking waste, labour and resources, and limiting downtime by enabling critical decisions to be made on the fly.
- Packaged coding software: CoLOS Create, CoLOS Create Professional and CoLOS Enterprise.
- Traceability software: CoLOS Insite, CoLOS Pallet Track, CoLOS Coding Integrity and CoLOS Line Traceability.

Labelling
Primary (product labelling)
- Secondary (case/box labelling)
- Tertiary (pallet labelling)
Pyrotec PackMark has built its market knowledge and consultative approach by implementing a wide array of well-targeted coding and labelling solutions for numerous industries. Pyrotec PackMark can adapt its offer to your specific needs. Pyrotec PackMark delivers the right insights, technologies and support to help your packaging operations overcome increasing competitive pressure, more complex operations and demanding retailer and regulatory mandates.

**Food**
MARKETS: Dairy products, fresh fruits and vegetables, fresh meat and poultry products, dehydrated foods, biscuits and cakes, chocolate and sugar confectionery.
CODES: Best before dates, batch numbers, ingredients, logos, barcodes, 2D codes and QR codes.
SUBSTRATES: Flexible packaging, rigid plastic, paper-based container and liquid carton.
MARKET NEEDS: High-quality marking, robustness for demanding environments, compliance with legal requirements, reduction of packaging inventory and printing of promotional codes.

**Beverage**
MARKETS: Still soft drinks, fruit juice and fruit drinks, wine and spirits, mineral water, liquid milk, beer and ciders.
CODES: Best before dates and batch numbers.
SUBSTRATES: Rigid plastic, metal, glass and liquid carton.
MARKET NEEDS: High-speed printing, robustness for demanding environments and printing of promotional codes.
Cosmetics, toiletries and pharmaceuticals
CODES: Best before dates, batch numbers, logos, barcodes, 2D codes and serialisation.
SUBSTRATES: Flexible packaging, rigid plastic, paper-based container and glass.
MARKET NEEDS: Compliance with legal requirements, brand protection, high-quality marking and product decoration.

Electrical and electronics
MARKETS: Electrical and electronic components, light bulbs and tubes, radio, television and other brown goods, white goods, CD and DVD disks, smart cards and phone cards.
CODES: Logos and requirement specifications.
SUBSTRATES: Plastic coating, ceramics, alloy coated or painted metal, rigid plastic, tin-plated, printed circuit board laminate material and chips.
MARKET NEEDS: High-quality marking, compliance with legal requirements and brand protection.

Cables, tubes and profiles
CODES: Logos, requirement specifications and specific coding wire and cable options.
SUBSTRATES: Wide range of polymers (PE, PP, PA, PUR, halogen-free, etc).
MARKET NEEDS: High-quality printing, robustness for demanding environments, high-speed printing and reduction of packaging inventory.
Small character inkjet

BENEFITS: 9000 Series are full-featured printers designed for demanding manufacturing environments, general purpose as well as very specific applications like high contrast and high-performance marking.

CONSUMABLES: Designed to print on all types of substrates from standard to specific applications (food grade, sterilisation, UV cure, egg coding, etc.); alcohol-based, water-based, ketone-free and MEK-free inks available; wide variety of colours.

SUBSTRATES: Plastics, glass, metal, cardboard and directly onto food.

MARKETS: Food, beverage, cosmetics, toiletries, electrical, electronics, cables, tubes and profiles.

Thermal transfer

BENEFITS: SmartDate Series delivers high-quality printing on flexible packaging films, foils and labels for continuous and intermittent operations, at the fastest print and acceleration/deceleration speeds. It includes multiple ribbon saving features.

CONSUMABLES: A wide range of approved high-quality thermal transfer ribbons for both flat and near edge printheads.

SUBSTRATES: Flexible packaging like flow wrappers, bags, tray seals, pouches, sachets, vacuum packs or labels.

MARKETS: Food and mechanical engineering.

Laser

BENEFITS: 7000 Series coders are well-suited for high-speed printing in large coding areas and tough production environments, especially those requiring multi-head scribing. They offer impeccable high contrast code and are capable of covering coding and scoring applications simultaneously.

CONSUMABLES: Dust filters for fume extractors.

SUBSTRATES: Plastics, glass, painted metal and cardboard.

MARKETS: Food, beverage, cosmetics, toiletries and pharmaceuticals.
Large character valvejet

BENEFITS: 4500 and 4700 incorporates innovative simplicity and flexibility. Characterised by their compact size, 4500 Plus is perfect for one side case coding while 4700 is ideal for multi-side case coding up to 3 shifts.

CONSUMABLES: Available in alcohol, ethyl acetate and water based in many colours.

SUBSTRATES: Corrugated cases.

Large character high-resolution piezo

BENEFITS: Solvent-free and environmentally friendly Touch Dry® Hot Melt inks of 5200, 5400 and 5800 coders print codes and logos. Codes never bleed or fade, dry on contact and are 100% readable.

CONSUMABLES: Touch Dry® technology is solid at room temperature while liquid inks are available in alcohol, ethyl acetate and water based in a large range of colours.

SUBSTRATES: Corrugate cases, trays and wrapping films.

Print and apply labelling

BENEFITS: 2200 Series builds on a proven concept that provides reliability, efficiency and ease of use. It gives you a wide range of interchangeable applicators (Tamp, Wipe, Blow, Tamp Blow and Corner Wrap), optimised operational intervention and an unparalleled application rate.

CONSUMABLES: A wide range of approved high-quality thermal transfer ribbons for both flat and near edge printheads. Our labels and ribbons guarantee print quality and long printhead life.

Our combo box ensures line efficiency by reducing downtime.

SUBSTRATES: Corrugated cases and wrapping films for pallet.
The IP rating system provides a means of classifying the degrees of protection from dust, water and impact afforded by electrical equipment and enclosures. The system is recognised in most European countries and is set out in BS EN 60529; 1992 Degrees of protection provided by enclosures (IP code).

<table>
<thead>
<tr>
<th>FIRST NUMBER</th>
<th>Protection against solid objects</th>
<th>SECOND NUMBER</th>
<th>Protection against liquids</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP 0</td>
<td>TESTS</td>
<td>IP 0</td>
<td>TESTS</td>
</tr>
<tr>
<td></td>
<td>no protection.</td>
<td></td>
<td>no protection.</td>
</tr>
<tr>
<td>1</td>
<td>protected against solid objects</td>
<td>1</td>
<td>protected against vertically falling drops of water.</td>
</tr>
<tr>
<td></td>
<td>over 50mm. eg. accidental touch by hands.</td>
<td>1</td>
<td>protected against direct sprays of water up to 15° from the vertical.</td>
</tr>
<tr>
<td>2</td>
<td>protected against solid objects</td>
<td>2</td>
<td>protected against sprays to 60° from the vertical.</td>
</tr>
<tr>
<td></td>
<td>over 12mm. eg. fingers.</td>
<td>2</td>
<td>protected against water sprayed from all directions - limited ingress permitted.</td>
</tr>
<tr>
<td>3</td>
<td>protected against solid objects</td>
<td>3</td>
<td>protected against low pressure jets of water from all directions - limited ingress permitted.</td>
</tr>
<tr>
<td></td>
<td>over 2.5mm (tools + wires).</td>
<td>3</td>
<td>protected against strong jets of water, eg. for use on shipdecks - limited ingress permitted.</td>
</tr>
<tr>
<td>4</td>
<td>protected against solid objects</td>
<td>4</td>
<td>protected against the effects of temporary Immersion between 15cm and 1m. Duration of test 30 minutes.</td>
</tr>
<tr>
<td></td>
<td>over 1mm. ( tools + small wires).</td>
<td>4</td>
<td>protected against long periods of Immersion under pressure.</td>
</tr>
<tr>
<td>5</td>
<td>protected against dust - limited ingress (no harmful deposit).</td>
<td>5</td>
<td>protected against water sprayed from all directions - limited ingress permitted.</td>
</tr>
<tr>
<td>6</td>
<td>totally protected against dust.</td>
<td>6</td>
<td>protected against strong jets of water, eg. for use on shipdecks - limited ingress permitted.</td>
</tr>
<tr>
<td>7</td>
<td>protected against the effects of temporary Immersion between 15cm and 1m. Duration of test 30 minutes.</td>
<td>7</td>
<td>protected against long periods of Immersion under pressure.</td>
</tr>
<tr>
<td>8</td>
<td>protected against long periods of Immersion under pressure.</td>
<td>8</td>
<td>protected against long periods of Immersion under pressure.</td>
</tr>
</tbody>
</table>
Note: When an IP rating is included in the RS Catalogue, certain points should be taken into consideration as to its interpretation:

1. Although an enclosure has a high IP rating, the equipment being used in conjunction with it may reduce this (eg. through mounted components, accessories and methods of cable entry).

2. An IP rating may be quoted with regard to the maximum protection from the front of the actuator and by means of sealing around the mounting hole.

This rating may not apply to the rear of the component.

The following products are available from RS with IP ratings. Please refer to current RS Catalogue for full details:

- ABS sealed boxes
- Appliance connectors
- Cable glands
- Cam switch enclosures
- Camera housings
- Camsafe switch
- Diecast boxes
- DIN rail enclosures and mounting boxes
- DOL starters
- Elapsed time metres
- Electrically operated bolt
- Emergency lighting
- Emergency stop buttons
- Equipment cases
- Flexible conduit
- Floodlighting
- Flush mounting enclosures
- Fuseholders
- General purpose tungsten lighting
- General purpose wall mounting enclosure
- Guard switches
- GRP enclosures
- Hazardous area enclosures
- Heavy-duty equipment cases
- Impulse counters
- Industrial foot switch
- Industrial key switches
- Industrial latching switches
- Industrial lever switches
- Industrial microswitches
- Industrial push-buttons
- Industrial push-button stations
- Industrial start/stop switches
- Industrial switch enclosures
- Industrial wall mounting enclosures
- Inline RCD
- Intruder detectors
- Keypad switches
- Light sensitive switches
- Light switches
- Limit switches
- Local isolators
- Manual motor starters
- Moulded enclosures
- Panel mounting counters
- Panel mounting tachometers
- Panel switches
- Pliable conduit
- Polycarbonate wall boxes
- Polyester enclosures
- Programmable 7-day time switch
- Proximity switches
- Rear mounting enclosures
- Rechargeable handlamp
- Rotary cam switches
- Rotating mirror beacons
- Sealed limit switches
- Security lighting
- Single path photo relay systems
- Single phase soft starters
- Stainless steel wall boxes
- Sub miniature limit switches
- Surface mounting enclosures
- Switch fuses
- Time switches
- Universal guard switch
- Wall mounting enclosures and housings
- Wall mounting RCCB/MB enclosures
- Wall mounting RCCB/MB socket outlet
- Weatherproof thermostats

The information provided in RS technical literature is believed to be accurate and reliable, however, RS Components assumes no responsibility for inaccuracies or omissions, or for the use of this information. All use of such information shall be entirely at the user's own risk. No responsibility is assumed by RS Components for any infringements of patent or other rights of third parties, which may result from its use. Specifications shown in RS Components' technical literature are subject to change without notice.
02 PRIMARY CODING
THERMAL INKJET CODER ANSER U2 HANDHELD PRINTER

The world’s most compact mobile printer. It’s ultraportable, lightweight and easy to operate.

Main benefits

- **Ultra Lightweight** - The world’s lightest mobile printer, weighing only 1kg (2.21Lb).
- **Full Colour Large LCD Display** - 2.8-inch colour LCD with LED backlit screen.
- **All IN ONE BOX** - One tiny box with all the accessories you will ever need: U2 mobile, remote keypad, two high-capacity rechargeable batteries, battery charger, SD card & SD card reader.
- **SD Card Slot Design** - Easy software upgrade and date backup 600 dpi (For U2 HD Only).
- **Ultraportable** - Capable of printing anywhere, at any angle, without ink leakage.
- **Plug-n-Print** - Ink cartridge design with no maintenance and downtime costs.
- **Long-Lasting Battery** - 7 hours of continuous printing with more than 200,000 characters.
- **600 dpi (For U2 HD Only)** - 2 X the resolution for printing crisp & precise HD barcodes. Now available on both U2 & U2-mobile.
- **Remote Keypad** - Pocket-size remote keypad with user-friendly operation.
- **More Ink Selections** - Now you can print onto a variety of substrates using ANSER’s new Inkfinity ink family.

[View Online]
Print features

- Display: 2.8” full colour LCD with LED-backlit
- LED Indicators: 5 indicators - Alarm, Ink low, Print, Run, Remote on/off
- Available Languages: English, Japanese, French, German, Spanish, Portuguese, Russian, Korean, Italian, Turkish, Chinese (Traditional & Simplified)
- Operation Menu: Digital Menu Selection (DMS) for easy operation
- Input Device: Pocket-size IR remote keypad
- Plug-n-Print Design: Hewlett-Packard TJ 2.5 printing technology
- Printable Images: Alphanumeric, logo, date/time, expiry date shift code, counter, lot-box code and barcode
- Printable Lines & Heights: 1, 2, 3, 4 lines. Total line height is limited to 12.7mm (0.5”) Heights: 2.7mm, 3.6mm, 5.5mm, 8mm, 10mm, 12.7mm (0.11”, 0.14”, 0.22”, 0.31”, 0.39”, 0.5”)
- One inch option available
- Print Speed: 57 metres (148 feet)/minute at 400 dpi horizontal resolution
- Message Storage Capacity: Store up to 999 messages with SD card
- Dimension (L/W/H): 212 x 135 x 120 (mm) / 8.3 x 5.3 x 4.7 (inch)
- Weight: 1Kg (2.20Lb) – excludes cartridge and battery

Anser U2 mobile handheld printer
Long-lasting battery

- Rated Capacity: 3,700 mAh
- Standard Voltage: 11.1V
- Input/Output Voltage: 12.6V
- Charging Voltage: 12.6V
- Charging Hours: 2.5 hours
- Charging Temperature Range:
  0°C – 45°C (32°F – 113°F)
- Discharging Temperature Range:
  -10°C – 45°C (14°F – 113°F)
- Dimension (L/W/H):
  65 x 51 x 37 (mm) / 2.5 x 2 x 1.5 (inch)
- Weight: 165g (0.36Lb)
- Cycle Life: More than 300 cycles
- Continuous Printing Hours: 7 hours
- Standby Time: 9 hours

Other characteristics

- Ink Solutions: A wide range of ink selections for printing on porous, semi-porous and non-porous substrates.
- Environment: Operating temperatures range 5°C – 40°C (41°F – 104°F) both flat and near edge printheads. Our labels and ribbons guarantee print quality and long printhead life. Our combo box ensures line efficiency by reducing downtime.
Main benefits

- Compact Size with 3.5-inch LCD Screen - Feature a larger screen to provide a better user experience, while maintaining its compact body size for hassle-free installation and easy integration.
- Zero Maintenance - The ink cartridge design eliminates unnecessary printhead services; it is truly zero maintenance and has drastically decreased your total cost of ownership.
- Pocket-sized Remote Keypad - Handy and compact remote keypad with comprehensible design for easy operation.
- Friendly UI & Intelligent Dashboard - Simple yet elegant user interface for easy operation. The intelligent dashboard design monitors the printer status and provides real-time system notifications.
- Dust Cover Design - Help to protect cartridge from getting damaged in dusty environment.
- USB 2.0 Compatible - Multiple functions including software update, data backup and stand-alone USB keyboard operation.
- Anti-Shock Mechanism Design - Anti-shock mechanism design to eliminate the unexpected damage to your printer with ANSER’s unique protective design.
- Automatic Ink Identification - Automatically identifies and selects the proper firing parameter to ensure the best print quality.
- High Readable Rate Barcodes - Capable of printing crisp 1D & 2D barcodes including EAN 128, Code 128, Code 39, Data Matrix, QR Code, and etc.
Print features

- Display: 3.5" Colour LCD with LED backlight
- User Interface: Simple and easy-to-use operating system
- Input Device: Pocket-sized IR remote keypad
- Available Languages: English, Japanese, French, German, Spanish, Portuguese, Russian, Korean, Italian, Turkish, Hungarian, Slovak, Czech, Swedish, Romanian, Serbian, Bulgarian, Chinese (Traditional & Simplified)
- LED Indicators: Alarm, ink low, print, run, remote on/off
- Print Engine: Hewlett-Packard thermal inkjet technology
- Print Resolution & Print Speed: 600 x 300 dpi (76.2 m/min) Print quality is dependent on resolution and speed
- Print Distance Recommended: 6mm
- Print Height: Up to 4 lines and 12.7mm (0.5”). Selectable font size from 2.7mm, 3.6mm, 5.5mm, 8mm, 10mm, 12.7mm
- Print Capability: Alphanumeric, logos, date/time, shift code, counter, lot box code
- Electrical Requirements: AC 100V~240V, 50/60Hz
- Weight: 0.49kg (1.08 lbs) - Cartridge and brackets not included
- Dimensions: 114 (L) x 76 (W) x 60 (H) mm
- Mounting Orientation: Horizontal or downside
- Message Storage Capacity: Store up to 999 messages
- Operating Temperature: 5°C – 40°C (41°F – 104°F)
- Data Interface: RS485 & USB
THERMAL INKJET CODER ANSER U2 PRO-S INKJET

Small yet powerful.
The world’s first solvent compatible cartridge specially designed for primary package coding applications.

Main benefits
- Comprehensive solvent ink portfolio
- Wide range of substrates coverage
- UV ink solution for critical substrates
Print features

• Display 3.5": Colour LCD with LED backlight
• User Interface: Simple and easy-to-use operating system
• Input Device: Pocket-sized IR remote keypad
• Available Languages: English, Japanese, French, German, Spanish, Portuguese, Russian, Korean, Italian, Turkish, Hungarian, Slovak, Czech, Swedish, Romanian, Polish, Serbian, Bulgarian, Chinese (Traditional & Simplified)
• LED Indicators: Alarm, Ink Low, Print, Run, Remote on/off
• Print Engine: Hewlett-Packard Thermal Ink Jet Technology
• Print Resolution & Print Speed: 600 x 300 dpi (76.2 m/min) Print quality is dependent on resolution and speed
• Throw Distance: Recommended 6mm from nozzle to surface
• Print Height: Up to 4 lines and 12.7mm (0.5”). Selectable font size from 2.7mm, 3.6mm, 5.5mm, 8mm, 10mm, 12.7mm
• Print Capability: Alphanumeric, logos, date/time, shift code, counter, lot box code
• Power: AC 100V~240V, 50/60Hz
• Weight: 0.49 kg (1.08 lbs) - Cartridge and brackets not included
• Dimensions: 114 (L) x 76 (W) x 60 (H) mm
• Mounting Orientation: Horizontal or downside
• Message Storage Capacity: Store up to 999 messages
• Operating Temperature: 5°C – 40°C (41°F – 104°F)
• Data Interface: RS-485 & USA

U2 ProS with S2 ink
- Bottled Water | Pyrotec PackMark, South Africa
Optional Accessories

- Encoder: Provide high print quality on unstable conveyor
- Photocell: Provide more reliable and precise sensing parameter
- Alarm Kit: Alert users in the event of an incident
- UV Curing Kit: Provide stable and reliable curing performance for SUV series ink
THERMAL INKJET CODER 1050

The Markem-Imaje 1050 machine, coupled with its flexible service packages, allows optimal and transparent management of marking operations across the machine's life cycle. Our selection of services provided by our global repair centres combined with 700 on-site technical experts secures your investment at the right price.

Main benefits
• Fast and easy printing on primary and secondary packages
• High-resolution codes printed at high speeds
• Suitable for dusty, humid and corrosive environments
Print features

- Static text, user inserts, date/time stamps, shift codes, counters, bitmaps, confidential bitmaps and variable data.
- Windows True Type fonts

Markem-Imaje 1050 Thermal Inkjet Printer
SMALL CHARACTER INKJET 9018

Engineered to bring you the innovation you deserve with the simplicity you require, the Markem-Imaje 9018 is smart, easy to run and always ready to print.

Thanks to its innovative, all-inclusive M6’ ink circuit, expect two years of non-stop production. Easy to change, the M6’ can be clicked in and clicked out in less than 6 minutes with no specialised tools required. The new innovative cartridge system and associated ink offer (MEK-free and permanent ink) makes set-up automatic and clean, optimising your operators’ time and your overall production uptime.

With its straightforward design, the 9018 is ready to print within minutes of purchase, even in the harshest environments.

Main benefits
• Up to 3 lines of print
• Print speed up to 3 m/s
• Creation of logos directly on the operator/machine interface
• Jet Speed Control guarantees marking quality
• Automatic selection of fonts, depending on print speed and printhead/object distance
Print features
• Mono-jet printhead
• G head (printing resolution: 71dpi)
• Up to 3 lines of print
• Print speed: up to 3m/s
• Font height: from 5 to 24 dots
• Character height: from 1.8 to 8.7mm
• Wide choice of characters (Latin, Arabic, Cyrillic, Greek, Japanese, Chinese, Hebrew, Korean etc.)

Options
• RS-232 connectivity
• Printhead pressurisation kit (plant air required)
• Encoder and alarm connectivity
• 3 metre umbilical
• Dust environment filter kit
SMALL CHARACTER INKJET 9029

Between manufacturing and selling your products, you have more important things to worry about than ensuring the quality of your code. Engineered to bring you the innovation you deserve with the simplicity you require, the Markem-Imaje 9029 will facilitate daily operations and save you time!

Easy to set up

• Easy to install
• Move it and install it anywhere according to your needs, thanks to its robust IP55 fully stainless steel design
• Easy to design messages
• Quickly create or upload your codes via the newly designed user interface and USB connection
• Easy to run
• Intuitive online guide to manage your coder daily on your own more efficiently

9029 | New 4 line inkjet printer

Looking for safe & easy inkjet solution?
Smart to operate

- The M6': A smart all-in-one ink circuit that runs for 6000 hours*. Optimise your time and change your M6' in less than 6 minutes and on your own. No extra maintenance needed.
- Reduced Total Cost of Ownership. Reduce your additive consumption by 50%** thanks to a latest generation hydraulic system.
- Smart consumable. No set-up required. With its innovative cartridge system design, you’ll experience advanced consumable management.
- Smart in use. No import or export issues. Its standard priced MEK-free ink facilitates supply, compliance and safety related issues.

Print features

- Mono-jet printhead
- G head (printing resolution: 71dpi)
- Up to 4 lines of print
- Print speed: up to 4.4m/s
- Font height from 5 to 24 dots
- Character height from 1.8 to 8.7mm
- Wide choice of characters (Latin, Arabic, Cyrillic, Greek, Japanese, Chinese, Hebrew, Korean)

Options

- One and two dimensional barcodes (Datamatrix)
- Ethernet connectivity
- Printhead pressurisation kit (plant air required)
- Autonomous pressurisation kit (no plant air required)
- 3 metre umbilical
SMALL CHARACTER INKJET 9040, 9040 S AND 9040 IP65

The 9040 is designed to meet customers’ most specific requirements. It offers optimum versatility with a wide choice of inks (from general purpose to a very specific one) and a wide choice of options making integration onto most production lines efficient: mono- or twin-jet, single or twin-head systems and three printing resolutions (71, 115 and 178 dpi). This printer is ideally positioned for beverage, dairy and industrial applications.

Main benefits
• Up to 8-line printing for best before dates, logos, alphanumeric text, 1D and 2D barcodes
• High-speed multiline printing up to 5.5 m/s
• Font heights from five dots to two 24-dot lines
• Character height from 0.7 to 18.2 mm
• Easy change of the consumables without stopping marking operations
• Easy and quick installation of the cabinet on the floor for user-friendly operations
• IP65 cabinet available
Markem-Imaje Australia Small Character Inkjet Printers: 9020, 9030 & 9040

**Print features**
- Mono or bi-jet printhead
- Single or dual printhead systems
- G head (printing resolution: 71 dpi)
- M head (printing resolution: 115 dpi)
- P head (printing resolution: 178 dpi)
- Up to 8 lines of text
- Print speed: up to 5.5 m/s
- Font sizes from five dots to two 24-dot lines
- Character height from 0.7 mm to 18.2 mm
- One and two-dimensional barcodes (Datamatrix)
- Wide selection of characters (Latin, Arabic, Cyrillic, Greek, Japanese, Chinese, Hebrew, Korean, etc.)

**Options**
- IP65 (requires plant air)
- High-speed (S version)
- Printhead pressurisation kit
- 5 or 8 metre flexible umbilical
- 90° bent umbilical
- 90° bent printhead
SMALL CHARACTER INKJET 9040 CONTRAST

The 9040 Contrast is designed for specific applications in automotive, aerospace, cable and extrusion industries. A wide choice of inks and colours are available, including pigmented inks for high contrast printing on dark surfaces. With two printing resolutions (71 and 115 dpi) and mono- or twin-jet version, this compact printer makes integration onto most production lines efficient.

Main benefits
- Up to 8 line printing for best before dates, logos, alphanumeric text, 1D and 2D barcodes
- High-speed multiline printing up to 5.5 m/s
- Font heights from 5 dots to two 24-dot lines
- Character height from 1.2 to 18.2 mm
- Easy and quick installation of the cabinet on the floor for user-friendly operations
- Ergonomic design with intuitive user interface featuring shortcuts and direct access to consumables
Print features
- Mono or bi-jet printhead.
- G head (printing resolution: 71 dpi)
- M head (printing resolution: 115 dpi)
- Up to 8 lines of text
- Print speed: up to 5.5 m/s
- Font sizes from 5 dots to two 24-dot lines
- Character height from 1.2 mm to 18.2 mm
- One and two-dimensional barcodes (Datamatrix)
- Wide selection of characters (Latin, Arabic, Cyrillic, Greek, Japanese, Chinese, Hebrew, Korean, etc.)

Options
- RS-422 connectivity
- Parallel interface
- Printhead pressurisation kit
- 90° bent umbilical
- 90° bent printhead
SMALL CHARACTER INKJET 9042 & 9042 IP65

The 9042 is designed specifically to meet the needs of the dairy industry with all of the benefits of the 9040.

Main benefits

• New design of 0.8-litre cartridge: sealed and foolproof
• Fast, safe changeovers of consumables in less than 30 seconds, with no spillage or need to stop printing
• Reinforced umbilicals provide longer life span and better printhead integration
• Up to 8 lines of print for best before dates, logos, alphanumeric text, 1D and 2D barcodes
• Automatic ink pressure adjustment (Jet Speed Control) guarantees print quality
• Choice of single or twin heads and umbilicals of 3, 5 or 8 metres, allows for integration onto most production lines
• Standard Ethernet connectivity
Print features

- Single or dual printhead systems
- G head (printing resolution: 71 dpi)
- Up to 4 lines of text per printhead
- Print speed: up to 5.5 m/s
- Font sizes from 5 dots to two 24-dot lines
- Character height from 1.8 mm to 8.7 mm
- One and two-dimensional barcodes (Datamatrix)
- Wide selection of characters (Latin, Arabic, Cyrillic, Greek, Japanese, Chinese, Hebrew, Korean, etc.)
- Message library (up to 2000 messages)

Options

- IP65 (requires plant air)
- Printhead pressurisation kit
- Reinforced 5 or 8-metre umbilicals for applications requiring printhead motion
- 90° bent umbilical
- Printhead with umbilical lateral output

Printhead

Cabinet
SMALL CHARACTER
INKJET 9405

More than just a standard printer. Quick multiline message set-up for optimal line effectiveness.

Main benefits

• Proven robustness, made in France. Constant quality coding, long maintenance intervals.
• Best ink options to help achieve your traceability and sustainability goals. High level of contrast and adhesion ink offer including a permanent black, a thermochromic and a MEK-free ink.
• Hygienic design - Full stainless steel design, with no retention zones, allows easy daily washdown (full IP55).
• Operate it efficiently - Intuitive colour touchscreen to help you manage your coder on your own.
• Intuitive guidance - Embedded software for independent, efficient coder management.
• Easy to configure - Quickly create or upload your codes via a USB connection, or via the user interface in your local language.
• More efficiency via its real-time consumable display - Accurate consumable display and efficient replacement without stopping production.
• Improve daily operations - The 9405’s smart design facilitates daily operations and ensures seamless integration.
• Easy and mistake proof operation - Clean and secure, our innovative cartridge system requires no set-up and eliminates consumable management errors.
• Fast, simple printhead cleaning - Open the printhead, wash it and close it in just two minutes.
Print features

- Mono-jet printhead
- G head (printing resolution: 71 dpi)
- Up to 5 lines of print
- Print speed: up to 4.6 m/s
- Font height from 5 to 32 dots for multiline messages
- Character height: from 1.5 to 11 mm
- Wide choice of 1D and 2D barcodes: EAN8/EAN13/UPCA/UPCE barcodes, code 39, Interleaved 2 of 5, Datamatrix and QR code
- Wide choice of characters: Latin, Arabic, Cyrillic, Hebrew, etc.

Options

- Printhead pressurisation kit
SMALL CHARACTER INKJET 9410

If improving the efficiency of your production process is one of your priorities, the new Markem-Imaje 9410 coder was engineered for you. Designed for full availability, the Markem-Imaje 9410 will match your line speed and secure each of your products with the correct code.

Main benefits

• 99.9% availability
• Up to 20% reduction in consumable use and energy consumption. Optimised waste-related expenses.
• Smart consumable system. No set-up required.
• Clean it with water and industrial detergent and make sure your hygiene standards are met (IP55).
• Promote your brand while achieving your traceability goals (text, logos and 2D barcodes, etc. available in 35 languages).
• Ink references with a high-level of adhesion, contrast and colour where needed as well as anti-counterfeiting solutions and environmentally friendly inks.
• Local language online guiding system will lead you through the steps to ensure your code is exactly what you want it to be.
• Easy access to maintenance and production history.
• Operator access and password management can be configured to your needs, offering more control.
• Create images and network printers with optional CoLOS® software.
Print features

- Mono-jet printhead
- G head (printing resolution: 71 dpi)
- Up to 5 lines of print
- Print speed: up to 4.6 m/s
- Font height from 5 to 32 dots for multiline messages
- Character height: from 1.5 to 11 mm
- Wide choice of 1D and 2D barcodes: EA N8/EA N13/UPCA/UPCE barcodes, code 39, Interleaved 2 of 5, Datamatrix and QR code
- Wide choice of characters (Latin, Arabic, Japanese, Cyrillic)

Options

- Printhead pressurisation kit
- Change of printhead pressurisation kit
- RS-232/422 connectivity, parallel interface, many I/O possibilities to enable remote operation
- Ultra-flexible 6-metre umbilical cable

![Printhead Diagram](image)

Minimum radius of curvature of the umbilical:

- Static: 100 (3.93")
- Dynamic: 150 (5.90")

![Cabinet Diagram](image)
SMALL CHARACTER
INKJET 9450

Improve the efficiency of your production process with the new Markem-Imaje 9450 coder, designed to support your overall equipment efficiency improvement. Designed for full availability, the Markem-Imaje 9450 will match your line speed and secure each of your products with the correct code.

Main benefits
• Maximise your production performance. 99.9% availability rate.
• Up to 20% reduction in consumable use and energy consumption (no need for plant air). Optimises your waste-related expenses.
• Wash it down with pressured water and industrial detergent and make sure your hygiene standards are met (IP56 standard, IP66 optional).
• Automatic cleaning system will ensure jet stability when restarting.
• Smart consumable system. No set-up required.
• Promotional coding and serialisation functions to support your marketing initiatives.
• Ink references with a high level of adhesion, contrast and colour where needed as well as anti-counterfeiting solutions and environmentally friendly inks.
• Easy running cost tracking via smart monitoring system.
• Code integrity is automatically checked via the new embedded Mark & Read vision system.
The NEW Continuous Ink Jet 9450 From Markem-Imaje

Print features

- Mono-jet printhead
- G-head (printing resolution: 71 dpi)
- M-head (printing resolution: 115 dpi)
- Up to 5 lines of print
- Print speed: up to 6.6 m/s
- Font height from 5 to 32 dots
- Character height: from 1.2 to 11.2 mm
- Wide choice of 1D and 2D barcodes: EAN 8/EAN 13/UPCA /UPCE barcodes, code 39, Interleaved 2 of 5, Datamatrix, QR code
- Wide choice of characters: Latin, Arabic, Cyrillic, Hebrew, Japanese, Chinese, Korean, etc.

Options

- Promotional coding and Mark and Read
- Ultra-flexible 6 metre umbilical cable
- IP66 protection (requires plant air)
- Ultra-rapid mode for high-speed printing
- Printhead pressurisation kit
- RS-232/422 connectivity, parallel interface, many I/O possibilities to enable remote operation
SMALL CHARACTER
INKJET 9450 E

Dedicated to the PIPE, CABLE, TUBE and PROFILE industries, the 9450 E combines a premium ink circuit with a new generation printhead design that will ensure the quality of your codes even on dark substrates with an optimised TCO.

Main benefits

• Up to 3 000 km of cable printing without printhead cleaning.
• 20% faster. Up to 1,000m/min for wire harnessing and optical fibre application.
• Precise, even on the smallest wires.
• Reduced TCO 20% ink savings without compromising on contrast.
• Smart consumable system, no set-up required.
• Precise when using the embedded metering function: 2mm tolerance.
• Additive consumption reduced to 3 ML/H at 20°C.
• Mistake proof user interface even when entering long messages.
• High-performance ink offer dedicated to extruded products providing contrasted durable print, even on difficult substrates like PE and in rough environmental conditions.
• Multiple colours: Black, white, orange, blue, green, red and yellow.
Markem-Imaje 9450E For Extrusion - Pipe, Cable, Tube, and Wire Marking

Print features
- Mono-jet printhead
- G head (printing resolution: 71dpi) or M head (printing resolution: 115dpi)
- Up to 5 lines of print
- Print speed: up to 1,000m/min
- Font height: from 5 to 32 dots
- Character height: from 1 to 11mm
- Wide choice of 1D and 2D barcodes: EAN8/EAN13/GS1-128/UPCA/UPCE barcodes, code 39, code 128, Interleaved 2 of 5, Datamatrix, QR code
- Wide choice of characters (Latin, Arabic, Cyrillic, Japanese, Chinese, Hebrew, Korean etc.)

Options
- Printhead pressurisation kit
- 9450 Ec for pigmented ink use
- Ultra-flexible 6 metre umbilical cable
- IP66 protection (requires plant air)
- Enhanced autonomy kit
- RS-232/422 connectivity, parallel interface, many I/O possibilities to enable remote operation
Printhead

Minimum radius of curvature of the umbilical:
- Static: 100 (3.93")
- Dynamic: 150 (5.90")

Cabinet

357 mm (14.05")
31 mm (1.22")
351 mm (13.82")
556 mm (21.85")
55 mm (2.17")
60 mm (2.36")
45 mm (1.77")
40 mm (1.57")
22.0 mm (0.87")
17.0 mm (0.67")
13.5 mm (0.53")
6.3 mm (0.25")
5.2 mm (0.20")
4.8 mm (0.19")
4.4 mm (0.17")
4.0 mm (0.16")
3.6 mm (0.14")
3.2 mm (0.13")
2.8 mm (0.11")
2.4 mm (0.09")
2.0 mm (0.08")
1.6 mm (0.06")
1.2 mm (0.05")
0.8 mm (0.03")
0.4 mm (0.02")
0.0 mm (0.00")
SMALL CHARACTER INKJET 9450 S

Optimise your TCO and operating expenses by 30%! Dedicated to the BEVERAGE industry, the 9450 S is more than just fast! The 9450 S combines state-of-the-art technology and expertise to ensure your product is coded right on its way out the door to the customer!

Main benefits

• 30% TCO reduction. Optimised additive and energy consumption.
• Smart consumable system reduces errors and requires no set-up.
• Wash it down as much as you need. Your 9450 S will be up and running regardless of intensive cleaning and humid environmental conditions.
• You’ll need ONE ink to code all your products! Metal cans, glass and PET bottles, pouches, liquid bricks etc. All coded with the same high-speed 9450 S printer and the same quick-drying, high-adhesion black ink.
• Two-line code on 120 000 containers or packs per hour, all securely coded!
• Promote your brand and carry out your marketing initiatives and campaigns by simply inserting a USB thumb drive.
• Additional high-performance contrast ink offer for dark glass substrates, including for returnable glass.
Print features

- Mono-jet printhead
- G head (printing resolution: 71dpi) or M head (printing resolution: 115dpi)
- Up to 5 lines of print
- Print speed: up to 1,000m/min (9450 ES only)
- Font height: from 5 to 32 dots
- Character height: from 1 to 11.2mm
- Wide choice of 1D and 2D barcodes: EAN8/EAN13/GS1-128/UPCA/UPCE barcodes, code 39, code 128, Interleaved 2 of 5, Datamatrix, QR code
- Wide choice of characters (Latin, Arabic, Cyrillic, Japanese, Chinese, Hebrew, Korean, etc.)

Options

- Promotional coding and Mark & Read
- 9450 Sc for pigmented ink use
- Ultra-flexible 6 metre umbilical cable
- IP66 protection (requires plant air)
- Ultrarapid mode for high-speed printing
- Enhanced autonomy kit
- Printhead pressurisation kit
- RS-232/422 connectivity, parallel interface, many I/O possibilities to enable remote operation
THERMAL TRANSFER

8018

The 8018 delivers a new level of efficiency and quality to developing coding markets. Companies looking to improve their corporate image and profitability can replace existing manual hot foil technology with real-time digital coding.

Main benefits

- Reduced ribbon waste with digital ribbon control enabling more prints per roll. Eliminates manual type changes, reducing human errors. Digital technology increases productivity, thus increasing profitability.
- Consistent high-quality digital technology delivering clean, crisp codes. No manual adjustment required from the first print to the last. Eliminate expensive product recalls, waste and incorrect codes.
- Change information and real-time controlling accuracy of production. Automation of printing date, time, best before, lot, batch codes, customer logo and other variable information. Designed for continuous or intermittent motion lines.
- Only available in selected Asia, Eastern European and Latin America markets.
Print features

- Print speed:
  - Intermittent: 100 mm/s, 225 mm/s.
  - Continuous: 20 mm/s to 450 mm/s.
- Print area: 32 mm x 40 mm.
- Resolution: 8 dots/mm with a 1 mm gap between prints.
- Printing of real-time clock (hours/minutes), dates, and auto-updating best before dates.
- User entered alphanumeric data (lot number, line ID, etc.).
- Multiple variable user input fields.
- Automatic shift code roll over.
- Automatic serial number.
- Logos, fixed barcodes, and other imported bitmap images (with optional CoLOS® Create Pro software).
- Full True Type font support.

Other characteristics

- Supplies: Thermal transfer ribbon available in a variety of grades and colours
- Maximum ribbon length: 550 m ribbon
- Minimum ribbon width: 22 mm
- Maximum ribbon width: 33 mm
SmartDate X30 is a 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.

**Main benefits**

- 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.
- 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.
- Dead-dot detection system to eliminate faulty codes.
- Choose the right ribbon type and get up to 15%* more codes per roll.
- Select the right accessories according to your need and budget.
- Simple, robust design, proven in packaging facilities worldwide, delivers consistent results you can rely on.
- Unrivalled 12-month printhead warranty or 40 km*.
- Print speed: 50 to 600 mm/s.
Print features

• Print speed:
  - Continuous: 50 to 600 mm/s
  - Intermittent: 100 to 250 mm/s

• Print area:
  - Intermittent: 32 mm x 40 mm
  - Continuous: 32 mm x 50 mm

• Printer features:
  - Automatic printhead set-up
  - Dead-dot detection
  - Average gap between prints: 0.5 mm
  - Automatic shift codes and serial numbers
  - Multiple variable user input fields with alphanumeric 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: Han Xin, QR/GS1, RSS

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
THERMAL TRANSFER
SMARTDATE
X40

The SmartDate X40 represents a transparent, advanced coding solution including long-term cost control, planet conscious design, greater uptime and increased performance on the line.

Main benefits
• New standard 1100 m ribbon reduces changeovers and improves cost per print
• Patented ribbon saving features help to minimise ribbon waste
• Best industry 12-month standard warranty
• Excellent availability ratio of up to 99.6% without assistance due to new standard 1100 m ribbon
• Print speeds up to 600 mm/s
• High-quality 300 dpi resolution
• Up to 50% reduction in power consumption
• Up to 20% less ribbon waste with new standard ribbon design

Markem-Imaje SmartDate X40 Video HQ
Print features

- Print speed:
  - Intermittent: up to 600 mm/s
  - Continuous: 10 to 600 mm/s
- Print area:
  - Intermittent: 53 mm or 32 mm x 75 mm
  - Continuous: 53 mm or 32 mm x 100 mm
- Print features:
  - Automatic printhead set-up
  - Dead-dot detection
  - Intermittent and continuous printer
  - Easily changes from left to right hand with no additional parts
  - Average gap between prints 0.5 mm
  - Automatic shift codes and serial numbers
  - Multiple variable user input fields with alphanumeric texts
- Ribbon saving mode:
  - Radial ribbon saving
  - Interlaced mode
  - Multi-print triggers
  - Negative ribbon advance
- Print specifications: Full True Type 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)

Other characteristics

- Supplies: Thermal transfer ribbon available in a variety of grades and colours
- Maximum ribbon length: up to 1100 m
- Minimum ribbon width: 20 mm
- Maximum ribbon width: 55 mm
THERMAL TRANSFER

SMARTDATE X60

Designed for the most demanding, high-volume applications, the SmartDate X60 delivers high-resolution thermal transfer printing at ultrafast speeds. Its long-life thermal printhead can print 300 dpi codes on flexible packaging film at more than 350 packs per minute.

Easy to install, simple to use, the user interface improves uptime by providing access to important printing information and allowing for code adjustments online. All of SmartDate X60’s tangible benefits are designed to maximise performance.

Main benefits

• High-speed printing up to 1000 mm/s in full 300 dpi resolution
• Excellent quality printing using full resin ribbons up to 600 mm/s and improved quality on difficult applications
• New standard 1100 m ribbon reduces changeovers and improves cost per print
• Image adjustment allowing the image to be adjusted on the user interface without the need of a laptop
• Dead-dot detection feature enabling the image to be adjusted avoiding failed dots
• Best industry 12-month standard warranty
• Digital Ribbon Save Print Mode to reduce ribbon consumption by 20%
• Power-saving features reducing power consumption by up to 50%
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 150 mm (combined)
  - Continuous: 53 mm x 100 mm (shuttled)
- **Print features:**
  - Automatic printhead set-up
  - Dead-dot detection and image adjustment
  - Combined intermittent and continuous printer
  - Easily changes from left to right hand with no additional parts
  - Average gap between prints 0.5 mm
  - Automatic shift codes and serial numbers
  - Multiple variable user input fields with alphanumeric texts
- **Ribbon saving mode:**
  - Radial ribbon saving
  - Digital ribbon save mode
  - Interlaced mode
  - Multi-print triggers
  - Negative ribbon advance
- **Print specifications:** Full True Type 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).

Other characteristics

- **Supplies:** Thermal transfer ribbon available in a variety of grades and colours, including ribbons approved for indirect food contact
- **Maximum ribbon length:** up to 1100 m
- **Minimum ribbon width:** 20 mm
- **Maximum ribbon width:** 55 mm
SMARTDATE
X60/128

Robust design with no wear parts requiring zero preventive maintenance.

Main benefits
• Wide print area 128mm x 150mm maximum to print large messages
• Multi-Code capability designed to print multiple codes on multi-lane packaging lines
• Longer ribbon length. 900-metre ribbon in select grades for fewer changeovers and improved uptime.

VIEW ONLINE
Print features

- Print speed:
  - Up to 700 mm/s
- Print area:
  - Intermittent: 128 mm x 75 mm
  - Continuous: 128 mm x 150 mm
- Automatic printhead set-up
- Dead-dot detection and image adjustment
- Combined intermittent and continuous printer
- Easily changes from left to right hand with no additional parts
- Average gap between prints 0.5mm
- Automatic shift codes and serial numbers
- Multiple variable user input fields with alphanumeric texts
- Ribbon saving modes: radial ribbon save, digital ribbon save, interlaced, multi-print triggers and negative ribbon advance
- Print specification: full True Type 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

Other characteristics

- Supplies: thermal transfer ribbon available in a variety of grades and colours
- Maximum ribbon length: up to 900m
- Minimum ribbon width: 55 mm
- Maximum ribbon width: 130 mm
- Weight: Printer 10.2kg, Colour controller 4.8kg, Mono controller 4.0kg
- Electrical power supply: 90–264 V with automatic switching:
  frequency 47/63 Hz; power 150 VA
- Air consumption: typically 0.47 ml/print
- Operating temperature range: 0 to 40°C
- Humidity: 10% to 90% non-condensing
LASER SMARTLASE
C340

The SmartLase C340 is an all-in-one, cost-effective, CE certified laser coding solution that is suitable for basic packaging applications in the food and beverage industries.

Main benefits

• Complete & flexible - All-in-one laser solution for fast and easy line code changes.

• Ready to print in one convenient unit - The SmartLase C340 comes complete with a built-in fume extractor and package sensor mounted on an adjustable stand with a rolling caster base.

• Easily moveable unit - Change codes or transport the SmartLase C340 all-in-one solution from one conveyor to the next in less than 15 minutes.

• Powerful enough to handle most coding and marking applications - 30 Watts of power at a 10.6 wavelength and choice of lenses from 70 to 120 mm.

• Robust & simple - An industrial designed laser for consistently crisp codes.

• Durable design - Reliable IP44 design (no plastic parts). Resists > 1 mm particles and water sprays. Prints in environments up to 45 °C.

• Eliminate operator errors - Intuitive and simple user interface options; optional 7" WYSIWYG touchscreen or quick and convenient web-based UI for remote access laptop or desktop PC.

• High-quality codes - Patented “SmartLase Code Technology” ensures superior quality codes on a wide variety of substrates, including difficult-to-code laminate coated materials, at a rate of up to 125 metres per minute.

• Trusted technology - Utilising patented algorithms and unique fonts allows for impeccable lines and curves, achieving high-quality codes at faster line speeds.

• Flexibility and uptime - Ability to adjust contrast and code position without stopping production.
Print features

- Production line speed (max.): 125 m/min.*
- Marking speed (max.): 900 characters
- Print features:
  - Number of text lines: limited only by character height and allowable print area
  - Character height: from 1 to 120 mm
  - Choice of characters: Chinese, Latin and Unicode fonts
  - Wide selection of languages: Arabic, Bosnian, Brazilian Portuguese, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Polish, Romanian, Russian, Serbian, Slovenian, Spanish, Swedish, Turkish
- Standard coding area and focal distance (mm): Lens 100 x 100 / fd 140
- Operations:
  - Web or optional user interface 7" WYSIWYG colour touchscreen, QWERTY or AZERTY virtual keyboard, navigation via icons including online help file
  - Message storage capacity of 500 jobs
  - Upload and download of messages via USB Flash Drive
  - Standard I/O: Ethernet interface, USB, encoder, sensor, extract or controls, optional Markem-Imaje alarm tower, remote interlocks (dual channels)
- **Other characteristics:**
  - Printhead weight: 21.4 kg
  - Printhead: anodised aluminium
  - Dust/Humidity protection: IP44
  - All-in-one stand includes: Mast with X & Y adjustments, footplate with casters, printhead bracket mount, user interface support mount, mounting bracket, cable clip, package sensor and sensor mount
  - ES100 dust and gas extractor
  - Operating temperature range: 5 to 45 °C - Humidity: 5 to 80% non-condensing
  - Electrical power supply: 100-240 V with automatic switching - Frequency: 50/60 Hz - Power consumption 7 A; 700 VA

**Options**

- Coding area and focal distance (mm): Lens 70 x 70 / fd 100 – Lens 100 x 100 / fd 140 – Lens 120 x 120 / fd 175
- Remote user interface
- Accessories: Guarding tunnel, photocell, encoder, alarm beacon
- PC software:
  - Web user interface provided as standard
  - Compatible with CoLOS Create Professional and CoLOS Enterprise
  - Logo creation with CoLOS Graphics
LASER SMARTLASE
C150 / C350

Introducing new, patented “SmartLase Code Technology” embedded into all SmartLase models. This innovative advance includes single and universal fonts as well as algorithms capable of scribing impeccable lines, curves and points faster than ever before. It delivers two key benefits: 30% greater printing performance with best scribing quality compared to market standards:

• For the beverage industry: Output rate increases from 1,200 to 1,800 bottles/min
• For the food industry: Character printing capacity of one code increases from 30 to 120 characters, for improved traceability and anti-diversion

Benefits

• Fast – more than 100,000 products coded per hour
• Robust – extended coder lifetime by 30%
• Change of scan head module in 10 minutes without alignments
• Pointing diode and integrated laser power metre option facilitate diagnostics
• Job and file transfers through USB port

VIEW ONLINE
**Print features**

- Coding on stationary or moving products
- Number of text lines: limited only by character height and allowable print area
- Character height: from 1 mm to 100 mm
- Choice of characters: Chinese, Latin and unicode fonts
- 3 contrast modes: high, medium and low contrasts due to patented “SmartLase Code Technology”
- Wide selection of languages: English, French, Spanish, German, Italian, Portuguese, Brazilian, Chinese, Korean, etc.

**Option**

- Coding area and focal distance (mm): Lens 55 x 55 / fd 80 – Lens 70 x 70 / fd 100 – Lens 120 x 120 / fd 175 – Lens 155 x 155 / fd 220 – Lens 205 x 205 / fd 290
- Remote user interface on 30 W version
- IP65 laser head
- Integrated laser power metre
- 9-metre interconnecting cable length with an optional 90° printhead cable adaptor
- 3-metre cuLus listed interconnecting cable
- Industrial interface option board: RS-232/422 connectivity, 20 configurable operator /O (12 inputs / 8 outputs), 2 voltage free relays, USB (optional scanners)
User interface
SL C350 / SL C350 S
SL C350 L

Laser head
SL C150 / SL C150 S
SL C350 / SL C350 S
SL C350 L

Controller
SL C350 / SL C350 S
SL C350 L
LASER SMARTLASE C350
HD & LHD

Laser coding on stick pack, pouches and wide web, multi-lane application. The right solution whatever the rate, size and substrate of the product (wide choice of lenses, scan heads and laser sources) best quality codes, contrast and consistent character shape.

Main benefits
• Our 30-watt solution set for wide coding area
• Line Efficiency:
  • Time for product line batch changeover greatly reduced
• Eco-Initiatives:
  • Dedicated fume extraction system for a cleaner, healthier, safer, odourless working environment
• High-Quality Coding:
  • Promotional coding capability on a large range of coloured foils and films with no risk of piercing
• Cost Reduction:
  • Largest print area 500mm x 500mm combined with low maintenance and consumable costs means industry leading low TCO

Additional benefits
• Text can be located anywhere on the pot lids and in any orientation
• Last-minute customisation possible (flavour, weight, promotion, etc.) helping to reduce foil inventory
• Unsightly dedicated windows are no longer necessary
• LHD printhead offers a dedicated solution for laminated foils and stick packs
Print features

• High-quality coding up to 35 cycles/min
• Large marking fields to minimise the number of printheads per line:
  - One machine up to 24 pots covering 500mm coding width (Fd 430)
  - Two machines up to 48 pots covering 1000mm coding width (Fd 430)
• Compliant with various pot matrix layouts (4x6, 2x8, 4x12)
• Specific L HD (10.2 wavelength) printhead delivers high-quality codes on wide range of laminated substrates and ensures longer lifetime (2-year warranty on laser printer)
• Coding on a large range of coloured foils
• Robust and proven IP54 / IP65 printer design
• Efficient extraction system with automatic flow control optimised for wide coding area (ES500+ solution)
• High-quality coding up to 55 cycles/min
• Large marking fields to minimise the number of printheads per line:
  - One machine covering 300mm coding width (Fd 300)
  - Two machines covering 600mm coding width (Fd 300)
  - Three machines covering 900mm coding width (Fd 300)
  - Four machines covering 1200mm coding width (Fd 300)
• Specific L HD (10.2 wavelength) printhead delivers high-quality codes on wide range of laminated substrates and ensures longer lifetime (2-year warranty on laser printer)
• Proven robust IP54 /IP65 printer design
• Efficient extraction system with automatic flow control optimised for wide coding area (ES500+ solution)

Other characteristics

• CoLOS® software solutions. Networking software solutions:
  - to centralise production data management
  - to automate the coding task (provides data integrity)
• Ethernet connectivity
• Compliance with 2006/42/CE and ISO 13849:2008 (Category 3; Pld)
• Possibility of remote data management
• Long head-to-printer conduit (3, 6, 9m)
• Quick and easy head swap with single connector
• Operating temperature range: 5° to 45°C
The Lightjet Vector high-power CO2 laser has been designed for the most demanding production environments delivering permanent, consistent, high-quality coding on some of the most challenging substrates such as PE, PP plastics, glass and rubber. This 120 Watts version is the ideal solution for complex messages up to 5-line applications at high production speeds. This vector technology equipped with its articulating arm and compact scanning printhead is well-suited for applications in the beverage, pharmaceutical, cosmetic and personal care industries.

Main benefits
• Capable of printing complex messages at high output rates (up to 1,000 products/minute) without requiring external cooling (no air, no water).
• Ability to print in hot locations (up to 40°C) while maintaining consistent coding quality.
• Proven reliability of the Rofin diffusion-cooled CO2 Slab laser. Thanks to its 120 Watts of power, you can expect consistent quality coding even after several years of intense use.
• Ease of integration within packaging lines (labelling machines) with compact printhead and articulating arm offers up to 1.2 metres of reach.
• Capable of printing on different types of glass, plastics and even on difficult to code labels (gold coated label).
Print features

- Coding on stationary or moving products
- Marking in the direction of product movement or perpendicularly
- Line speed (max.): 300 m/min (8 characters, 2 mm high)
- Marking speed (max.): 1,000 characters/sec
- Fixed and variable marking: text, dates, times, counters, logos
- Set of vectorised fonts, True Type compatible, Asian and Arabic characters, specific font for thin materials (PET)
- Character height from 1 to 50 mm
- Vast choice of barcodes: EAN8, EAN13, UCPA, UPCE, Code 39, 2/5 Interleaved, code 128 and 2D codes: Datamatrix, AZTEC, PDF417, RSS14
- Coding area (mm): 105 x 105/fd 150

Options

- Coding area and focal distance:
  - Lens 70 x 70/fd 100
  - Lens 140 x 140/fd 200
  - Lens 210 x 210/fd 300
- 7 knuckles articulated arm
FIBER LASER CODER

F200

New compact fiber laser: For polymers and metals

The SmartLase F200 complements our SmartLase C Series CO2 range and is designed to be a high-quality code solution for polymers and bare metals. The F200 provides permanent high-quality, high-contrast codes on a variety of rigid plastics (PE/PP), bare metals and other industries. The permanence of these codes ensures long-term traceability of your products.

Main benefits

• Large choice of lenses to meet specific application needs (message content, speed and substrate)
• Operates as stand alone or online
• High-contrast permanent coding onto metals and plastic to ensure long-term traceability
• Superior laser source lifetime = 100,000 hours
• Operates in environments of up to 35°C (97°F)
• Pointing diode facilitates accurate code placement on the substrate
Print features

- Production line speed (max): up to 120m/min
- Marking speed (max): up to 1000 characters
- Coding on stationary or moving products
- Number of text lines: limited only by character height and allowable print area. Limited to 4 lines if tactile user interface terminal is used.
- Character height: from 1mm to allowable print area
- Logos, graphics, one & two-dimensional barcodes
- Choice of 4 laser fonts
- True Type fonts
- Coding area and focal distance of the lens (mm, standard): 100 x 100/fd 162
- Pointing diode (635nm)

Options

- Wavelength: 1,06µm
- Head weight: 5kg
- Controller weight: 21kg
- Interconnecting cable length: 3m
- Controller: Painted steel
- Head: Stainless steel design
- Dust/humidity protection: IP44
- No plant air required for cooling
- Operating temperature range: 15 to 35°C (59-97°F)
- Humidity: 10 to 95% non-condensing
- Electrical power supply: 125-230V with automatic switching: frequency 50/60Hz
- Power consumption: 3A; 350VA
SECONDARY CODING
The integration of quality, efficiency, and cost saving. Introducing the latest revolutionary printer, the U2 Diesel.

Main benefits
1. Lower printer cost
2. Higher print resolution
3. Higher print speed
4. No ink leakage
5. No maintenance
6. No consumable parts
7. No technician required
8. Lower price per print
9. Lower total cost of ownership

Equivalent print to 5-gallon ink barrel exclusive ink formulation. Cost-effective 420 bulk ink solution.
Print features

- Display: 3.5” Colour LCD with LED backlight
- User interface: Simple and easy-to-use operating system
- Input Device: Pocket-sized IR remote keypad
- Available Languages: English, Japanese, French, German, Spanish, Portuguese, Russian, Korean, Italian, Turkish, Hungarian, Slovak, Czech, Swedish, Romanian, Serbian, Bulgarian, Chinese (Traditional & Simplified)
- LED Indicators: Alarm, Ink low, print, run, remote on/off
- Print Engine: Hewlett-Packard Thermal Ink Jet technology
- Print Resolution & Print Speed: 600 x 300 dpi (76.2 m/min). Print quality is resolution & speed dependent
- Print Distance: Recommended 6mm
- Print Height: Up to 4 lines and 12.7mm (0.5”). Selectable font size from 2.7mm, 3.6mm, 5.5mm, 8mm, 10mm, 12.7mm
- Print Capability: Alphanumeric, logos, date/time, shift code, counter, lot box code
- Barcodes: EAN8, EAN13, EAN14, EAN128, UPCA, UPCE, CODE39, CODE128, TF14 (SCC-14), NVE18 (SSCC-18), C25INTER, CODABAR, PDF417, DATAMATRIX, QRcode
- Electrical Requirements: AC 100V~240V, 50/60Hz
- Weight: 0.49kg (1.08 lb.) - excluding cartridge and bracket
- Dimensions (L/W/H): 114x76x60 (mm)
- Mounting Orientation: Horizontal or downside
- Message Storage Capacity: Store up to 999 messages
- Operating Temperature: 5°C – 40°C (41°F – 104°F)
- Data Interface: RS485 & USB port

Optional Accessories

- Encoder: Provide high print quality on unstable conveyor
- Photocell: Provide more reliable and precise sensing parameter
- Alarm Kit: Alert users in the event of an incident
- Power consumption: 3A; 350VA
39,000 coded boxes with just one litre of ink!
Bring unmatched value to your production line with the new 4500 valvejet coder.

Main benefits
- One button only, to activate/deactivate print
- Operator interface: intuitive icon-based WYSIWYG 5.7" (144.8 mm) touchscreen
- Interface available in 32 languages: Arabic, Brazilian, Bulgarian, Chinese (simplified), Croatian, Czech, Danish, Dutch, English, Finnish, Greek, Hebrew, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Farsi, French, German, Polish, Portuguese, Romanian, Russian, Slovenian, Spanish, Swedish, Taiwanese, Thai, Turkish, Vietnamese
- 3 user levels (Operator, Advanced Operator and Administrator)
- Full message editor included
- Instructions can be given in one language while messages can be printed in another language and/or character set
- Import/export jobs and printer settings through USB
- Direct purge button function on controller for convenient cleaning
- Supplied as complete functional system ‘out-of-the-box’
Print features

- Two water-based ink colours – black and red – for porous substrates
- 0.5 or 1L ink bottle, with ink level alarm. Indication of remaining ink on the screen
- Seven nozzle print heads to print one line of 13 mm or 24 mm
- 16 nozzle print heads to print one line of 29 or 56 mm or two lines of 13 or 24 mm each
- Prints text, time, date, expiration dates, shift code, counters, images (png or bmp)
- Calendar feature for custom date formats
- 200 messages minimum of 100 characters each
- Character width adjustment
- Print delay for message placement
- Top and side printing
- 2-20 mm print distance between the printhead and the object
- Print direction from right or left
- Print speed up to 60 m/min
- Ink circuit:
  - Internally regulated
  - No adjustments needed. No need of plant air
- Character sets: Unicode capability. Latin, Arabic, Cyrillic, Chinese (simplified), Chinese (traditional), Greek, Hebrew, Japanese, Thai, etc.
- Support for True Type and BDF-font format
- Font matrix:
  - 7N: 5x5, 7x5
  - 16N: 5x5, 5x7, 12x10, 16x10
DROP-ON-DEMAND
VALVEJET 4700

Facilitate logistics with the 4700’s proven drop-on-demand valvejet technology. The 4700 is quick and easy to install and operate. It offers numerous low-resolution text and logo options in several colours for porous, semi-porous and non-porous surfaces or products. Its extended ink capacity enables you to maximise production uptime while its reserve tank allows for consumable changes without stopping your line.

Main benefits

• Made to fit on any line

• The compactness of this coder makes it the perfect solution for some of the most inaccessible production lines and environments. Printing on a variety of packages and materials (lumber, wallboard, etc.), it easily integrates with other equipment via I/O connection for message select, error output, and weight scale integration.

• Effortless image creation with 7” colour touchscreen.

• Using intuitive icons, operate and design codes in your local language with Latin, Arabic, Cyrillic, Chinese, Greek, Hebrew, Thai, etc. characters.

• Your product, your print. Identify your products with your choice of static text, date, time, expiration date, shift code, counter, and even logos, in your choice of eight font sizes.

• Improve readability. Use one printhead for simplicity or two, with the second printhead mounted on the opposite side of the case, to make the codes visible from all directions.

• Flexibility to print on a variety of materials. Choose from a wide ink offering, in black or colour, for your porous or non-porous packaging or materials such as cardboard, coated cardboard, plastic, glass, metal, PVC, and wood. Codes will remain readable even in the most challenging storage conditions.

• Reduced logistics errors with large characters. With your choice of the 7 or 16 nozzle printhead, print up to 56 mm high codes with a single printhead or stitch print with two printheads together to create a code with up to 114 mm characters. Message will be legible from afar helping to simplify internal logistics and avoid errors.

• Add ink without stopping your line. 20L ink canister allows for more product coding and can be changed during production thanks to the additional reservoir.

• Increased throughput

• Run your line up to 90 m/min to get more product out the door.

• Constructed to be IP54 compliant. Ensures reliable operation even in a dusty environment and when splashed with water.

VIEW ONLINE
Print features

- 4 water-based ink colours – black, red, blue, and clear (UV visible) for printing on porous paper, cardboard, plasterboard, or pulp; two propanol-based colours – black and red for printing on non-porous coated paper; red ethanol-based for printing on wood; and black ethyl acetate-based for printing on non-porous high-gloss coated surfaces, plastic, HDPE, cellophane, PVC, metal and glass.
- 5 L or 20 L ink canisters, with ink level alarm, and indication of remaining ink on the screen.
- One or two printheads.
- 7 nozzle printheads to print one line, maximum 24 mm.
- 16 nozzle printheads to print up to two lines, and up to maximum 56 mm.
- (2) seven nozzle printheads print two independent lines, each up to maximum 24 mm.
- (2) 16 nozzle printheads may print independent images, each up to maximum 56 mm.
- (2) 16 nozzle printheads also print a single interconnected image up to maximum 114 mm.
- Prints text, time, date, expiration dates, shift code, counters, image (png or bmp).
- Prints variables supplied from an external source via the serial port.
- Calendar feature for custom date formats.
- Stores at least 800 messages.
- Character width adjustment.
- Print delay for message placement.
- Top, side, opposite side, and bottom printing.
- 2-20 mm print distance between the printhead and the object (<5 mm recommended for best print quality).
- Print in any direction.
- Ink circuit:
  - Internally regulated.
  - No adjustments needed and no plant air needed.
- Character sets: Unicode capability: Latin, Arabic, Cyrillic, Chinese (simplified), Chinese (traditional), Greek, Hebrew, Japanese, Thai, etc.
- Support for True Type and BDF-font format.
- Font matrix:
  - 7N: 5x5, 7x5.
  - 16N: 5x5, 5x7, 12x10, 16x10.
  - (2) 7N: 5x5, 7x5, 12x7.
  - (2) 16N: 5x5, 7x5, 12x7, 16x10, 25x19, 32x24.
- Five printhead slant angles for finer resolution at reduced print heights.
Main benefits

- The correct information on every case, every time. Touch Dry® Hot Melt ink eliminates the need for multiple ink formulations and changeover. Stage or add ink without stopping the production line. Our solvent-less ink and auto purge technology reduce operator maintenance.
- Touch Dry® Hot Melt inks print on a wide range of substrates and environmental conditions. Large drop volume at high frequency provides reliable printing at speeds up 178 m/min. Multiple dye and pigment based inks and customisable printer settings give total message control.
- Multiple jetting orientations; single side, opposite side, side and front, and top printing. Product configuration options include scanners, encoders, printhead slide assemblies, and stands. The 5400 can be integrated with production lines, databases, or ERP systems via CoLOS® Enterprise software.
Print features

- Print Head (PH) dpi:
  - Vertical dpi: 200
  - Addressable jets: 256
  - Nozzles: 512
- Print speed (continuous):
  - Print density 1 - 200 by 150 dpi
    - Up to 178 m/min
  - Print density 2 - 200 by 300 dpi
    - Up to 89 m/min
  - Print density 3 - 200 by 450 dpi
    - Up to 59 m/min
  - Print density 4 - 200 by 600 dpi
    - Up to 44 m/min
  - Print density 5 - 200 by 750 dpi
    - Up to 36 m/min
- Print densities available: 1 to 10
- Encoder scaling: allows for conveyor line speed matching and for higher print speeds with a reduction in the print resolution
- Slant mode: increases PH vertical dpi from 200 to 282 with a maximum image height of 46 mm
- Print area (maximum/PH):
  - Print heights: 65 mm
  - Print length: 1,200 mm
- Print specification extended ASCII character set
- Printing of real-time clock (hr/min/sec), dates and auto updating best before dates and serial numbers
- Barcodes (Linear): ITF, Code 39, Code 128, EAN 128, EAN 8, EAN 13, UPC A, UPC and RSS
- Barcodes (2D): static Datamatrix, Composite RSS and dynamic QR

Options

- PH slide assembly
- Stainless steel cabinet
- Post print bar code scanner assembly
- TU look up assembly
LARGE CHARACTER
HIGH-RESOLUTION
PIEZ0 5800

The 5800 large character inkjet printer represents the next generation of Touch Dry® Hot Melt technology delivering a superior print quality coding solution for your corrugated cases, trays and wrapping films. Pyrotec PackMark’s Touch Dry® Hot Melt inks are solvent-free and environmentally friendly. Codes and messages never bleed or fade, dry on contact and deliver 100% readable, GS1 compliant codes.

Main benefits

- Touch Dry® Hot Melt inks print on a wide range of substrates and in environments ranging from 0 to 40 ºC.
- The printer, boasting print speeds up to 182 m/min, can be equipped with optional printhead slide assembly optimising both print gap control and print quality.
- Cutting edge communication capabilities include colour touchscreen, Ethernet, USB, and web user interface, providing increased flexibility and functionality to end users, integrators and OEMs.
- Optional CoLOS® Enterprise networking software is available for central management of data from remote databases or ERP systems.
- Compact, modular design for stand alone operation or complete integration.
- Advanced printer design provides quick start up and minimises overall energy consumption.
- Uptime features include a unique programmable self maintenance system and ink reloading capability during operation.
- Touch Dry® solid ink blocks are easily handled for simple and trouble free operation.

VIEW ONLINE
Print features

- Printhead dpi:
  - Vertical dpi: 200
  - Addressable Jets: 256
  - Nozzles: 512
- Print speed–continuous:
  - Print density 1 - 200 by 150 dpi
    - Up to 182 m/min
  - Print density 2 - 200 by 300 dpi
    - Up to 91 m/min
  - Print density 3 - 200 by 450 dpi
    - Up to 61 m/min
  - Print density 4 - 200 by 600 dpi
    - Up to 45 m/min
  - Print density 5 - 200 by 750 dpi
    - Up to 36 m/min
- Print densities available: 1 to 8
- Encoder scaling: allows for conveyor line speed matching and for higher print speeds with a reduction in print resolution
- Print area - maximum/printhead:
  - Print height: 65 mm
  - Print length: 1,000 mm
- Print specification: full True Type font supported
- Printing of real-time clock (hr/min), dates and auto-updating best before dates and serial numbers.
- Barcodes (Linear and 2D): ITF, Code 39, Code 128, EAN 128, EAN 8, EAN 13, UPC A, UPC E, Datamatrix, RSS linear, RSS composite, QR, RSS 14, RSS expanded, PDF 417
PRINT AND APPLY
LABELLING 2200
SERIES

The new 2200 Series builds on a proven concept providing reliability, efficiency and ease of use with thousands of units installed in demanding 24/7 environments.

The 2200 Series takes print and apply to the next stage of evolution, giving you a wide range of interchangeable applicators, optimised operational intervention and unparalleled application rate.

Main benefits
• Ability to print and apply at rates up to 125 packs per minute regardless of the data complexity or content.
• Simple media path allows operators to reload label and ribbon rolls in less than 40 seconds.
• 560 m ribbon and label rolls compared with the market standard of 450 m to reduce the line stoppages by 25%.
• Compliant ANSI grade A/B codes even at the highest application speed.
• CoLOS® software solutions ensure product data integrity, central data management and easy connection to existing enterprise database.
• CoLOS Terminal®, the new colour touchscreen, enables easy selection of labels to be printed and powerful data management through an intuitive user interface.
• Designed to be over 95% recyclable.
Options & Accessories

- Inside wound label kit
- Local industrial terminal with QWERTY keypad and backlit display
- Enhanced onboard user interface:
  - Label selection
  - Machine back-up/restore or cloning
- Expanded memory SD card slot
- Scalable and international fonts
- Three-colour-status beacon
- Barcode reader
- Range of industrial stands
- CoLOS Terminal
Print features

Print methods: Thermal transfer or direct thermal
- 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
- True Type font downloadable
- Support for Unicode fonts
- Graphic features: BMP, WMF, PCX, PNG, ICO, GIF, TIFF, JPEG
- All major linear barcodes and 2D barcodes supported
- Applicators:
  - Tamp, Blow, Wipe or Tamp Blow for top, side and front applications
  - Corner Wrap for two adjacent side applications

Dimensions refer to 2200 Tamp Long
CimJet Label printer applicators are recognised for their high-quality printing, outstanding reliability and rugged durability in the toughest of manufacturing environments. The proven design delivers accurate, clear, crisp codes and 100% readable barcodes meeting GS1 (UCC-EAN) standards to enable superior visibility in the supply chain.

Main benefits
• The built-in user interface provides simple operation and enhances quick fault recovery, synchronised label and ribbon changes minimise potential operator error and contribute to the CimJet’s recognised reliability.
• The CimJet offers a range of label applicators such as Corner Wrap and Tamp Blow applicators to meet customer demands. Plugin barcode scanner provides instant confirmation of label application and barcode read.
• All CimJet machines feature internal data storage for simple product selection. CimJet labellers can be run independently without the need of a local PC or network connection. Integration into packaging lines, databases and ERP systems is flexible via CoLOS® Enterprise software. Printed and powerful data management through an intuitive user interface.
Print features

- Print methods: Thermal transfer or direct thermal printing
- Print width: 104 mm or 152 mm
- Print resolution: 200 dpi or 300 dpi
- Print speeds up to 375 mm/sec
- Flexible installation options with machine handing and orientation
- Built-in real-time clock
- All major barcodes supported
- Logos and images supported

- Applicators:
  - Standard tamp application for side and top applications
  - Tamp/Blow for non-contact applications with variable pack location or uneven surfaces
  - Blow for high-speed side or top applications
  - Low tray applicator for high-speed tray or case labelling
  - Front or rear corner wrap applications
  - Dual label apply for front and side
  - Front application
  - Long reach single sided pallet applications
  - Dual or single label pallet applications for continuously moving pallets

Accessories

- Customer application pads
- Visual alarm beacons
- Label verification scanner
- Product identification scanner
- Fully integrated software solutions
04
TERTIARY CODING
PRINT AND APPLY
LABELLING 2200
PALLET

The 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 optimised operational intervention and unparalleled reliability.

Main benefits
• One or two side pallet labelling at speeds up to 120 pallets per hour.
• Unique compact design and robust swing arm applicator makes it the perfect long-term investment.
• Simple media path allows operators to reload label and ribbon rolls in less than 40 seconds.
• Compliant ANSI grade A/B codes even at the highest application speed.
• CoLOS software solutions ensure product data integrity, central data management and easy connection to existing enterprise database.
• Designed to be over 85% recyclable.
Markem-Imaje 2200 Pallet

Print features

- Print methods: Thermal transfer or direct thermal
- Built-in real-time clock
- 10 individual programmable counters
- Print engines:
  - 2620: 168mm, 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
- True Type font downloadable
- Support for Unicode fonts
- Graphic features: BMP, WMF, PCX, PNG, ICO, GIF, TIFF, JPEG
- All major linear barcodes and 2D barcodes supported
- Left and right applicator versions (frontside, backside)
Options & Accessories

- Inside wound label kit
- Expanded memory SD card slot
- Scalable and international fonts
- Three-colour-status beacon
- Barcode reader
- Floor stand and docking station
PRINT AND APPLY LABELLING CIMPAK

CimPak pallet labelling systems have earned a reputation for quality and reliability in the toughest of manufacturing environments. Their design offers a flexible, scalable solution for achieving the ultimate traceability in warehousing and inventory control. The CimPak’s proven design delivers accurate, clear, crisp codes and text with 100% readable barcodes meeting GS1 (UCC-EAN) standards to enable superior visibility in the supply chain.

Main benefits

• Synchronised ink ribbon roll change thus maximising uptime. Built-in user interface with simple button operation and service diagnostics.
• Maximise productivity with proven, accurate pallet labelling up to 4 labels on 3 sides (front, side and rear) with 100% readable barcodes at speeds up to 120 pallets per hour to meet customer demands.
• Flexible integration into packaging lines, databases and ERP systems via CoLOS® Enterprise software.
• Each unique pallet label can be identified and tracked at every step of its journey, from when it leaves your facility to its final destination.
Print features

- Print methods: Thermal transfer or direct thermal
- Maximum print width: 152 mm
- Standard application pad: 150 x 210 mm (minimum label size: 75 x 105 mm)
- Print resolution/speed: 200 dpi at 150 mm/sec
- Up to 120 pallets per hour
- Application rate: two labels in 14 seconds (front and side)
- Flexible tamp application: front, front/side, side, front/side/rear, rear/side, rear
- Active pallet detection for uneven or variable pack configurations
- Applicator stroke with 2 axis: 500 x 500 mm or 500 x 750 mm
- Flexible installation options with machine hand and multi-position applicator head
- Built-in real-time clock
- All major barcodes supported
- Logos and images supported

Options & Accessories

- Customer application pads
- Visual alarm beacons
- Label verification scanner
- Barcode reader
- Ethernet connection.
- Automated height adjustment for double or stacked pallets
- Fully integrated software solutions
- Windows based label design package (CoLOS®)
Pyrotec PackLink software is a fully-integrated customised product tracking system that increases line visibility while improving efficiency by tracking waste, labour and resources, and limiting downtime by enabling critical decisions to be made on the fly.

In short, Pyrotec PackLink helps customers to achieve overall equipment efficiency (OEE).
Right data. Right print. Every time.
Minimise waste, drive efficiency and achieve compliance with CoLOS®

**Did you know?**
- You can reduce costs of manual data entry and message data maintenance by 90%.
- You can cut your changeover duration by 50% and save hundreds of hours per year.
- You can ensure that your finished products are correctly marked and 100% compliant with regulations.
- You can reduce your coding errors and cut up to 15% off your total running costs.
Helping you to integrate for the future

Between manufacturing and selling your products, you have more important things to worry about than ensuring the right information is printed every time.

You need accuracy and efficiency in your printing and coding so you can focus on producing high-quality products which delight your customers. Markem-Imaje’s CoLOS information management system can deliver this for you. Today and tomorrow.

CoLOS is a scalable modular solution that reduces waste from coding and marking errors, increases line efficiency and protects brand value by ensuring printing compliance. It does this by facilitating structured message design and data management while streamlining printer set-up during production and providing security and traceability of printed information.

In addition to providing printer performance reports, CoLOS seamlessly liaises with your production and information system infrastructure to further maximise efficiency and support your industry 4.0 strategy.

And, unlike other suppliers, Markem-Imaje is not reliant on third-party vendors. We make the software and the printers so you will have fewer integration and operational issues than when using a patchwork of products and systems.

This single-source accountability, bolstered by an in-house service team with the market’s most extensive global coverage, means that if something goes wrong, resolving it involves minimal hassle for you.

You can also rest assured that your investment will be protected long-term as CoLOS has been proven across 17,000 installs and fine-tuned throughout 25 years of internal development.

• One stop shop
  Single-source supply of software and printers to minimise set-up and operational issues
• Proven solutions
  Standard core software, used in over 17,000 installations worldwide
• Scalable flexibility
  From a single line to a large factory, configured or customised to your exact needs
• Interoperability
  Easy integration with third-party production equipment and back office systems
• Decision management functionality
  Real-time and historical reports to optimise printer performance
• Unparalleled global support
  Quick, consistent service wherever you need it
Product identification and traceability challenges

Your challenges

1. Production preparation and data management
   • Complex message label design with interlinked text and barcodes
   • High costs and numerous errors when managing many message layouts for diverse printer types across multiple production lines
   • Time wasted manually copying data to be printed from system to system

2. Production start-ups and performance
   • Complex message label design with interlinked text and barcodes
   • High costs and numerous errors when managing many message layouts for diverse printer types across multiple production lines
   • Time wasted manually copying data to be printed from system to system

3. Product output: quality and coding
   • Rework due to missing or unreadable text and barcodes because of poor printer set-up and maintenance
   • Waste from using incorrect data in printed messages
   • Scrapped product due to incorrect packaging materials being used on the line

4. Product distribution and compliance
   • Difficulty in implementing coding solutions for on-demand unique code marketing promotions
   • High costs associated with identifying products in the supply chain leading to increased stock levels and hard to execute recalls
   • Fines and returned products when codes are not compliant with regulatory requirements or retailer supply chain demands such as GS1-128
LABELLING
The ALstep is a compact sized and low-cost applicator for self-adhesive labels, which can be easily integrated into already existing packaging lines. The ALstep is based on a robust, reliable mechanical structure; it can be fitted into particularly restricted areas, thanks to the side access web threading allowing a fast, easy label changeover.

The ALstep can hold label rolls up to 300 mm diameter for a long operating time; it is equipped with a separate control box with cooling fan, which makes it possible to operate it in harsh industrial environments.

This system comes in both S and M versions, for label widths up to 100 and 200 mm respectively. Its maximum label dispensing speed is as high as 25 m/min. (20 m/min. in the M version) thanks to a microprocessor controlled stepper motor enabling the operator to enter all labelling parameters by means of the display and function keys.

In more detail, the following functions are available:

- adjustment of label dispensing speed
- pre-dispensing adjustment
- labelling delay adjustment in millimetres
- automatic recovery of missing labels
- progressive counter
- end-of-roll alarm and web break alarm
- contact for connection to other systems

Additionally, the ALstep can be equipped with an array of optional devices to solve specific labelling problems, such as:

- hot foil printing unit
- thermal transfer printing module
- pneumatic and air-blow applicators
- near-end-of-roll sensor
- speed control via encoder
- label tracing by thickness capacitive sensor
The ALstep is also available in the E (Economical) version for label widths up to 100 mm at a maximum speed of 15 m/min; it is ideal for the applications where cost reduction is a crucial requirement.

The control panel makes it possible to adjust the main functioning parameters (speed and predispensing) by means of digital indicators (contraves), emitting an end-of-roll or webbreak alarm signal. A label sensor for transparent material is optionally available.

Technical specifications

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<tr>
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<th>ALstep E</th>
<th>ALstep S</th>
<th>ALstep M</th>
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<td>100 mm</td>
<td>200 mm</td>
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<td>Transparent label sensor</td>
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<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Coder/IT Printer</td>
<td>N</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Checking device for near end of reel</td>
<td>N</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Pneumatic applicator</td>
<td>N</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Encoder</td>
<td>N</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Unwind unit diam.</td>
<td>300 mm</td>
<td>300 mm</td>
<td>300 mm</td>
</tr>
<tr>
<td>Power supply</td>
<td>240V - 50 Hz 2</td>
<td>40V - 50 Hz 2</td>
<td>40V - 50 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>400 W</td>
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<td>400 W</td>
</tr>
</tbody>
</table>

O = optional | S = current | N = not available
ALritma consists of a range of high-performance applicators for self-adhesive labels, designed to be installed on packaging lines where production speed, accuracy and reliability are primary needs. ALritma labelling units are based on an innovative mechanical structure which can match great sturdiness with versatility.

The applicator is controlled by a powerful microprocessor equipped with a touchscreen display visualising all the most frequently used parameters at once by means of function keys, which allow for the running of advanced functions by relieving the operator from complicated mechanical adjustments and considerably speeding up the format changeovers.

In more detail, the following functions are available:
• label pre-dispensing adjustment
• adjustment of label dispensing speed
• labelling delay adjustment in 0.1mm increments
• storing of 40 different labelling formats
• automatic recovery of missing labels
• progressive and regressive pieces counter with automatic stopping device
• automatic removal of double product detection
• shift register between product sensor and label positioning point
• end-of-roll alarm and web break alarm
• output connection to other systems

In addition to its sophisticated standard devices, ALritma can be equipped with an array of ancillary devices:
• thermal transfer overprinter;
• pneumatic and air-blow applicators;
• checking device for near end-of-reel;
• automatic speed matching via encoder with delay algorithm to maintain label placement position
# ALtech ALritma Labelling Machine

## Technical specifications

<table>
<thead>
<tr>
<th></th>
<th>ALritma S</th>
<th>ALritma M</th>
<th>ALritma L</th>
</tr>
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<tbody>
<tr>
<td>Label width max mm.</td>
<td>100</td>
<td>200</td>
<td>300</td>
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<tr>
<td>Speed</td>
<td>40 mt./min.</td>
<td>40 mt./min.</td>
<td>35 mt./min.</td>
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<tr>
<td>Controls</td>
<td></td>
<td>Display touch screen</td>
<td></td>
</tr>
<tr>
<td>Memory capacity</td>
<td>IP55</td>
<td>IP55</td>
<td>IP55</td>
</tr>
<tr>
<td>Machine body protection</td>
<td>300 mm</td>
<td>300 mm</td>
<td>300 mm</td>
</tr>
<tr>
<td>Ø Unwind unit Ø</td>
<td>300 mm</td>
<td>300 mm</td>
<td>300 mm</td>
</tr>
<tr>
<td>Standard alarms</td>
<td>web break - drag open</td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>Missing labels recovery</td>
<td>S</td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>Near end of roll check</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Pneumatic applicators</td>
<td>O</td>
<td>O</td>
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</tr>
<tr>
<td>Encoder</td>
<td>O</td>
<td>O</td>
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<tr>
<td>Transparent label sensors</td>
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<td>Coder TT Printer</td>
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</tr>
<tr>
<td>AC Power</td>
<td>240V - 50Hz - 400W</td>
<td>240V - 50Hz - 500W</td>
<td>240V - 50Hz - 400W</td>
</tr>
</tbody>
</table>

O = optional  |  S = current
ALritma X is the new ALTECH model of labelling head, where X emphasises and highlights its exceptional performances of capacity, accuracy, speed and range.

The advanced version of the ALritma X is fitted with an HP (high performance) kit made up of a motorised rewinder unit for the silicon paper as well as an innovative push-pull label web drive system. In this configuration the unit can reach 90 m/min at a cruising rate of 900 labels/min, with high positioning accuracy even when the product transit speed varies.

This version is particularly suited to huge workloads, such as on rotary labellers, especially in applications using printers/markers with their checking devices.
Technical specifications

<table>
<thead>
<tr>
<th></th>
<th>Akitma X</th>
<th>Akitma X HP</th>
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</thead>
<tbody>
<tr>
<td>Label width max mm.</td>
<td>100 (S); 200 (M)</td>
<td>100 (S); 200 (M)</td>
</tr>
<tr>
<td>Speed</td>
<td>40-9</td>
<td>0 (70 vers.M)</td>
</tr>
</tbody>
</table>

**Controls**

- Memory capacity: 40 formati - 40 formats
- Display touch screen
- Machine body protection: IP55
- Ø bobine - Unwind unit Ø: 400 mm.
- Ø riavvolgitore - Rewinder Ø: 250 mm.
- Powered rewinder: S
- Push-pull mechanism: S

**Standard alarms**

- Missing labels recovery: S
- Near end of roll check: 0
- Pneumatic applicators: 0
- Encoder: 0
- Transparent labels sensor: 0
- Coder/TT Printer: 0

**AC Power**

- 40V - 50Hz - 500W
The ALline labelling systems are automatically-operated in line systems which can be configured for the labelling of cylindrical, elliptical or rectangular products; moreover, they can suit specific requirements, such as the application of tamper-proof seals or labelling of singularly shaped products.

In more detail, ALline is based on the built-in philosophy, which means that all components are included in the structure/cabinet, well protected against dirt and accidental bumps. The cobalt blue (or stainless steel) structure is extremely sturdy and, thanks to its eye-catching design, it qualifies the whole packaging line. The control panel is located in an upper position, well protected against washing liquids or product loss. In standard configurations, the optional safety cabinet perfectly fits into the basic structure, thus sealing the ceiling; its pantograph style doors are extremely ergonomic and considerably reduce the footprint.

The completely internal cable path guarantees simpler cleaning, improved protection as well as a cleaner design. The microprocessor controlled format changeover is coupled with minimum mechanical adjustments, which have been engineered so that every component can be repeatedly positioned in a simple and reliable manner and firmly secured during its operations.

**ALline C**
ALline C is configured to apply wrap-around labels to cylindrical products, usually glass or metal jars and bottles containing foodstuff, as well as chemical, cosmetic and pharmaceutical products in plastic, glass or metal vials. Its compact base may be equipped with a side labelling head of the ALstep or ALritma series.

**ALline E**
ALline E has been configured to apply two front/back labels to elliptical or rectangular products, generally food, cosmetic, pharmaceutical and chemical products in plastic, glass or metal bottles and jars. Its basement can be fitted with two opposing side ALritma heads. ALline E can be equipped with the handling and spacing devices used on ALline C, whilst specific orienting and stabilising units are also available.

**ALline special**
ALline can also be specifically configured to meet special requirements. Multiple labelling in several positions, or the corner application of tamper-proof seals is possible thanks to the integration of extremely reliable and tested modular systems. The labelling of unstable cylindrical products can be performed by means of a special continuous or alternate-motion horizontal rollers conveyor.
Whenever high-speed or range is needed, bigger, powered unwind units can be mounted; for speeds up to 500 p/min, the no-stop configurations, with automatic head activation, allow an easy roll change without having to stop the machine and with no reject for non performed labelling.

**Technical specification**
- Power Supply: 400 V 50 Hz three-phase
- Power Consumption: 1 Kw
- Performances: up to 500 pcs/min. adjustable

**ALine Horizontal - Lip Balm Labelling with Inspection System**
ALmatic is a semiautomatic applicator of self-adhesive labels for cylindrical products. Its easy functioning provides for the manual loads of the product in the labelling position by the operator who activates the control lever. So ALmatic provides to the rotation of the product and to the application of the label till a completely happened adhesion.

Thanks to the ergonomics of the system and to the presence of templates of comparison ALmatic allows an exact labelling, making easier the manual operations of the placing of the product. The speed of the label supply, 12 mt/min, allows effecting its application in a very short time.

ALmatic can apply labels till 200 mm width on products with variable diameter from a minimum of 25 mm to a maximum of 110 mm. The format change is made in a fast and intuitive way through some simple sliding levers with block pommels. The industrial structure of the system, characterised from an unwind unit of 280 mm diameter with a tensioning arm, a paper traction group and silicon rewinder, guarantee a big reliability, continuous precision at the beginning and the end of roll and high autonomy.

Semi Automatic Bottle Label Applicator
Technical specification

- Maximum products diameter: 110 mm
- Minimum products diameter: 25 mm
- Maximum products height: 350 mm
- Maximum labels width: 200 mm
- Maximum labels length: 350 mm
- Application speed: 200 mm/sec
- Labels roll: 280 mm
- Power supply: 230V 50 Hz
- Option: hot foil group, transparent label sensor
LABELLING SYSTEMS FOR PHARMACEUTICALS
ALPHARMA

The ALpharma self-labelling systems have been specially devised by ALTECH for the packages of pharmaceutical products. Based on the wide experience gained in designing its innovative labelling systems, which have proven extremely successful in all market sectors, ALTECH has developed the ALpharma line, whose particularly advanced features fully comply with the strict rules and regulations of the pharmaceutical industry.

This line has been designed according to the Good Engineering Practices (GEP), with special attention to a range of specific needs, such as:

- Easy cleaning of the machine thanks to its smooth surfaces, the limited amount of interstices, the high position of the electrical parts and/or their protection against liquid spills.
- Ergonomic mechanical parts, easy format change, repeatable settings.
- Noble materials, especially stainless steel (AISI 304 or 316).
- The integration of label printing devices with essential, sensible data (batches, sell-by dates), by means of hot foil or thermal transfer printing units.
- The integration of sensors for correct application, overprinting performed and labelling performed checking.
- The integration of an in-built control system equipped with a Siemens S7-300 PLC and a touchscreen interface which manages all functions of the machine and its checking devices.
- The possibility of certifying the machine as per GAMP 4 (IQ/OQ/PQ) validation process, with the provision of the related documents and the performance of tests (FAT, SAT) according to these procedures.

The ALpharma models are:

- ALpharma A, for labelling vials and small bottles. The labelling is performed from tray to tray, “in the starwheel”.
- Up to 150 products/min.
- ALpharma B, for labelling shaped cases, with both bar code labels (tags, vignettes) and tamper evident angle labels folded along the flaps (up to 200 products/min).
- ALpharma C, for inline wrap-around labelling of small, cylindrical bottles. Up to 250 products/min.
Options

- Thermal transfer overprinting
- Checking device for near end of reel and rewinder full
- Checking device for near products
- Checking device for bar codes
- Checking device for performed and/or correct overprinting by means of mark readers or a video-camera
- Checking device for performed labelling by means of luminescence sensors or a video camera
- Ejection of non compliant products with checking device for performed ejection and rejects box full
- Management of formats and management of alarms and rejects log
SELF-ADHESIVE LABELLING SYSTEM
SIRIUS

The incorporation of the very latest in control technology, enables Sirius to handle a wide variety of product and label shapes making it the most versatile, user-friendly, efficient and highly accurate labelling system. Packed with the latest technology for even greater production line benefits. Sirius has been designed to meet the most stringent GMP requirements as well as addressing MTBF (Mean Time Between Failure) and MTTR (Mean Time To Repair) needs.

Enhanced features
- Motion control system provides increased labelling accuracy coupled with absolute speed matching to cope with variable speed demands of today's packaging lines.
- Enhanced control system incorporating single touchscreen user interface provides a very high level of user diagnostics.
- The unique software enables quick set-up times between product changeover and is self-monitoring to provide optimum reliability.
- This reduces the skill level required for operation and maintenance.
- Increased cabinet space allows for greater flexibility for future upgrades.
- Fully integrated inspection systems to identify label and/or overprint presence; barcode readability is available and easily incorporated. Also available is the integration of a vision system capable of identifying label position on the product plus the correct lot/expiration data.
- Modularised transmission system utilising the latest technology ensures that the Sirius provides the optimum level of flexibility and reliability for all current and future labelling requirements.
- These next generation of Harland Sirius features are also incorporated in the Tamper Evident (TE), Twin Side Belt (TSB), Top/Bottom and Vertical Roller Stabiliser (VRS) labellers.
Technical specifications

- Base Unit: Stainless steel unit, available with one or two label stations
- Infeed Unit: Single scroll, twin scroll, infeed wheel, orientation units for aligning ovals
- Label Head: Label head speed up to 28.5m/min. Stepper motor driven motion controlled
- Stabiliser: Horizontally mounted 935mm long servo driven unit
- Conveyor: 2438mm long, 82.5mm
- Delryn slatband
- Finishing Units: Non-driven and driven wipedown rollers, wrap-around unit, walking beam
- Overprint Unit: Hot foil, deboss, thermal transfer, inkjet and laser coders
- Ancillary Equipment: A wide range is available including - product and label counters, infeed/outfeed monitoring controls and pharmaceutical security systems
- Capacities: As standard
- Speed: Up to 300ppm (subject to application)
- Product:
  - Max - Minimum Height 350mm - 20mm
  - Max - Minimum Width 200mm - 15mm
  - Max diameter with full wrap-around -100mm
- Label:
  - Max - Minimum Web Width 155mm - 13mm
  - Max - Minimum Label Length 330mm - 10mm
  - Max Reel OD 400mm
  - Nominal Reel ID 76mm
  - NB: 265mm web width available as an option at extra cost. Increased cabinet space allows for greater flexibility for future upgrades

- Electricity Supply: 220V/240V single phase AC, 50/60Hz. Special electrical options available on request

- Air Supply: Air required for some overprinters and security systems

- Dimensions: See diagram

- Weight: As standard 320kg
The 'Mercury' is the latest development in the Harland Linear Series of labelling systems. The system has been designed for production lines that have a high throughput speed requirement and the need for zero downtime production. This four or two station system can apply front and back labels to any shape of plastic bottle/container at speeds up to 250ppm and fits nicely in the Harland family of labellers, between the wellproven Sirius system and ultra high-speed Titan.

**Enhanced features**

- Quick and easy changeover between different products is provided by the use of retractable labelling heads that swing out easily when splicing, replenishing or changing label reels; thus minimising line downtime. Further enhanced by colour-coded changeparts.
- Heavy-duty linear modular construction reducing maintenance and changeover costs. Also vital in relation to ease of repairs and servicing. Easily integrated into existing production lines.
- Enhanced control system incorporating single touchscreen user interface provides a very high level of user diagnostics. The unique software enables quick set-up times between product changeover and is self-monitoring to provide optimum reliability and operational efficiency.
- Innovative wipedown module ensures labels are efficiently smoothed to exactly and accurately match the contours of even the most challenging containers and bottles. Optional product handling pucks are available for correctly presenting the most complex of shapes.
- Fully integrated inspection/vision systems provide detection for label verification and presence, accuracy of position and alignment, barcode reading, evaluation and verification.
Technical specifications

- Base Unit: Stainless steel unit, available with two or four label stations
- Infeed Unit: Single scroll, twin scroll, infeed wheel, and/or centering units
- Label Head: Motion controlled with stepper and servo motor options
- Stabiliser: Horizontally mounted servo driven unit
- Conveyor: 4500mm-5000mm long, 82.5mm Delryn slatband
- Finishing Units: Servo-driven walking beam, powered wipedown rollers
- Overprint Unit: Hot foil, deboss, thermal transfer, inkjet and laser coders
- Ancillary Equipment: A wide range is available including – product and label counters, infeed/outfeed monitoring controls. Pharmaceutical security system. Integral vision system with single point interface
- Capacities: As standard
- Speed: Up to 250ppm (subject to application)
- Product:
  - Max - Minimum Height 425mm - 20mm
  - Max - Minimum Width 100mm - 15mm
- Label:
  - Max - Minimum Web Width 155mm - 265mm
  - Max - Minimum Label Length 330mm - 10mm
- Max Reel OD: 400mm
- Nominal Reel ID: 76mm
- Electrical Supply: 220/240V Single Phase AC, 50/60Hz subject to validation
- Weight: As standard 700kg
Pyrotec PackMark supplies manual or semi-auto labellers for even the smallest manufacturer at an affordable price.

**ELDH**

The ELDH SERIES 2 AUTO applicator is a compact and low-cost automatic labeler for self-adhesive labels. Labelling speeds of up to 35 labels per minute can be attained, depending upon label size. This applicator is capable of dispensing labels from 20mm X 20mm minimum size to 100mm X 100mm maximum size.

**ELECTRICAL**
- Power: 360 W
- Frequency: 50Hz
- Current: 1,5 A
- Voltage: 240 V
- Phase: single

**MECHANICAL**
- Dimensions: 500mm wide x 700mm long x 320mm high
- Approx Weight (excl bracket): 6,7 kg
- Diameter of reel of labels: 220mm
The Hand Wooden Labeller (HWL), designed and manufactured by Pyrotec PackMark, is the most cost-effective self-adhesive labeller available. Labelling front and back labels quickly and accurately, the HWL ensures a professional appearance of any round glass or plastic container. This low maintenance machine is ideal for industries with small production runs.

VIEW ONLINE
Bottle-Matic is the perfect machine for labelling cylindrical objects and saving time! It can be used to apply either single or double sided labels to round containers. This unit is great for short run wine and beer labelling as well as jellies, jams, sauces, and spice containers. It can wrap bottles, cans, tubes and jars by simply pressing the footswitch. Tapered objects can also be done without any customisation.

Technical specifications

- 250mm or 400mm width cylinder labelling machine
- Label objects fast and accurately FRONT and BACK
- 12.5mm to 250mm diameter at speeds of 1,200 pieces per hour
- Photoelectric sensor with patented IR pulsing technology
- Complete changeover in under two minutes
- Fine adjustments for tapers

Dispensamatic Bottle-matic 10
ACCESSORIES
Pyrotec PackMark offers a comprehensive range of accessories to meet your printing and labelling needs. Decades of experience ensures that you get the best quality accessories available, ensuring optimal performance for your printers and labellers.

**Height adjustment stand**  
Purpose: Free-standing mount to get machine to height required – fully adjustable.

**Mounting brackets**  
Purpose: Manufactured or modified to suit any application.

**Maintenance tray**  
Purpose: To ensure a clean environment away from production.

**Product identification accessories**  
Sensors/Scanners/Cameras  
Purpose: Various options to address varying applications.

**Encoder**  
Purpose: It converts information from one format to another to ensure line speed is maintained.

**Alarm beacon**  
Purpose: To signal status of operation and notify the operator of faults.
Service
In this industry, machine downtime means a waste of valuable time and money. Machine uptime is dependent on quick and efficient installations, superb services and speedy response to breakdowns.

Technical expertise
We have more than 40 years of experience in service and technical expertise needed to successfully install and service its equipment. Our technicians constantly have updated their installation, service and repair skills by experts from our principals.

Accessibility and back-up
The hallmark of our technical support is your accessibility through a toll free technical support helpline (0800 202 574) operational 24/7/365 for all machine technical related queries. The technicians are supported by specially trained product champions based in South Africa which has behind them direct access to Global Indirect Distribution Support (GIDS), based in France, the Netherlands and UK.

Contracts
Short and long term Maintenance Contracts, SLA’s (Service Level Agreements) & OSS (Onsite Service Support) are available and are customised to your specific requirements.

Spares
Pyrotec PackMark stocks a comprehensive range of spares in all major centres.
CONSUMABLES
Pyrotec PackMark provides a full range of superior consumables based on sound research by chemists based on our principles. These are manufactured specially to work best with the equipment, ensuring durability and long-life.

Benefits of using manufacturer’s consumables

EXTENSIVE RANGE
A wide range of consumables is available for marking and coding all types of primary and secondary packaging.

PERFORMANCE AND RELIABILITY
Products have been extensively tested to ensure optimal performance. The entire process, from initial formulation, manufacturing to end sale, is carefully monitored.

FLEXIBILITY
Depending on the application, our principles provide different technologies using different consumables ranging from ketone/alcohol/water-based inks, Touch Dry® Hot Melt inks to thermal transfer ribbons. A wide choice of options, within each technology, exists to allow end-users to meet branding requirements.

REGULATION COMPLIANCE
Genuine consumables provided by our principals comply with industry specific regulations such as food grade, RoHS, Sony Green partner and many others.

EFFICIENCY
On-site application and chemistry support helps you pair the correct consumables with the right printer to meet every application and optimise customer processes.

SAFETY
Every production site is compliant with the best local practices and safety standards. Transportation and manufacturing processes are all ISO 9001 and ISO 14001 certified. Packaging ergonomics have all been designed for enhanced operator safety.

STORAGE
Pyrotec PackMark has hazardous substance warehouses in Cape Town and Johannesburg.
Pyrotec PackMark offers a comprehensive range of consumables to meet your every printing need. Decades of experience formulating, manufacturing and selling inks ensures that you get the highest quality inks available in the market and optimal performance with our printers.

• Certified as a Sony Green Partner Supplier
• RoHS compliant
• All production sites comply with local regulations, industry standards and best practices
• Proactive monitoring and management of changes to environmental and regulatory issues

**Inks for CIJ**

• Designed to print on all types of substrates from standard to high performance applications (food grade, sterilisation, UV cure, egg coding, etc.)
• Available in ketone, alcohol, water-based, ketone-free, MEK-free
• Available in a wide variety of colours
• Regulations compliant (RoHS, Sony Green Partner, etc.)

**Touch Dry® Hot Melt Inks**

• Available for large character and small character inkjet printers
• Touch Dry® technology – solid at room temperature and prints are immediately dry after printing
• Designed to print on a wide range of applications and substrates
• Regulations compliant (RoHS, Sony Green Partner, etc.)
Inks for Secondary Coding
• Designed to print on all types of secondary packaging. Available in alcohol, ethyl acetate and water-based.
• Available in a wide range of colours.
• Regulations compliant (RoHS, Sony Green Partner, etc.)

Thermal Transfer Ribbons for the SmartDate, CimPak, CimJet, 2200 Pallet and 2200 Series
• A wide range of approved high-quality thermal transfer ribbons for both flat and near edge printheads.
• Designed to meet tough and demanding industrial printing applications.
• All ribbons undergo extensive testing to ensure optimal performance with our printers.
• Regulations compliant (RoHS, Sony Green Partner, etc.)

Labels
Pyrotec PackMark supplies labels for its range of Print & Apply labellers. These on specification labels are designed to work perfectly with our thermal transfer ribbon. To make sure your application works correctly, roll sizes are coordinated with ribbon length to maximise uptime during changeover.

Combo Pack of Print & Apply 2200 Series
Pyrotec PackMark can supply labels and TTR (Thermal Transfer Ribbon) to you in a combo pack. The labels and TTR are the same length so that they can be changed at the same time. The combo pack also includes a printhead wipe to clean the printhead at the same time the label sand TTR changeover is taking place.
# 24/7 FREE Technical Support Helpline

**0800 202 574**

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
<th>Telephone</th>
<th>Fax</th>
<th>Email</th>
</tr>
</thead>
<tbody>
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<td>+260 975 740 781</td>
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<td><a href="mailto:joshua@capstonetechno.com">joshua@capstonetechno.com</a></td>
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</tbody>
</table>
Pyrotec PackMark is the sole distributor of Markem-Imgae equipment in the following countries: South Africa, Zimbabwe, Botswana, Zambia, Swaziland, Lesotho, Namibia and Mozambique.

We also distribute ALTech equipment, Harlands Accraply Europe Ltd. and Anser in South Africa, Zimbabwe, Namibia, Botswana, Mozambique, Swaziland, Lesotho, Zambia, Malawi, Tanzania, Angola, Mauritius and Madagascar.

FOR ENQUIRIES CONTACT US ON:
sales@pyrotec.co.za or packmark@pyrotec.co.za or tel +27 (0) 21 787 9600.