4020

Our technology ▪ ▪ ▪

The 4020's patented and proven drop-on-demand valvejet technology and its unique design allow for both impeccable coding and easy integration onto all manufacturing lines.

Characterized by its compact size, it is perfect for multi-side case coding for up to 2-3 shifts.
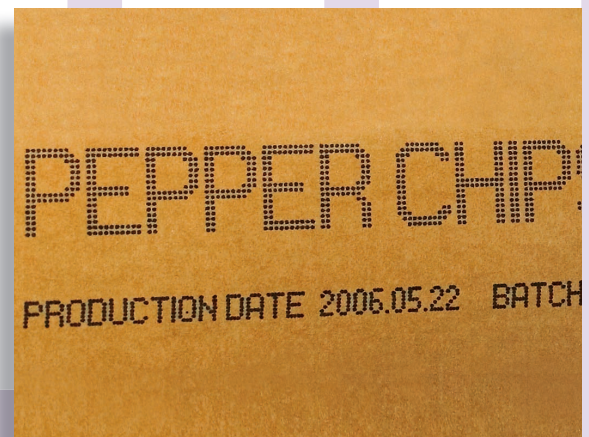
Your benefits ▪ ▪ ▪

Simplicity – Large graphic display with print preview, intuitive interface in local language and interactive operation assistance including height adjustment for trouble-free operations.

Performance – Constant and excellent print quality up to 20 mm marking distance. Print speed up to 90 m/min.

Uptime – Large containers available for maximum uptime and low ink level alert for real-time status information.

Flexibility – Up to 4 printheads per controller, 7 or 16 nozzle printheads in any combination and print heights from 8 mm to 64 mm. Choice of black and colour inks for both porous and non-porous substrates.

Connectivity – Standard ethernet connection, 2 high speed RS232 com ports, ActiveX component and optional digital I/O box for easy integration.
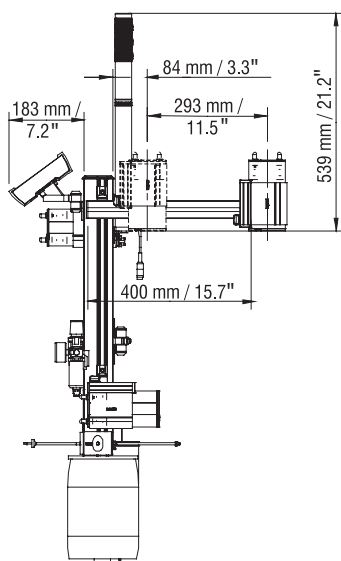
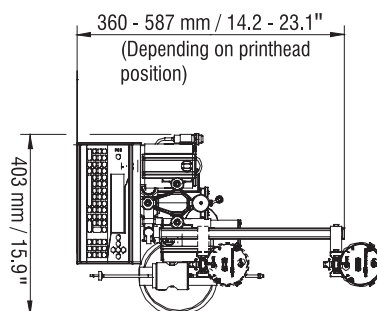# markem·imaje

the team to trust ▪ ▪ ▪

Print features ▪ ▪ ▪

- Up to 4 printheads per controller
- 7 nozzle printhead; 1-line of text; 16 nozzle printhead; 1 or 2 lines of text
- Print height; 8 mm to 64 mm
- Prints alphanumeric text including: time, date, 2 expiration dates, shift code, 3 counters (automatic numbering), user prompt, external variables and bitmap files
- Prints more than 22,000 Unicode characters (Arabic, Cyrillic, Chinese, Greek, Hebrew, Kanji, Katakana and Latin)
- Message length up to 5,000 characters
- Character width can be adjusted
- Adjustable print delay for message placement
- Print positioning on cases includes: top, side, opposite side and bottom
- Up to 20 mm "throw-distance" between the printhead and substrate
- Standard or upside down printing, bi-directional printing; both from the right and left
- Print speed up to 90 m/min

Operations ▪ ▪ ▪

- Single button printer activation and deactivation
- Intuitive operator interface; icons with help text
- Graphic 240 x 64 pixel backlit display
- Interface available in 28 languages: Arabic, Brazilian, Bulgarian, Chinese (simplified), Chinese (traditional), Croatian, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Norwegian, Polish, Portuguese, Romanian, Russian, Slovenian, Spanish, Swedish, Turkish
- Storage capacity; up to 800 messages (may vary depending on message size)
- Integrated "help file" for easy user navigation and operation
- Automatic printhead detection with hot-swap functionality
- Status indicator LEDs
- Availability of inks include: water-based (porous), alcohol based (semi-porous) and ethyl acetate-based (non-porous)
- Inks are available in black, blue, red and green
- Pressurized ink system; 4.5 l, 18.9 l and 30 l barrels
- 2 RS-232 com ports, COM1 RJ45 and COM2 9 pin D-sub, up to 115,200 baud
- LAN (Ethernet), RJ45, 10/100 Mbps
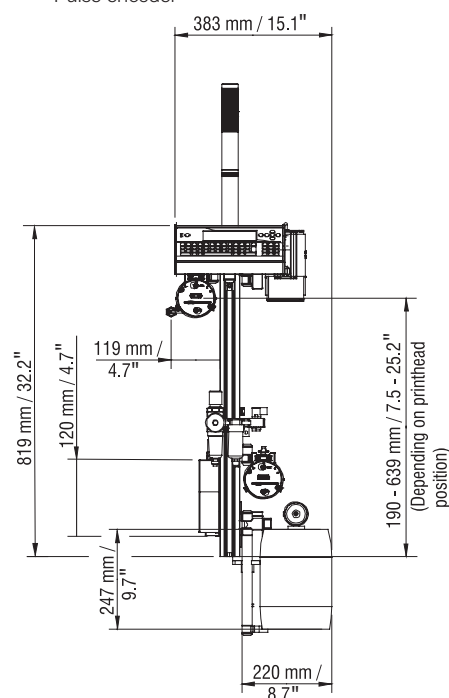- FTP server for easy back-up and file transfer

Other characteristics ▪ ▪ ▪

- Weight: controller:
  - 1.19 kg
  - 7N printhead: 0.46 kg
  - 16N printhead: 0.89 kg
- Support beam with cable slot
- Operating temperature range: 5°C to 40°C
- Humidity: 20 % to 90 %, non-condensing
- Electrical power supply:
  - 1 or 2 head systems: input 100-240 V AC, 50-60 Hz, 1.9 A; output 24 V DC, 3 A
  - 3 or 4 head systems: 100-240 V AC, 50-60 Hz, 3 A; output 24 V DC, 5 A

Accessories ▪ ▪ ▪

- Status beacon
- Extension arm for long-reach printhead mounting and top/bottom printing
- Photo sensor (standard or reflective)
- Air pump kit
- Regulator for compressed air
- Pulse encoder

183 mm / 7.2"
84 mm / 3.3"
293 mm / 11.5"
539 mm / 21.2"
400 mm / 15.7"

360 - 587 mm / 14.2 - 23.1"
(Depending on printhead position)
403 mm / 15.9"

383 mm / 15.1"
819 mm / 32.2"
120 mm / 4.7"
119 mm / 4.7"
247 mm / 9.7"
190 - 639 mm / 7.5 - 25.2" (Depending on printhead position)
220 mm / 8.7"

To learn more visit, www.markem-imaje.com

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