

# Printing capabilities of small character inkjet printers



9000 Series ■ ■ ■



## Marking and coding ■ ■ ■

The continuous inkjet technology prints best before dates, logos, alphanumeric text and 1D and 2D barcodes for food, beverage, pharmaceutical, cosmetic, electronic, cable and extrusion industries.

## Performance ■ ■ ■

**Printhead** – Single or twin-jet printhead. Single or dual printhead systems. Three printing resolutions: G head (71 dpi), M head (115 dpi) and P head (178 dpi).

**Message** – Up to 8 lines of text. Font sizes from 5 dots to two 24-dot lines. Character height from 0.7 mm to 18.2 mm.

**Print speed** – Up to 5.5 m/s (1,090 ft/min)

**Alphabets** – Wide selection of characters (Latin, Eastern Europe, Arabic, Cyrillic, Greek, Japanese, Chinese, Hebrew, Korean, etc.)

**Substrates** – Printing on several types of substrates like plastics, glass, metal, cardboard and directly onto food.

**Inks** – Wide choice of black and colored inks (ketone/alcohol/water-based) designed for general purposes as well as very specific applications.



markem·image

the team to trust ■ ■ ■

## How to read the chart ■ ■ ■

### Speed modes

The chart presents 2 modes:

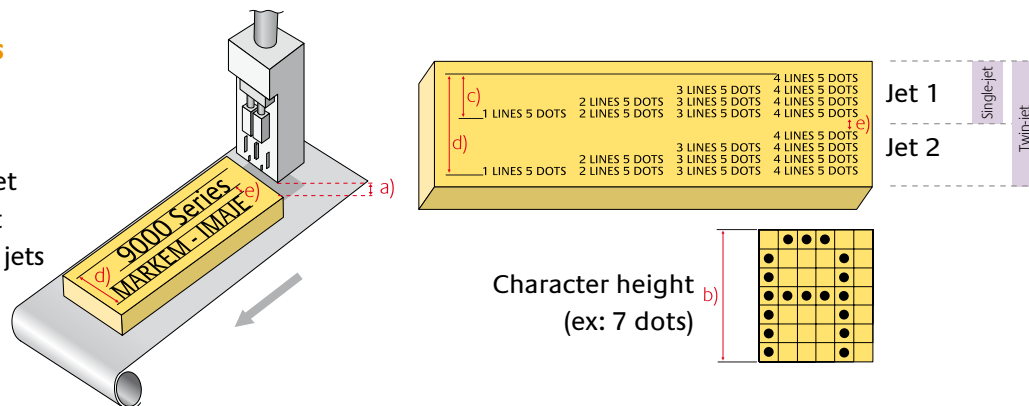
- Standard speed mode for the best balance between printing quality and printing speed
- High speed mode for the best printing speed

Other printing speeds available on demand. Please contact your local sales representative.

### Message characteristics

- a) Head / Object distance
- b) Character height (dot)
- c) Message height, single-jet
- d) Message height, twin-jet
- e) Minimum space between jets

Example: twin-jet



## G head – Printing resolution: 2.8 dots/mm (71 dpi) ■ ■ ■

| Speed mode     | Head / Object distance (a) | Character height (dot) (b) | No. of lines per jet | Message height (mm) |                | Max printing speed |          | Algorithm no. | 9020 ** | 9030 9030 IP65 | 9040 9040 IP65 9040 Contrast |
|----------------|----------------------------|----------------------------|----------------------|---------------------|----------------|--------------------|----------|---------------|---------|----------------|------------------------------|
|                |                            |                            |                      | Single-jet (c)      | Twin-jet * (d) | m/s                | feet/min |               |         |                |                              |
| Standard speed | 10 mm                      | 5                          | 1                    | 1.8                 | 11.3           | 1.860              | 366.14   | 93            | •       | •              | •                            |
|                |                            | 5                          | 2                    | 3.9                 | 13.4           | 0.930              | 183.07   | 94            | •       | •              | •                            |
|                |                            | 5                          | 3                    | 6.5                 | 16             | 0.558              | 109.84   | 212           | •       | •              | •                            |
|                |                            | 5                          | 4                    | 8.7                 | 18.2           | 0.372              | 73.23    | 12            | •       | •              | •                            |
|                |                            | 7                          | 1                    | 2.6                 | 12.1           | 1.395              | 274.61   | 4             | •       | •              | •                            |
|                |                            | 7                          | 2                    | 5.8                 | 15.3           | 0.657              | 129.33   | 96            |         |                | •                            |
|                |                            | 7                          | 3                    | 8.7                 | 18.2           | 0.372              | 73.23    | 12            | •       | •              | •                            |
|                |                            | 9                          | 1                    | 3.2                 | 12.7           | 1.116              | 219.69   | 19            | •       | •              | •                            |
|                |                            | 9                          | 2                    | 7.9                 | 17.4           | 0.429              | 84.45    | 97            |         |                | •                            |
|                |                            | 11                         | 1                    | 3.9                 | 13.4           | 0.930              | 183.07   | 20            | •       | •              | •                            |
|                |                            | 11                         | 2                    | 8.7                 | 18.2           | 0.372              | 73.23    | 12            | •       | •              | •                            |
|                |                            | 16                         | 1                    | 5.8                 | 15.3           | 0.603              | 118.70   | 5             | •       | •              | •                            |
|                |                            | 16                         | 1                    | 5.8                 | 15.3           | 0.698              | 137.40   | 294           |         |                | •                            |
|                |                            | 24                         | 1                    | 8.7                 | 18.2           | 0.372              | 73.23    | 12            | •       | •              | •                            |
|                |                            | 24                         | 1                    | 8.7                 | 18.2           | 0.465              | 91.54    | 280           |         |                | •                            |
|                | 30 mm                      | 5                          | 1                    | 1.8                 | 11.3           | 0.970              | 190.94   | 13            | •       | •              | •                            |
|                |                            | 7                          | 1                    | 2.6                 | 12.1           | 0.970              | 190.94   | 13            | •       | •              | •                            |
|                |                            | 7                          | 2                    | 5.8                 | 15.3           | 0.392              | 77.17    | 14            | •       | •              | •                            |
|                |                            | 11                         | 1                    | 3.9                 | 13.4           | 0.392              | 77.17    | 14            | •       | •              | •                            |
|                |                            | 16                         | 1                    | 5.8                 | 15.3           | 0.392              | 77.17    | 14            | •       | •              | •                            |
| High speed     | 10 mm                      | 24                         | 1                    | 8.7                 | 18.2           | 0.372              | 73.23    | 51            | •       | •              | •                            |
|                |                            | 5 <sup>(1)</sup>           | 1                    | 1.8                 | 11.3           | 5.580              | 1098.43  | 32            |         | •              | •                            |
|                |                            | 5 <sup>(3)</sup>           | 1                    | 1.8                 | 11.3           | 4.464              | 878.74   | 1             | •       | •              | •                            |
|                |                            | 5                          | 2                    | 3.9                 | 13.4           | 2.029              | 399.41   | 48            | •       | •              | •                            |
|                |                            | 5                          | 3                    | 6.8                 | 16.3           | 1.395              | 274.61   | 30            | •       | •              | •                            |
|                |                            | 5                          | 4                    | 8.7                 | 18.2           | 0.930              | 183.07   | 41            | •       | •              | •                            |
|                |                            | 7 <sup>(2)</sup>           | 1                    | 2.6                 | 12.1           | 3.720              | 732.28   | 31            | •       | •              | •                            |
|                |                            | 7 <sup>(3)</sup>           | 1                    | 2.6                 | 12.1           | 3.189              | 627.76   | 2             | •       | •              | •                            |
|                |                            | 7                          | 2                    | 5                   | 14.5           | 1.488              | 292.91   | 47            | •       | •              | •                            |
|                |                            | 7                          | 3                    | 8.7                 | 18.2           | 1.015              | 199.80   | 40            | •       | •              | •                            |
|                |                            | 7                          | 4                    | 9                   | -              | 0.603              | 118.70   | 50            | •       | •              | •                            |
|                |                            | 9                          | 1                    | 3.2                 | 12.7           | 2.232              | 439.37   | 46            | •       | •              | •                            |
|                |                            | 9                          | 2                    | 7.9                 | 17.4           | 1.116              | 219.69   | 86            |         |                | •                            |
|                |                            | 11                         | 1                    | 3.9                 | 13.4           | 1.860              | 366.14   | 11            | •       | •              | •                            |
|                |                            | 11                         | 2                    | 8.7                 | 18.2           | 0.797              | 156.89   | 43            | •       | •              | •                            |
|                |                            | 16                         | 1                    | 5.8                 | 15.3           | 1.313              | 258.46   | 3             | •       | •              | •                            |
|                |                            | 18                         | 1                    | 6.5                 | 16             | 1.175              | 231.30   | 208           |         |                | •                            |
|                |                            | 20                         | 1                    | 7.2                 | 15.2           | 0.893              | 175.79   | 216           |         |                | •                            |
|                |                            | 24                         | 1                    | 8.7                 | 18.2           | 0.797              | 156.89   | 43            | •       | •              | •                            |

(1) 4-dot full raster

(2) 6-dot full raster

(3) Recommended for pigmented inks

\* Minimum space between jets: 0.8 mm (e)

\*\* Available on single-jet only

## M head - Printing resolution: 4.5 dots/mm (115 dpi) ■ ■ ■

| Speed mode     | Head/ Object distance (a) | Character height (dot) (b) | No. of lines per jet | Message height (mm) |                | Max printing speed |          | Algorithm no. | 9030 9030 IP65 | 9040 9040 IP65 9040 Contrast | 9040 S** |
|----------------|---------------------------|----------------------------|----------------------|---------------------|----------------|--------------------|----------|---------------|----------------|------------------------------|----------|
|                |                           |                            |                      | Single-jet (c)      | Twin-jet * (d) | m/s                | feet/min |               |                |                              |          |
| Standard speed | 8 mm                      | 5                          | 1                    | 1.1                 | 10.6           | 1.684              | 331.50   | 61            | •              | •                            |          |
|                |                           | 5                          | 2                    | 2.6                 | 12.1           | 0.529              | 104.13   | 200           | •              | •                            |          |
|                |                           | 5                          | 3                    | 3.8                 | 13.3           | 0.349              | 68.70    | 227           | •              | •                            |          |
|                |                           | 5                          | 4                    | 5.3                 | 14.9           | 0.237              | 46.65    | 16            | •              | •                            |          |
|                |                           | 7                          | 1                    | 1.6                 | 11.1           | 0.805              | 158.46   | 8             | •              | •                            |          |
|                |                           | 7                          | 2                    | 3.6                 | 13.1           | 0.394              | 77.56    | 201           |                | •                            |          |
|                |                           | 7                          | 3                    | 5.3                 | 14.9           | 0.237              | 46.65    | 16            | •              | •                            |          |
|                |                           | 9                          | 1                    | 2                   | 11.5           | 0.639              | 125.79   | 21            |                | •                            |          |
|                |                           | 9                          | 2                    | 5.3                 | 14.9           | 0.237              | 46.65    | 16            | •              | •                            |          |
|                |                           | 11                         | 1                    | 2.5                 | 12             | 0.529              | 104.13   | 22            | •              | •                            |          |
|                |                           | 11                         | 2                    | 5.3                 | 14.9           | 0.237              | 46.65    | 16            | •              | •                            |          |
|                |                           | 16                         | 1                    | 3.6                 | 13.1           | 0.370              | 72.83    | 9             | •              | •                            |          |
|                |                           | 24                         | 1                    | 5.3                 | 14.9           | 0.237              | 46.65    | 16            | •              | •                            |          |
|                | 20 mm                     | 5                          | 1                    | 1.1                 | 10.6           | 0.579              | 113.98   | 17            | •              | •                            |          |
|                |                           | 7                          | 1                    | 1.6                 | 11.1           | 0.579              | 113.98   | 17            | •              | •                            |          |
|                |                           | 7                          | 2                    | 3.6                 | 13.1           | 0.237              | 46.65    | 23            | •              | •                            |          |
|                |                           | 11                         | 1                    | 2.5                 | 12             | 0.386              | 75.98    | 18            | •              | •                            |          |
|                |                           | 16                         | 1                    | 3.6                 | 13.1           | 0.237              | 46.65    | 23            | •              | •                            |          |
|                |                           | 24                         | 1                    | 5.3                 | 14.9           | 0.237              | 46.65    | 23            | •              | •                            |          |
| High speed     | 8 mm                      | 5 <sup>(1)</sup>           | 1                    | 1.8                 | 11.3           | 5.952              | 1171.65  | 45            | •              | •                            |          |
|                |                           | 5 <sup>(5)</sup>           | 1                    | 1.2                 | 10.7           | 3.703              | 728.94   | 42            | •              | •                            |          |
|                |                           | 5 <sup>(4)</sup>           | 1                    | 1.2                 | 10.7           | 3.086              | 607.48   | 6             | •              | •                            |          |
|                |                           | 5 <sup>(1)</sup>           | 2                    | 1.8                 | 11.3           | 2.289              | 450.59   | 49            | •              | •                            |          |
|                |                           | 5                          | 3                    | 3.8                 | 13.3           | 0.926              | 182.28   | 35            | •              | •                            |          |
|                |                           | 5                          | 4                    | 5.3                 | 14.9           | 0.712              | 140.16   | 37            | •              | •                            |          |
|                |                           | 7 <sup>(1)</sup>           | 1                    | 2.6                 | 12.1           | 3.720              | 732.28   | 44            | •              | •                            |          |
|                |                           | 7 <sup>(1)</sup>           | 1                    | 2.6                 | 12.1           | 4.252              | 837.01   | 79            |                | •                            |          |
|                |                           | 7 <sup>(2)</sup>           | 1                    | 1.6                 | 11.1           | 2.646              | 520.87   | 33            | •              | •                            |          |
|                |                           | 7 <sup>(4)</sup>           | 1                    | 1.6                 | 11.1           | 2.315              | 455.71   | 7             | •              | •                            |          |
|                |                           | 7 <sup>(3)</sup>           | 1                    | 2.4                 | 5.8            | 2.778              | 546.85   | 87            |                |                              | •        |
|                |                           | 7 <sup>(1)</sup>           | 2                    | 5.3                 | 14.9           | 1.750              | 344.48   | 204           |                | •                            |          |
|                |                           | 7                          | 3                    | 5.3                 | 14.9           | 0.712              | 140.16   | 36            | •              | •                            |          |
|                |                           | 7                          | 4                    | 6                   | -              | 0.378              | 74.41    | 53            |                | •                            |          |
|                |                           | 9                          | 1                    | 2.5                 | 12             | 1.425              | 280.51   | 15            | •              | •                            |          |
|                |                           | 9                          | 2                    | 5.3                 | 14.9           | 0.597              | 117.52   | 38            | •              | •                            |          |
|                |                           | 11                         | 1                    | 2.5                 | 12             | 1.425              | 280.51   | 15            | •              | •                            |          |
|                |                           | 11 <sup>(1)</sup>          | 1                    | 3.9                 | 13.4           | 1.860              | 366.14   | 81            |                | •                            |          |
|                |                           | 11                         | 2                    | 5.3                 | 14.9           | 0.597              | 117.52   | 38            | •              | •                            |          |
|                |                           | 16                         | 1                    | 3.6                 | 13.1           | 0.975              | 191.93   | 10            | •              | •                            |          |
|                |                           | 16 <sup>(1)</sup>          | 1                    | 5.8                 | 15.3           | 1.098              | 216.14   | 82            |                | •                            |          |
|                |                           | 18                         | 1                    | 4                   | 13.5           | 0.926              | 182.28   | 214           |                | •                            |          |
|                |                           | 24                         | 1                    | 5.3                 | 14.9           | 0.597              | 117.52   | 38            | •              | •                            |          |

(1) Vertical resolution: 2.8 dots/mm

(2) 6-dot full raster

(3) Head-object distance: 14 mm

(4) Recommended for pigmented inks

(5) 4-dot full raster

\* Minimum space between jets: 4.2 mm (e)

\*\* Available on twin-jet only

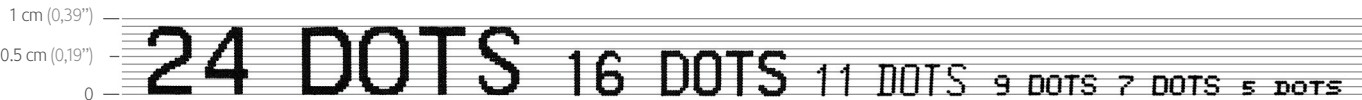
P head - Printing resolution: 7 dots/mm (178 dpi)■■■

| Speed mode     | Head/ Object distance (a) | Character height (dot) (b) | No. of lines per jet | Message height (mm) (c) | Max printing speed |          | Algorithm no. | 9040 |
|----------------|---------------------------|----------------------------|----------------------|-------------------------|--------------------|----------|---------------|------|
|                |                           |                            |                      |                         | m/s                | feet/min |               |      |
| Standard speed | 6 mm                      | 5                          | 1                    | 0.7                     | 1.05               | 206.69   | 88            | •    |
|                |                           | 5                          | 2                    | 1.6                     | 0.51               | 100.39   | 91            | •    |
|                |                           | 5                          | 3                    | 3.5                     | 0.39               | 76.38    | 274           | •    |
|                |                           | 5                          | 4                    | 3.5                     | 0.29               | 57.68    | 275           | •    |
|                |                           | 7                          | 1                    | 1                       | 0.78               | 152.76   | 89            | •    |
|                |                           | 7                          | 2                    | 2.3                     | 0.36               | 70.28    | 92            | •    |
|                |                           | 7                          | 3                    | 3.5                     | 0.28               | 54.92    | 273           | •    |
|                |                           | 9                          | 1                    | 1.3                     | 0.62               | 121.26   | 90            | •    |
|                |                           | 9                          | 2                    | 3.5                     | 0.23               | 45.08    | 72            | •    |
|                |                           | 11                         | 1                    | 1.6                     | 0.51               | 100.39   | 91            | •    |
|                |                           | 11                         | 2                    | 3.5                     | 0.23               | 45.08    | 72            | •    |
|                |                           | 16                         | 1                    | 2.3                     | 0.36               | 70.28    | 92            | •    |
| High speed     | 6 mm                      | 24                         | 1                    | 3.5                     | 0.23               | 45.08    | 72            | •    |
|                |                           | 5                          | 1                    | 0.7                     | 1.79               | 351.57   | 62            | •    |
|                |                           | 5                          | 2                    | 1.6                     | 0.89               | 175.79   | 67            | •    |
|                |                           | 5                          | 3                    | 2.4                     | 0.60               | 117.13   | 68            | •    |
|                |                           | 5                          | 4                    | 3.7                     | 0.45               | 87.80    | 69            | •    |
|                |                           | 7                          | 1                    | 1                       | 1.28               | 251.18   | 63            | •    |
|                |                           | 7                          | 2                    | 2.3                     | 0.64               | 125.59   | 70            | •    |
|                |                           | 7                          | 3                    | 3.7                     | 0.43               | 83.66    | 71            | •    |
|                |                           | 9                          | 1                    | 1.3                     | 0.99               | 195.28   | 64            | •    |
|                |                           | 11                         | 1                    | 1.6                     | 0.81               | 159.84   | 65            | •    |
|                |                           | 16                         | 1                    | 2.3                     | 0.56               | 109.84   | 66            | •    |
|                |                           | 24                         | 1                    | 3.4                     | 0.23               | 45.08    | 72            | •    |

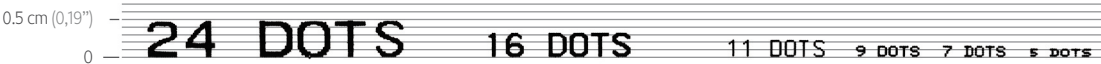
P head, available on 9040 single-jet version only

Printing examples of G, M and P heads■■■

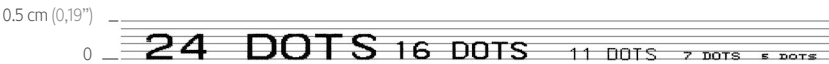
G head



M head



P head



Alphabets■■■

Character height in dots

|          | 5 | 7 | 9 | 11 | 16 | 24 |
|----------|---|---|---|----|----|----|
| Latin    | • | • | • | •  | •  | •  |
| Arabic   | • | • | • | •  | •  | •  |
| Chinese  | • | • | • | •  | •  | •  |
| Russian  | • | • | • | •  | •  | •  |
| Greek    | • | • | • | •  | •  | •  |
| Hebrew   | • | • | • | •  | •  | •  |
| Japanese | • | • | • | •  | •  | •  |
| Korean   | • | • | • | •  | •  | •  |
| Thai     | • | • | • | •  | •  | •  |

Japanese

-----原材料名-----  
米粉・砂糖・卵黄  
賞味期限 08.09.30  
製造年月 08.02.15  
製造所固有記号 BM36/4

Arabic

انتاج : ٠٨/٠٩/٢٠٠٨  
انتهاء : ٠٨/٠٢/٢٠٠٨  
السعر ٣٢٠ فلي  
حليب

Chinese

生产日期 2012-01-21  
保质期 2012-07-20  
(FU) 合格

Russian

АТА МБГ. 1452  
ГОАЕВ АО 12.05.

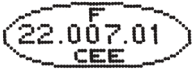
Korean

책임 : 전성진 반장  
인사 : 정용마 소장  
확인 : 12.01.21  
기간 : 12.01.20

Hebrew

986536 : מנה ומ  
תאריך יצור : 24/1/2010  
בתוקף עד : 08/3/2010  
חלב

# Printing capabilities ■ ■ ■

|                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>2 printing modes</b>                                                                                                           | <b>STANDARD SPEED MODE</b><br><b>MAX SPEED: 0.60 m/s</b><br>Standard speed mode, G Head                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                         | <b>HIGH SPEED MODE</b><br><b>MAX SPEED: 1.48 m/s</b><br>High speed mode, G Head                            |
| <b>3 printing resolutions</b>                                                                                                     | <b>2 LINES - 7 DOTS</b><br><b>G HEAD - 2.8 DOTS/MM</b><br>G Head                                                                                                                                                                                                                                                                              | <b>2 LINES - 7 DOTS</b><br><b>M HEAD - 4.5 DOTS/MM</b><br>M Head                                                                                                                                                                                                                                                                                        | <b>2 LINES - 7 DOTS</b><br><b>P HEAD - 7 DOTS/MM</b><br>P Head                                             |
| <b>Multi-line</b>                                                                                                                 | <b>9000 SERIES</b><br><b>CIJ PRINTERS</b><br><b>4 LINES - 7 DOTS</b><br><b>G HEAD</b><br><br>Single-jet, G Head                                                                                                                                                                                                                               | <b>MANUFACTURED</b><br><b>LE 08/09</b><br><b>LE 08/12</b><br><b>AM</b><br><b>FRERICADO</b><br><b>BEST BEFORE</b><br><b>AVANT LE</b><br><b>MINDENSTENS HALTBAR BIS</b><br><b>CONSUMER ANTES DE</b><br>Twin-jet, G Head                                                                                                                                   |                                                                                                            |
| <b>Capability to mix different character heights</b>                                                                              | <b>28/07</b><br>Single-jet                                                                                                                                                                                                                                                                                                                    | <b>16H59</b><br><b>ABCDE</b><br><b>L12</b><br>Twin-jet                                                                                                                                                                                                                                                                                                  | <b>EXTREME</b><br><b>ICE CREAM</b><br><b>CHOCOLATE</b><br><b>USE BY FEB 13</b><br>Twin-jet                 |
| <b>Bold characters</b>                                                                                                            | <b>7 DOTS BOLD1 7 DOTS BOLD2 7 DOTS BOLD3</b>                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                            |
| <b>Chimney characters</b>                                                                                                         | <b>16H59 UI-HZLW&gt; 16H59 UI-HZLW&gt; 16H59 UI-HZLW&gt;</b><br>Printing speed up to 8 m/s upon request                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                            |
| <b>Reversed characters</b>                                                                                                        | <b>16H59 UI-HZLW&gt; 16H59 UI-HZLW&gt; 16H59 UI-HZLW&gt;</b><br>DIN chimney characters<br><b>7 DOTS DIN MID SLOD 2</b><br>DIN characters<br><b>YNERRA92NART 2TOD 11 11 DOTS INVERSE</b><br>Transparent message<br><b>11 DOTS INVERSE</b><br>Inversed message                                                                                  |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                            |
| <b>Logos</b>                                                                                                                      | <br>markem-ima<br>24 dots / 9 dots, twin-jet                                                                                                                                                                                                               | <br>24 dots, single-jet                                                                                                                                                                                                                                             | <br>48 dots, twin-jet |
| <b>Barcodes</b><br>2/5 interleaved, Code 39,<br>Code 128, EAN 8, EAN 13,<br>GS1 128, UPCA, UPCE, HIBC,<br>HIBC LIC, ITF 6, ITF 14 | <br>16 dots, 2/5 interleaved<br><br>16 dots, code 39<br><br>11 dots / 7 dots, EAN 13 | <br>7 dots, 2/5 interleaved<br><br>9 dots / 5 dots, UPCA<br><br>16 dots / 5 dots GS1 128 |                                                                                                            |
| <b>Datamatrix</b>                                                                                                                 | <br><b>DATAMATRIX</b><br>16 X 36<br>16 dots                                                                                                                                                                                                                | <br><b>CIP: 1234567890123</b><br><b>LOT: 876543210</b><br><b>EXP: 09/01/2011</b><br><b>MAN: 09/01/2008</b><br>24 dots                                                                                                                                               |                                                                                                            |

Markem-Imaje offers a wide range of consumables developed to print on all types of substrates. The Markem-Imaje consumables' offering includes a wide choice of RoHS compliant inks: water based, ketone based and alcohol based (methanol free) inks to meet a wide variety of applications from general to very specific printing operations.

## Food



**Specific applications:**  
Thermochromic marking  
Printing directly on food (FDA)

## Beverages



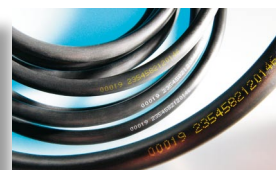
**Specific applications:**  
Washable marking for returnable bottles  
High contrast marking on opaque surface

## Hygiene and Cosmetics



**Specific applications:**  
Water- and alcohol-resistant marking  
Adhesion onto PE packaging without any pre-treatment

## Cable and extrusion industries



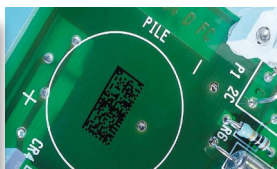
**Specific applications:**  
High contrast marking  
Water- and alcohol-resistant marking  
Resistant to thermal variations  
Non migrating and light fast marking

## Pharmaceuticals



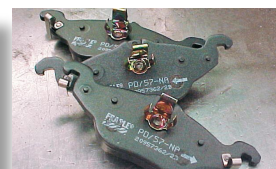
**Specific applications:**  
Non migrating and light fast marking  
Marking directly onto tablets

## Electronics



**Specific applications:**  
Alcohol-resistant marking  
High temperature resistance

## Automotive and aerospace industries



**Specific applications:**  
Certified by the leading companies in the sector  
Vulcanizing marking

To learn more, visit [www.markem-imaje.com](http://www.markem-imaje.com)